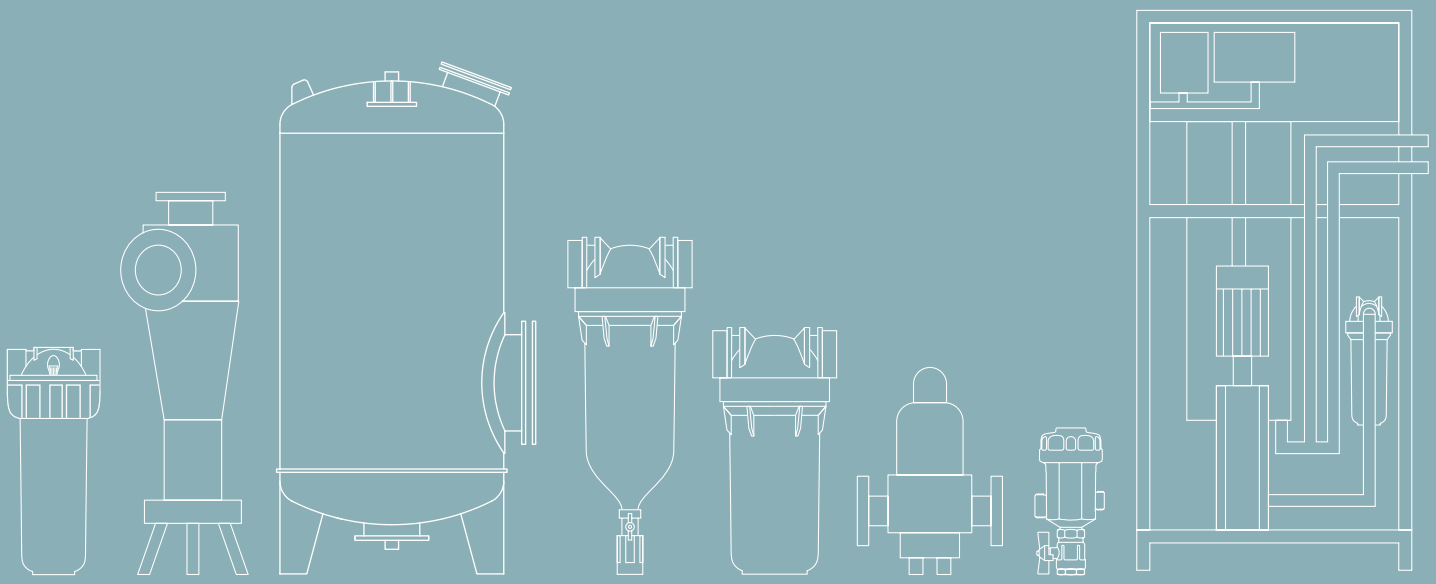
ATLAS FILTRI®
improving water



Industrial**Engineering**

GENERAL CATALOGUE

- REVERSE OSMOSIS
- SOFTENERS
- MEDIA FILTERS
- UV DISINFECTION SYSTEMS
- DOSING PUMPS
- CHEMICALS
- PROFESSIONAL FILTRATION

ATLAS FILTRI®
improving water

WE VALUE WHAT REALLY MATTERS.

WATER.

IMPROVING WATER: that's what we do, that's what we are committed to.

We develop water filtration and treatment systems for domestic, commercial and industrial use, constantly seeking innovative solutions **to improve water quality and enrich everyone's lives.**

Quality and **care** guide our decisions today and tomorrow.
Potential is what we strive to realize every day.
Success is the effectiveness of our work.

We are dedicated to the development and design of **solutions to water challenges**, with a unique Italian style. This deep passion has enabled us to obtain patents and international certifications for our products, renowned for their ease of use and reliability.

We offer a complete range of solutions, services and products in every industrial and civil sector of treatment of prime water. After a detailed analysis, we design and build custom solutions and specialized plants, using the most suitable and efficient materials to ensure the required capacities and flows, and to meet specific design and space requirements. Expert technicians test and start up the plants, train internal staff and, if required, provide a scheduled maintenance service for the equipment.
Our extensive experience enables us to work with a diverse range of clients, including leading companies in the chemical, pharmaceutical, food and automotive sectors.

Atlas Filtri, since 1975:
we are committed to providing solutions that improve water,
evolving while remaining true to ourselves.

Atlas Filtri has achieved major Company and Products certifications.

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV
ISO 9001 • ISO 14001
ISO 45001

prodotto conforme a D.M. 25/2012

Attestation de Conformité Sanitaire ACS

WaterMark

EAC

UPC C ®

IAPMO R&T WATER QUALITY PLATINUM SEAL

Atlas Filtri is an active member of major world water organizations.

ASSOCIATA

AQUA40ITALIA
ASSOCIAZIONE COSTRUTTORI TRATTAMENTI ACQUE PRIMARIE

FEDERATA

ANIMA CONFINDUSTRIA MECCANICA VARIA

MEMBER Water Quality ASSOCIATION

IWA

AfWA/AAE

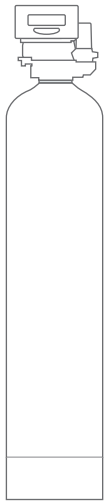
SAN!C® ANTIMICROBIAL
WITH BUILT-IN ANTIMICROBIAL PRODUCT PROTECTION

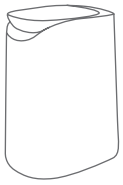
Atlas Filtri research and technology result also in the production of filter housings and cartridges with built-in antimicrobial product protection.
Sanic is a brand of Atlas Filtri S.r.l.

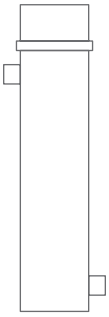
POWERED BY MICROBAN®

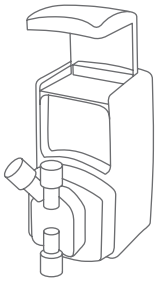
Microban® is a registered trademark of Microban Products Company.
Contains Microban® silver phosphate glass antimicrobial technology to help prevent microbial growth on the surface of the product.

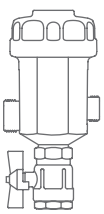
INDEX











REVERSE OSMOSIS

Direct Osmosis is a phenomenon that happens normally in nature, for instance in the cells of all living organisms, and it is the process where with two solutions of different concentration divided by a semi-permeable membrane (that is allowing water but no salts to go through), the more diluted solution tends to move naturally towards the more concentrated solution till the concentration of the two solutions becomes the same; the pressure created on the membrane because of this flow is called Osmotic Pressure.

Exploiting this principle, it is possible to reverse the process by applying a similar but adverse pressure to the concentrated solution to obtain from it a solution of lower concentration: this process is called Reverse Osmosis.

The osmotic membrane carrying out the best filtering level achievable, behaves like a barrier not only against the salts and inorganic substances making up the saline composition of the water, but also against organic substances such as pesticides, pyrogens, viruses and bacteria; a nominal rejection (reduction capacity) of 100% can be reached with bacteria. The bigger the difference between the pressure applied and the osmotic pressure, the bigger is the quantity of water produced per unit of surface of semi-permeable membrane.
The supply pressure required varies according to the type of water and salinity to be treated (therefore according to the relative osmotic pressure to overcome):

- System water: from 2-3 up to 18-20 bar
- Brackish water: from 7-8 up to 34-40 bar
- Sea water: from 50-55 up to 70-85 bar

The most suitable membrane (as far as type and dimension are concerned) must be chosen for each system, following a modular criterion, so that the chosen membrane is arranged following a system of elements in series and in parallel.
A reverse osmosis membrane cannot remove 100% of salts (even if today 99.5% can be achieved) and cannot treat 100% of the supplied solution, therefore a reverse osmosis system has a Supply, a Product (also called Permeate) and a Discharge (also called Reject or Concentrate).
These days reverse osmosis technology has undergone such quick development that compact, simple, versatile systems are achieved, characterized by constant output, both in terms of water produced and its quality.
No civil or industrial business exists that can do without specifically treated water; from the water for boilers that must have precise chemical-physical specifications to process water (chemical and pharmaceutical, food, drink industries, etc.) that must adhere to stringent production requirements, the possibilities for use of the reverse osmosis process can be considered endless.
In this sector too, reverse osmosis technology has conquered a leading role thanks to its adaptability, cost-effectiveness and running simplicity.

Note: performances can be different at different operating conditions. Approx differences can be:
- flow rate permeate/temperature: 3÷3,5% each °C
- flow rate permeate/TDS: 5÷10% every 500 ppm

- Water analysis parameters used for the performance evolution: the values indicated between parenthesis are the "indicator parameters" of the Annex 1 - Council Directive 83/98/EC.

PARAMETER		Value	Limit
temperature	°C	20	
turbidity	NTU	0,4	(1)
hydrogen ion concentration	pH	7,5	(6.5 ÷ 9.5)
electrical conducivity at 20°C	µS/cm	650	(2500)
total hardness in french degrees		27,1	(15 ÷ 50)
dry residue	mg/l	430	
Kübel oxidability	mg/l	< 0,5	(5.0)
calcium	mg/l	68,3	
magnesium	mg/l	24,5	
sodium	mg/l	4,0	(200)
potassium	mg/l	1,0	
chlorides	mg/l	8	(250)
nirates	mg/l	17	50
sulphates	mg/l	14	(250)
ammonium	mg/l	< 0,05	(0.50)
nitrites	mg/l	< 0,02	0.50
fluorides	mg/l	< 0,1	1.50
residual chlorine	mg/l	0,02	(0.2)
total phenols	µg/l	< 0,05	
total cyanides	µg/l	< 0,5	50
total chlorinates solvents	µg/l	1	10
thriolametanes	µg/l	3	30
pesticides (single compound)	µg/l	< 0,10	0.10
total pesticides	µg/l	< 0,50	0.50
benzene	µg/l	< 0,2	1.0
toluene, xilene, alchilbenzenes	µg/l	< 0,2	
arsenic	µg/l	< 1	10
cadmium	µg/l	< 0,1	5,0
total chrome	µg/l	1	50
total iron	µg/l	5	(200)
manganese	µg/l	< 1	(50)
nickel	µg/l	< 1	20
lead	µg/l	< 1	10
copper	mg/l	< 0,1	1,0
total Coliforms in 100 ml		0	(0)
Escherichia coli in 100 ml		0	0
Enterococci in 100 ml		0	0

MODELS

DESCRIPTION	MODEL	PRODUCTION max l/h	n° MEMBRANES	MEMBRANES TYPE
RO 25.Mini.DGT		25	1	2012
RO 40.Mini.DGT		40	2	2012
RO 80.Mini.DGT		80	2	2012
RO 40.DGT	RO.1.2521	40	1	2521
RO 80.DGT	RO.2.2521	80	2	2521
RO 120.DGT	RO.3.2521	120	3	2521
RO 40	RO.1.2521	40	1	2521
RO 80	RO.2.2521	80	2	2521
RO 120	RO.3.2521	120	3	2521
RO 200	RO.2.2540	200	2	2540
RO 300	RO.3.2540	300	3	2540
RO 400	RO.4.2540	400	4	2540
RO 500	RO.2.4040	500	2	4040
RO 750	RO.3.4040	750	3	4040
RO 1000	RO.4.4040	1000	4	4040
RO 1500	RO.6.4040	1500	6	4040
RO 2000	RO.8.4040	2000	8	4040
RO 2500	RO.9.4040	2500	9	4040
RO 3300	RO.3.8040	3300	3	8040
RO 4400	RO.4.8040	4400	4	8040
RO 6600	RO.6.8040	6600	6	8040
RO 10000	RO.9.8040	10000	9	8040
RO 13500	RO.12.8040	13500	12	8040
RO 17200	RO.15.8040	17200	15	8040
RO 20000	RO.18.8040	20000	18	8040

- **Domestic uses:** cleaning-up of drinking water, elimination of any smells and tastes connected to the presence of chlorine or chlorine derivatives, pesticides, insecticides, fungicides, heavy metals, micro-organisms, strong reduction in salt content.
- **Technical uses:** in all processes where demineralized water is used, production of drinking water from wells or sources with values within their operational conditions.

NOTES: Systems are suitable to treat water with certain chemical-physical and microbiological characteristics that might require pre-treatments, so it's always necessary to have a complete analysis of the water to be treated.

CONTROL PANELS

LDOSIN CONTROL PANEL

- IP55 electrical box
- Built with microprocessors and fitted with a digital display
- Digital conductivity meter with LCD display to read the conductivity of the feed water and the water produced
- Alarm with visual descriptive display of the kind of problem: feed water low pressure / permeator supply high pressure / permeate high conductivity / pump thermal protection operation
- Working hours display with maintenance block at “x” hours
- Fluxing automatic management timed and at each cycle stop
- Storage tank level management
- Clean contact in exchange for external alarm signal
- Possibility of pre-treatment feedback (softener / carbon filter)
- Possibility of feeding an antiscalant metering pump (optional)
- Multi-languages display (5 languages)

LDOSIN PLUS/PLC CONTROL PANEL

- Pre-assembled control panel mod. LDOSIN PLUS - large LCD display and programming encoder knob (3 to 9 membrane models)
- Fibreglass control panel with SIEMENS PLC and operator panel + dedicated software (12 to 18 membrane models)
- Soft start for high pressure pump motors (12 to 18 membrane models)
- High conductivity alarms (inlet-outlet) / minimum pressure / maximum pressure - controlled from LDOSIN panel
- On-screen alarm for thermal pump protection intervention
- Set-up for 1 or 2 level system connection (from storage tank)
- Possibility to operate in manual mode with command for every single item
- Possibility of pre-treatment feedback (softener/carbon filter)
- Automatic supply dosing control
- Possibility of start / stop from external signal
- NC/NO contact for cumulative alarm external signal
- Hour meter for total pump operating hours display
- Possibility to enter hour-based maintenance message (programmable value)
- Possibility to enter an operator password
- Quick on-screen indications of the system operating status

RO25.Mini.DGT - RO40.Mini.DGT

Permeate production 25-40 litres/hour

COLDWATER

PRE-TREATMENT SECTION
Made with a 10” MONO filtration stage: carbon cartridge with 5 micron filtration rate.

PRESSURIZATION SECTION
Made up of a brass rotary vane electric pump with by-pass.

PERMEATION SECTION
Made up of high-productivity and low-consumption reverse osmosis permeators (low energy).
The membranes are closed in reinforced polypropylene vessel.
(RO25.Mini.DGT: 1 membrane in 1 vessel; RO25.Mini.DGT: 2 membranes in 2 vessels).

HOSES
Feeding, high pressure and discharge hoses 12 bar pressure resisant material.

CONTROL AND HYDRAULIC CONTROL SECTION
- Pressure gauge after the 5 micron filter.
- Membranes inlet pressure gauge
- Flow restrictor for the adjustment of the draining flow
- Protection pressure switch with system lock for low supply water level
- Two pressure switches on permeate line for automatic system start/stop (permeate working pressure 2÷4 bar)
- Membrane solenoid valve for system supply management
- Conductivity probes for permeate
- Concentrate recirculation in the feed inlet line

SUPPORT FRAME built in AISI 304 stainless steel section complete with brackets, vessel and hose fixing collars, valves and connections, leads for the various uses, electric control panel.

OPTIONAL
- START/STOP with floating level.
- Pressurized storage tank in plastic suitable for food contact
- Metal pressurized storage tank with stainless steel fittings

CONTROL PANEL
LDOSIN

RO25.Mini.DGT - RO40.Mini.DGT

	NEA0500036 RO25.Mini.DGT	NEA0500037 RO40.Mini.DGT
Permeate ± 10% (T = 18°C)	25 l/h	40 l/h
Final salt rejection	≤ 93 %	≤ 93 %
Maximum recovery with softened water	40 ÷ 50%	40 ÷ 50%
TDS	≤ 750 mg/l	≤ 750 mg/l
SDI	≤ 3	≤ 3
Turbidity	1 NTU max	1 NTU max
Hardness	< 15 °f	< 15 °f
Free chlorine in	< 0,25 mg/l	< 0,25 mg/l
Bacteria	absent	absent
COD	<10 mg/l	<10 mg/l
TOC	<3 mg/l	<3 mg/l
Iron	<0,05 mg/l	<0,05 mg/l
Manganese	<0,05 mg/l	<0,05 mg/l
Aluminum	<0,05 mg/l	<0,05 mg/l
Oils and grease	<0,1 mg/l	<0,1 mg/l
SiO2	<15 mg/l	<15 mg/l

CHARACTERISTICS		
Min/max feed water pressure	2 ÷ 5 bar	
Min/max feed water temperature	5°C ÷ 35°C	
Feed water minimum flow rate	150 l/h	
Min/max ambient temperature	5 °C ÷ 40 °C	
Operating pressure	< 10 bar	
Total installed power	300 W	
Monophase electrical supply	230 V / 50 Hz (60 Hz optional)	
Supply connection	G 1/2” F	
Permeate / Discharge connections	Ø 10 mm - Ø 8 mm	
Maximum size	420 x 235 x H 580 mm	420 x 235 x H 580 mm

RO80.Mini.DGT

Permeate production 80 litres/hour

COLDWATER

PRE-TREATMENT SECTION
Made with a 10” MONO filtration stage: carbon cartridge with 5 micron filtration rate.

PRESSURIZATION SECTION
Made up of a brass rotary vane electric pump with by-pass.

PERMEATION SECTION
Made up of high-productivity and low-consumption reverse osmosis permeators (low energy). The membranes are closed in reinforced polypropylene vessel.
(RO80.Mini.DGT: 2 membranes in 2 vessels).

HOSES
Feeding, high pressure and discharge hoses 12 bar pressure resisant material.

CONTROL AND HYDRAULIC CONTROL SECTION
- Pressure gauge after the 5 micron filter.
- Membranes inlet pressure gauge
- Flow restrictor for the adjustment of the draining flow
- Protection pressure switch with system lock for low supply water level
- Two pressure switches on permeate line for automatic system start/stop (permeate working pressure 2÷4 bar)
- Membrane solenoid valve for system supply management
- Conductivity probes for permeate
- Concentrate recirculation in the feed inlet line

SUPPORT FRAME built in AISI 304 stainless steel section complete with brackets, vessel and hose fixing collars, valves and connections, leads for the various uses, electric control panel.

OPTIONAL
- START/STOP with floating level
- Pressurized storage tank in plastic suitable for food contact
- Metal pressurized storage tank with stainless steel fittings

CONTROL PANEL
LDOSIN

RO80.Mini.DGT

	NEA0500038 RO80.Mini.DGT
Permeate ± 10% (T = 18°C)	80 l/h
Final salt rejection	≤ 93 %
Maximum recovery with softened water	45 ÷ 50%
TDS	≤ 750 mg/l
SDI	≤ 3
Turbidity	1 NTU max
Hardness	< 15 °f
Free chlorine in	< 0,25 mg/l
Bacteria	absent
COD	<10 mg/l
TOC	<3 mg/l
Iron	<0,05 mg/l
Manganese	<0,05 mg/l
Aluminum	<0,05 mg/l
Oils and grease	<0,1 mg/l
SiO2	<15 mg/l

CHARACTERISTICS	
Min/max feed water pressure	2 ÷ 5 bar
Min/max feed water temperature	5°C ÷ 35°C
Feed water minimum flow rate	200 l/h
Min/max ambient temperature	5 °C ÷ 40 °C
Operating pressure	< 10 bar
Total installed power	300 W
Monophase electrical supply	230 V / 50 Hz (60 Hz optional)
Supply connection	G 1/2” F
Permeate / Discharge connections	Ø 10 mm - Ø 8 mm
Maximum size	420 x 235 x H 580 mm

RO40.DGT - RO80.DGT - RO120.DGT

Permeate production 40-80-120 litres/hour

COLDWATER

PRE-TREATMENT SECTION
Made with a 10" DUO filtration stage: first stage carbon cartridge, second stage cartridge with 5 micron filtration rate.

PRESSURIZATION SECTION
Made up of a brass rotary vane electric pump with by-pass.

PERMEATION SECTION
Made up of high-productivity and low-consumption reverse osmosis permeators (low energy).
The membranes are closed in PRFV vessels capable of withstanding operating pressures of up to 21 bar.
(RO40.DGT: 1 membrane in 1 vessel; RO80.DGT: 2 membranes in 2 vessels; RO120.DGT: 3 membranes in 3 vessels).

HOSES
Feeding, high pressure and discharge hoses 12 bar pressure resisant material.

CONTROL AND HYDRAULIC CONTROL SECTION
- Pressure gauge after the 5 micron filter, feed pressure at the membranes
- Protection pressure switch with system lock for low supply water level
- Protection pressure switch with system lock for permeator supply high pressure
- Membrane solenoid valve for system supply management
- Membrane solenoid valves for module fluxing management
- Conductivity probes for permeate
- Concentrate recirculation in the feed inlet line
- Start/stop floating level

SUPPORT FRAME built in AISI 304 stainless steel section complete with brackets, vessel and hose fixing collars, valves and connections, leads for the various uses, electric control panel.

OPTIONAL
- UV Lamp on permeate line.
- START/STOP with pressure switches.
- Blending line for final conductivity regulation.

This models can be provided with different types of membranes with specific salt rejections.

RO40.DGT - RO80.DGT - RO120.DGT

	NEA0500023 RO.1.2521 DGT (RO40)	NEA0500024 RO.2.2521 DGT (RO80)	NEA0500025 RO.3.2521 DGT (RO120)
Permeate ± 10% (T = 18°C)	40 l/h	80 l/h	120 l/h
Final salt rejection	≥ 95 %	≥ 95 %	≥ 95 %
Maximum recovery with softened water	30 ÷ 35%	45 ÷ 50%	55 ÷ 60%
TDS	≤ 750 mg/l	≤ 750 mg/l	≤ 750 mg/l
SDI	≤ 3	≤ 3	≤ 3
Turbidity	1 NTU max	1 NTU max	1 NTU max
Hardness	≤ 15 °f	≤ 15 °f	≤ 15 °f
Free chlorine in	≤ 0,2 mg/l	≤ 0,2 mg/l	≤ 0,2 mg/l
Bacteria	absent	absent	absent
COD	<10 mg/l	<10 mg/l	<10 mg/l
TOC	<3 mg/l	<3 mg/l	<3 mg/l
Iron	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Manganese	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Aluminum	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Oils and grease	<0,1 mg/l	<0,1 mg/l	<0,1 mg/l
SiO2	<15 mg/l	<15 mg/l	<15 mg/l

CHARACTERISTICS			
Min/max feed water pressure	2 ÷ 5 bar	2 ÷ 5 bar	2 ÷ 5 bar
Min/max feed water temperature	5°C ÷ 35°C	5°C ÷ 35°C	5°C ÷ 35°C
Feed water minimum flow rate	400 l/h	400 l/h	400 l/h
Min/max ambient temperature	5 °C ÷ 40 °C	5 °C ÷ 40 °C	5 °C ÷ 40 °C
Operating pressure	≤ 12 bar	≤ 12 bar	≤ 12 bar
Total installed power	300 W	300 W	300 W
Monophase electrical supply (optional)	230 V / 50 Hz (60 Hz)	230 V / 50 Hz (60 Hz)	230 V / 50 Hz (60 Hz)
Supply connection	G 1/2" F	G 1/2" F	G 1/2" F
Permeate / Discharge connections	G 1/2" F - Ø 10 mm	G 1/2" F - Ø 10 mm	G 1/2" F - Ø 10 mm
Maximum size	700 x 200 x H 950	700 x 200 x H 950 mm	700 x 200 x H 950 mm

RO40 - RO80 - RO120

Permeate production 40-80-120 litres/hour

COLDWATER

PRE-TREATMENT SECTION
Made with a 10" DUO filtration unit: first stage carbon cartridge, second stage cartridge with filtration degree of 5 microns.

PRESSURIZATION SECTION
Made up of a brass rotary vane electric pump with by-pass.

PERMEATION SECTION
Made up of high-productivity and low-consumption reverse osmosis permeators (low energy).
The membranes are closed in PRFV vessels capable of withstanding operating pressures of up to 21 bar.
(RO40: 1 membrane in 1 vessel; RO80: 2 membranes in 2 vessels; RO120: 3 membranes in 3 vessels).

HOSES
Feeding, high pressure and discharge hoses in PVC PN16; permeate hoses in material suitable for pressures until 12 bar.

CONTROL AND HYDRAULIC CONTROL SECTION
- Pressure gauge after the 5 micron filter, feed pressure at the membranes
- Permeate, concentrate variable area flowmeter
- Fluxing, recirculation and discharge flow regulators
- Protection pressure switch with system lock for low supply water level
- Protection pressure switch with system lock for permeator supply high pressure
- Membrane solenoid valve for system supply management
- Membrane solenoid valves for module fluxing management
- Conductivity probes for permeate
- Start/stop floating level

FRAME built in AISI 304 stainless steel section complete with brackets, vessel and hose fixing collars, valves and connections, leads for the various uses, electric control panel.

OPTIONAL
- UV Lamp on permeate line.
- Antiscalant dosing system.
- START/STOP with pressure switch.

CONTROL PANEL
LDOSIN

This models can be provided with different types of membranes with specific salt rejections.

RO40 - RO80 - RO120

	NEA0500003 RO.1.2521 (RO40)	NEA0500004 RO.2.2521 (RO80)	NEA0500005 RO.3.2521 (RO120)
Permeate ± 10% (T = 20°C)	40 l/h	80 l/h	120 l/h
Final salt rejection	≥ 95 %	≥ 95 %	≥ 95 %
Maximum recovery with softened water	20 ÷ 35%	25 ÷ 50%	35 ÷ 60%
TDS	≤ 1000 mg/l	≤ 1000 mg/l	≤ 1000 mg/l
SDI	≤ 3	≤ 3	≤ 3
Turbidity	1 NTU max	1 NTU max	1 NTU max
Hardness	≤ 1 °f	≤ 1 °f	≤ 1 °f
Free chlorine in	≤ 0,2 mg/l	≤ 0,2 mg/l	≤ 0,2 mg/l
Bacteria	absent	absent	absent
COD	<10 mg/l	<10 mg/l	<10 mg/l
TOC	<3 mg/l	<3 mg/l	<3 mg/l
Iron	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Manganese	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Aluminum	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Oils and grease	<0,1 mg/l	<0,1 mg/l	<0,1 mg/l
SiO2	<15 mg/l	<15 mg/l	<15 mg/l

CHARACTERISTICS			
Min/max feed water pressure	2 ÷ 5 bar	2 ÷ 5 bar	2 ÷ 5 bar
Min/max feed water temperature	5°C ÷ 35°C	5°C ÷ 35°C	5°C ÷ 35°C
Feed water minimum flow rate	400 l/h	400 l/h	400 l/h
Min/max ambient temperature	5 °C ÷ 40 °C	5 °C ÷ 40 °C	5 °C ÷ 40 °C
Operating pressure	≤ 12 bar	≤ 12 bar	≤ 12 bar
Total installed power	300 W	300 W	300 W
Monophase electrical supply (optional)	230 V / 50 Hz (60 Hz)	230 V / 50 Hz (60 Hz)	230 V / 50 Hz (60 Hz)
Supply connection	G 1/2" F	G 1/2" F	G 1/2" F
Permeate / Discharge connections	G 1/2" F	G 1/2" F	G 1/2" F
Maximum size	700 x 410 x H 1420 mm	700 x 410 x H 1420 mm	700 x 410 x H 1420 mm

RO200 - RO300 - RO400

Permeate production 200-300-400 litres/hour

COLDWATER

PRE-TREATMENT SECTION
Made with a 10" DUO filtration group: first stage carbon cartridge; second stage cartridge with 5 micron filtration rate.

PRESSURIZATION SECTION
Made up of a brass rotary vane electric pump with by-pass.

PERMEATION SECTION
Made up of high-productivity and low-consumption reverse osmosis permeators (low energy).
The membranes are closed in PRFV vessels capable of withstanding operating pressures of up to 21 bar. (RO200: 2 membranes in 2 vessels; RO300: 3 membranes in 3 vessels; RO400: 4 membranes in 4 vessels).

HOSES
Feeding, high pressure and discharge hoses in PVC PN16; permeate hoses in material suitable for pressures until 12 bar.

CONTROL AND HYDRAULIC CONTROL SECTION
- Pressure gauge after the 5 micron filter, feed pressure at the membranes, pressure after the modules
- Permeate, concentrate and recirculation flowmeter
- Fluxing, recirculation and discharge flow regulators
- Protection pressure switch with system lock for low supply water level
- Protection pressure switch with system lock for permeator supply high pressure
- Membrane solenoid valve for system supply management
- Membrane solenoid valves for module fluxing management
- Conductivity probes for feed water and permeate
- Start/stop floating level
- Antiscalant chemical injection set-up

FRAME built in AISI 304 stainless steel section complete with brackets, vessel and hose fixing collars, valves and connections, leads for the various uses, electric control panel.

OPTIONAL
- UV Lamp on permeate line.
- Antiscalant dosing system.
- START/STOP with pressure switch.
- Blending line for final conductivity regulation.
- UL marked componentsl

CONTROL PANEL
LDOSIN

This models can be provided with different types of membranes with specific salt rejections.

RO200 - RO300 - RO400

	NEA0500006 RO.2.2540 (RO200)	NEA0500007 RO.3.2540 (RO300)	NEA0500012 RO.4.2540 (RO400)
Permeate ± 10% (T = 20°C)	180 l/h	270 l/h	360 l/h
Final salt rejection	≥ 95 %	≥ 95 %	≥ 95 %
Maximum recovery with softened water	30 ÷ 50 (%)	50 ÷ 70 (%)	50 ÷ 75 (%)
TDS	≤ 1000 mg/l	≤ 1000 mg/l	≤ 1000 mg/l
SDI	≤ 3	≤ 3	≤ 3
Turbidity	1 NTU max	1 NTU max	1 NTU max
Hardness	≤ 1 °f	≤ 1 °f	≤ 1 °f
Free chlorine in	≤ 0,2 mg/l	≤ 0,2 mg/l	≤ 0,2 mg/l
Bacteria	absent	absent	absent
COD	<10 mg/l	<10 mg/l	<10 mg/l
TOC	<3 mg/l	<3 mg/l	<3 mg/l
Iron	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Manganese	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Aluminum	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Oils and grease	<0,1 mg/l	<0,1 mg/l	<0,1 mg/l
SiO2	<15 mg/l	<15 mg/l	<15 mg/l

CHARACTERISTICS			
Min/max feed water pressure	2 ÷ 5 bar	2 ÷ 5 bar	2 ÷ 5 bar
Min/max feed water temperature	5°C ÷ 35°C	5°C ÷ 35°C	5°C ÷ 35°C
Feed water minimum flow rate	800 l/h	800 l/h	800 l/h
Min/max ambient temperature	5 °C ÷ 40 °C	5 °C ÷ 40 °C	5 °C ÷ 40 °C
Operating pressure	≤ 12 bar	≤ 12 bar	≤ 12 bar
Total installed power	600 W	600 W	600 W
Monophase electrical supply (optional)	230 V / 50 Hz (60 Hz - Trifase)	230 V / 50 Hz (60 Hz - Trifase)	230 V / 50 Hz (60 Hz - Trifase)
Supply connection	G 3/4" F	G 3/4" F	G 3/4" F
Permeate / Discharge connections	G 1/2" F	G 1/2" F	G 1/2" F
Maximum size	760 x 520 x H 1550 mm	760 x 520 x H 1550 mm	760 x 520 x H 1550 mm

RO500 - RO750 - RO1000

Permeate production 500-750-1000 litres/hour

COLDWATER

PRE-TREATMENT SECTION
Made with a 20" DUPLEX filtration group: first stage carbon cartridge; second stage cartridge with 5 micron filtration rate.

PRESSURIZATION SECTION
Made up of an AISI 304 stainless steel vertical multi-stage centrifugal electric pump.

PERMEATION SECTION
Made up of high-productivity and low-consumption reverse osmosis permeators (low energy).
The membranes are closed in PRFV vessels capable of withstanding operating pressures of up to 21 bar.
(RO500: 2 membranes in 2 vessels; RO750: 3 membranes in 3 vessels; RO1000: 4 membranes in 4 vessels).

HOSES
Feeding, permeate, high pressure and discharge hoses in PVC PN16.

CONTROL AND HYDRAULIC CONTROL SECTION
- Pressure gauge after the 5 micron filter, feed pressure at the membranes, pressure after the modules
- Permeate, concentrate and recirculation flowmeter
- Fluxing, recirculation and discharge flow regulators
- Protection pressure switch with system lock for low supply water level
- Protection pressure switch with system lock for permeator supply high pressure
- Membrane solenoid valve for system supply management
- Membrane solenoid valves for module fluxing management
- Conductivity probes for feed water and permeate
- Start/stop floating level
- Antiscalant chemical injection set-up

FRAME built in AISI 304 stainless steel section complete with brackets, vessel and hose fixing collars, valves and connections, leads for the various uses, electric control panel.

OPTIONAL
- UV Lamp on permeate line.
- Antiscalant dosing system.
- START/STOP with pressure switch.
- Blending line for final conductivity regulation.
- XL Membranes for increased permeate production up to +20%.
- UL marked components
- High pressure piping made of stainless steel AISI 316

CONTROL PANEL
LDOSIN

This models can be provided with different types of membranes with specific salt rejections.

RO500 - RO750 - RO1000

	NEA0500008 RO.2.4040 (RO500)	NEA0500009 RO.3.4040 (RO750)	NEA0500010 RO.4.4040 (RO 1000)
Permeate ± 10% (T = 20°C)	500 l/h	750 l/h	1000 l/h
Final salt rejection	≥ 95 %	≥ 95 %	≥ 95 %
Maximum recovery with softened water	30 ÷ 50 (%)	50 ÷ 70 (%)	50 ÷ 75 (%)
TDS	≤ 1000 mg/l	≤ 1000 mg/l	≤ 1000 mg/l
SDI	≤ 3	≤ 3	≤ 3
Turbidity	1 NTU max	1 NTU max	1 NTU max
Hardness	≤ 1 °f	≤ 1 °f	≤ 1 °f
Free chlorine in	≤ 0,2 mg/l	≤ 0,2 mg/l	≤ 0,2 mg/l
Bacteria	absent	absent	absent
COD	<10 mg/l	<10 mg/l	<10 mg/l
TOC	<3 mg/l	<3 mg/l	<3 mg/l
Iron	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Manganese	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Aluminum	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Oils and grease	<0,1 mg/l	<0,1 mg/l	<0,1 mg/l
SiO2	<15 mg/l	<15 mg/l	<15 mg/l

CHARACTERISTICS			
Min/max feed water pressure	2 ÷ 5 bar	2 ÷ 5 bar	2 ÷ 5 bar
Min/max feed water temperature	5°C ÷ 35°C	5°C ÷ 35°C	5°C ÷ 35°C
Feed water minimum flow rate	2000 l/h	2000 l/h	2000 l/h
Min/max ambient temperature	5 °C ÷ 40 °C	5 °C ÷ 40 °C	5 °C ÷ 40 °C
Operating pressure	≤ 12 bar	≤ 12 bar	≤ 12 bar
Total installed power	1,1 ÷ 1,5 kW	1,1 ÷ 1,5 kW	1,1 ÷ 1,5 kW
Three phases electrical supply (optional)	380 V / 50 Hz (60 Hz - Monophase)	380 V / 50 Hz (60 Hz - Monophase)	380 V / 50 Hz (60 Hz - Monophase)
Supply connection	G 1" F	G 1" F	G 1" F
Permeate / Discharge connections	G 3/4" F	G 3/4" F	G 3/4" F
Maximum size	900 x 700 x H 1550 mm	900 x 700 x H 1550 mm	900 x 700 x H 1550 mm

RO1500 - RO2000 - RO2500

Permeate production 1500-2000-2500 litres/hour

COLDWATER

PRE-TREATMENT SECTION
Made with a 20" BIG filtration group: cartridge with 5 micron filtration rate.

PRESSURIZATION SECTION
Made up of an AISI 304 stainless steel vertical multi-stage centrifugal electric pump.

PERMEATION SECTION
Made up of high-productivity and low-consumption reverse osmosis permeators (low energy).
The membranes are closed in PRFV vessels capable of withstanding operating pressures of up to 21 bar.
(RO1500: 6 membranes in 3 vessels; RO2000: 8 membranes in 4 vessels; RO2500: 8 membranes in 4 vessels).

HOSES
Feeding, permeate, high pressure and discharge hoses in PVC PN16.

CONTROL AND HYDRAULIC CONTROL SECTION
- Pressure gauge before and after the 5 micron filter, feed pressure at the membranes, pressure after the modules, permeate line
- Permeate, concentrate and recirculation flowmeter
- Fluxing, recirculation and discharge flow regulators
- Protection pressure switch with system lock for low supply water level
- Protection pressure switch with system lock for permeator supply high pressure
- Membrane solenoid valve for system supply management
- Membrane solenoid valves for module fluxing management
- Conductivity probes for feed water and permeate
- Chemical cleaning external unit set-up

FRAME built in AISI 304 stainless steel section complete with brackets, vessel and hose fixing collars, valves and connections, leads for the various uses, electric control panel.

OPTIONAL
- UV Lamp on permeate line.
- Antiscalant dosing system.
- START/STOP with pressure switch on the permeate line.
- Blending line for final conductivity regulation.
- UL marked components
- High pressure piping made of stainless steel AISI 316.
- Control panel with Siemens PLC and software.

CONTROL PANEL
LDOSIN

This models can be provided with different types of membranes with specific salt rejections.

RO1500 - RO2000 - RO2500

	NEA0500029 RO.6.4040 (RO 1500)	NEA0500030 RO.8.4040 (RO 2000)	NEA0500031 RO.8.4040XL (RO 2500)
Permeate ± 10% (T = 18°C)	1500 l/h	2000 l/h	2500 l/h
Final salt rejection	≥ 95 %	≥ 95 %	≥ 95 %
Maximum recovery with softened water	65 ÷ 75%	65 ÷ 75%	65 ÷ 75%
TDS	≤ 1000 mg/l	≤ 1000 mg/l	≤ 1000 mg/l
SDI	≤ 3	≤ 3	≤ 3
Turbidity	1 NTU max	1 NTU max	1 NTU max
Hardness	≤ 1 °f	≤ 1 °f	≤ 1 °f
Free chlorine in	≤ 0,1 mg/l	≤ 0,1 mg/l	≤ 0,1 mg/l
Bacteria	absent	absent	absent
COD	<10 mg/l	<10 mg/l	<10 mg/l
TOC	<3 mg/l	<3 mg/l	<3 mg/l
Iron	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Manganese	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Aluminum	<0,05 mg/l	<0,05 mg/l	<0,05 mg/l
Oils and grease	<0,1 mg/l	<0,1 mg/l	<0,1 mg/l
SiO2	<15 mg/l	<15 mg/l	<15 mg/l
CHARACTERISTICS			
Min/max feed water pressure	2 ÷ 5 bar	2 ÷ 5 bar	2 ÷ 5 bar
Min/max feed water temperature	5°C ÷ 35°C	5°C ÷ 35°C	5°C ÷ 35°C
Feed water minimum flow rate	2350 l/h	3100 l/h	3850 l/h
Min/max ambient temperature	5 °C ÷ 40 °C	5 °C ÷ 40 °C	5 °C ÷ 40 °C
Operating pressure	≤ 12 bar	≤ 12 bar	≤ 12 bar
Total installed power	1,5 kW	1,5 kW	2,2 kW
Three phases electrical supply	3 x 380V / 50Hz (60 Hz optional)	3 x 380V / 50Hz (60 Hz optional)	3 x 380V / 50Hz (60 Hz optional)
Supply connection	1"	1"	1"
Permeate / Discharge connections	3/4"	3/4"	3/4"
Maximum size mm	2450 x 700 x H 1550	2450 x 700 x H 1550	2450 x 700 x H 1550

BIG EQUIPMENTS

Permeate production 3000 - 6000 - 9000 - 12000 - 15000 - 18000 litres/hour

COLDWATER

Atlas Filtri Engineering design and provide big reverse osmosis systems
(also for treatment of breackish water), customized in every detail upon specific requirements.

This models can be provided with different types of membranes with specific salt rejections.

BIG EQUIPMENTS

	NEA0500016 RO.3.8040 (RO3000)	NEA0500017 RO.4.8040* (RO4000)	NEA0500018 RO.6.8040* (RO6000)	NEA0500019 RO.9.8040* (RO9000)	NEA0500020 RO.12.8040* (RO12000)	NEA0500021 RO.15.8040* (RO15000)	NEA0500022 RO.18.8040* (RO18000)
Water produced l/h (t=18°C - TDS 1000ppm)	3300	4400	6600	10000	13500	17200	20000
Feed water l/h	4400÷6600	5900÷8800	8800÷13000	13200÷20000	18000÷24500	22900÷32000	26500÷36000
Membranes number	3	4	6	9	12	15	18
Membranes diameter	8"	8"	8"	8"	8"	8"	8"
Power (kW)	4	4	5,5	7,5	11	11	15
Connections IN	1"1/2	1"1/2	2	DN65	DN65	DN80	DN80
Connections OUT - DRAIN	1"1/4-1"1/4	1"1/4-1"1/4	1"1/2-1"1/2	2" - 2"	DN50-DN65	DN50-DN65	DN65-DN80
Final salt rejection	≥ 95% (t=18°C)						
Recovery	50 ÷ 75 %						
Max working pressure	16 bar						
Electrical supply	3x380V + N +T / 50Hz (optional 60Hz - UL control panel and components)						
Pneumatic services feeding (only for models NEA05000020÷22)	5 ÷ 7 bar						

WATER CHARACTERISTICS IN	
TDS	≤ 2500 mg/l
SDI	≤ 3
Temperature WATER / AMBIENT	5 ÷ 35°C / 5 ÷ 40°C
Pressione in alimento	2 ÷ 5 bar
Bacteria	assente
COD	≤ 10 mg/l
TOC	≤ 3 mg/l
Free chlorine	≤ 0,1 mg/l
Hardness	≤ 750 ppm di CaCO3 - feed water analysis check
Iron	≤ 0,1 mg/l
Manganese	≤ 0,05 mg/l
Aluminum	≤ 0,05 mg/l
Oils and grease	≤ 0,1 mg/l
SiO2	≤ 15 mg/l

* MODELS ON REQUEST: FOR INFORMATION PLEASE CONTACT OUR TECHNICAL OFFICE

PRE-TREATMENT SECTION
- Nr.02 - BIG - 20” container 5 micron filters (3 and 4 membrane models)
- AISI 316 stainless steel Multi-cartridge container 5 micron filter (6 to 18 membrane models)

PRESSURIZATION SECTION
- AISI 304 stainless steel vertical multi-stage pump (LOWARA)

PERMEATION SECTION
- 300 psi fibreglass membrane VESSEL
- Low energy membranes - nominal saline rejection 99.2%

HOSES
- Low pressure and permeated line consisting of PVC PN16 fittings and pipes
- High pressure line consisting of AISI 316 PN16 stainless steel fittings and pipes
- Set-up for connections of an external unit (optional) for chemical wash

CONTROL AND HYDRAULIC CONTROL SECTION
- Pressure gauges before and after 5 micron filtration
- Permeators inlet pressure gauge
- Intermediate membrane pressure gauge
- Pressure gauge downstream of permeators
- Pressure gauge on permeate line
- Supply solenoid valve / Ball valve with pneumatic actuation
- Programmable automatic flushing with solenoid valve / Ball valve with pneumatic actuation
- Adjustable recirculation with gate valve
- Recirculation flowmeter
- Adjustable draining with gate valve
- Draining flowmeter
- Permeate flowmeter
- Dosing unit for the antiscalant product (digital dosing pump + product storage container + 25/50 kg of antiscale product)
- Float, 10 metre cable, with counterweight for osmosis system start/stop
- Permeate conductivity reading (in event of permeate + blending)
- Supply conductivity reading
- Low pressure supply protection switch (against dry-running operation)
- Adjustable protective pressure switch for high pressure permeators

FRAME
- Nr. 01 AISI 304 stainless steel frame for osmosis

OPTIONAL
- AISI 316 stainless steel membrane vessel
- AISI 316 stainless steel vertical multi-stage pump (LOWARA)
- Adjustable blending with manual valve complete with solenoid valve
- Blending flow meter
- SMB product dosing unit: REDOX digital dosing pump with probe on the supply line + product storage container + 25/50 kg of SMB ANHYDROUS
- System and panel designed with possibility of supervision
- Inverter for high pressure pump motor
- Wooden box packaging fumigated according to Standard ISPM15

CONTROL PANEL
LDOSIN PLUS/PLC

SPECIAL SYSTEMS

COLDWATER

Installation examples

RO.3.8040 for industrial purposes

Special equipment RO 300
for food industries

RO 1500 for industrial purposes
(reduced area)

RO 6500 BW for treatment
of breackish water

CHEMICALS

For reverse osmosis systems

FLOCON 135

ANTISCALANT

Flocon 135 is an aqueous solution of a specialized phosphinocarboxylic acid, highly effective in controlling the deposition of inorganic scale forming salts on membrane surfaces.

Special features:

- Excellent control of carbonate and sulphate scales for cost effective operation -Compatible with all major membranes -International potable water approvals - Dispersant -

Flocon 135 is not affected by chlorine or other oxidizing biocides under normal conditions of use; it may be used in membrane systems using chlorine and sodium metabisulphite.
Flocon 135 is an aqueous solution of an organic acid and as such is corrosive in its concentrated form. Corrosion resistant dosing equipment should therefore be used. Examples of suitable materials are 316L stainless steel, or plastics such as GRP, PVC and PE.
Flocon 135 is certified to ANSI / NSF Standard 60 for use in reverse osmosis systems producing potable water.

Packaging: 25 kg (net weight) Plastic drums.

FLOCON 260 (ADR)

ANTISCALANT AND ANTIFOULANT

Flocon 260 is an aqueous solution of a specialized polycarboxylic acid, highly effective in controlling the deposition of inorganic scale forming salts and particulate fouling on membrane surfaces.

Special features:

- Excellent control of carbonate scales, sulphate and fluoride for cost effective operation - Effectively control both soluble and insoluble iron - Effective against silica fouling - Dispersant - Compatible with all major membranes - International potable water approvals

Flocon 260 is not affected by chlorine or other oxidising biocides under normal conditions of use; it may be used in membrane systems using chlorine and sodium metabisulphite. Flocon 260 is an aqueous solution of an organic acid and as such is corrosive in its concentrated form. Corrosion resistant dosing equipment should therefore be used. Examples of suitable materials are 316L stainless steel, or plastics such as GRP, PVC and PE.
Flocon 260 is certified to ANSI / NSF Standard 60 for use in reverse osmosis systems producing potable water.

Packaging: 25 kg (net weight) Plastic drums

PRAGMACLEAN 309

ANTISCALANT / SALINE LIMESCALE INHIBITOR FOR REVERSE OSMOSIS SYSTEMS

PRAGMACLEAN 309 is an aqueous solution of a phosphonocarboxylic acid and polymers that is particularly suitable for controlling limescale in reverse osmosis water purification systems. PRAGMACLEAN 309 is extremely effective for inhibiting limescale and Calcium, Barium and Strontium sulphates. The particular polymeric nature allows its good efficacy even at relatively low dosages thanks to the modification of the crystal lattices of the salts in the water.
• Very effective for inhibiting the precipitation of sulphates and carbonates • Inhibits the formation of limescale • Chlorine resistant • Easy-to-use liquid • Approved for use in drinking water according to German legislation 6.Anderungmitteilung zur Liste der Aufbereitungstoffe und Desinfektionsverfahren gemass § 11 Trinkwasserverordnung 2001, as the raw materials used comply with standard EN 15040.

Particular characteristics:

Appearance: clear colourless to slightly purple liquid - Density (g/cm2): 1.07 at 20°C - pH as is: 10.0 - Freezing point: -3°C.

Packaging: 10/25 kg plastic tanks (net weight).

PRAGMACLEAN 306

ANTISCALANT / SALINE LIMESCALE INHIBITOR FOR REVERSE OSMOSIS SYSTEMS

PRAGMACLEAN 306 is an aqueous solution of polymeric acid that is particularly suitable for controlling limescale in reverse osmosis water purification systems. PRAGMACLEAN 306 is extremely effective for inhibiting limescale and Calcium, Barium and Strontium sulphates. The particular polymeric nature allows its good efficacy even at relatively low dosages thanks to the modification of the crystal lattices of the salts in the water.
• Very effective for inhibiting the precipitation of sulphates • Insensitive to iron • Inhibits the formation of limescale • Chlorine resistant • Easy-to-use liquid.

Particular characteristics:

Appearance: clear amber liquid - Density (g/cm2): 1.32 at 20°C - pH as is: 7.0 - Freezing point: <-5°C.

Packaging: 10/25 kg polyethylene drums

FLOCLEAN MC67

ACID MEMBRANE CLEANER (ADR)

Floclean MC67 is a low pH formulation that has been designed specifically to remove metal hydroxides, calcium carbonate and other similar scales from polyamide and polysulfone membrane surfaces.

Special features:

- pH adjusted to 3.0+ 0.5 - Highly effective at ambient temperatures - Contains no surfactants and is quickly rinsed away - Contains organic acids, detergent builders and chelating agents

It can be used at temperatures from 15°C (60°F) up to the maximum recommended by the membrane manufacturer.

Packaging: 25 kg (net weight) Plastic drums

FLOCLEAN MC68

BASIC MEMBRANE CLEANER (ADR)

Floclean MC68 is a high pH formulation that has been designed specifically to remove organics, silt and other particulate deposits from polyamide, polysulfone and thin film composite membrane surfaces.

Special features:

- pH adjusted to 10+ 0.5 - Highly effective at ambient temperatures - Contains no surfactants and is quickly rinsed away - Contains detergent builders, chelating agents

It can be used at temperatures from 15°C (60°F) up to the maximum recommended by the membrane manufacturer.

Packaging: 25 kg (net weight) Plastic drums

ANHYDROUS SODIUM BISULPHITE

CHLORINE NEUTRALIZER FOR REVERSE OSMOSIS MEMBRANES

The chlorine neutralizer is a sodium bisulphite reducing formulation suitable to remove free and combined chlorine from supply water in reverse osmosis systems; as a matter of fact it is well known that in time the presence of free chlorine can ruin the membranes and affect the quality of the water produced by the osmosis systems. Thanks to the normal regular shutdowns, the neutralizer is suitable for maintaining the membranes of the reverse osmosis systems.

Packaging: 25 kg (net weight) bags

SOFTENERS

To prevent limescale build-up

The water for drinking, sanitary or technological use, coming from the water system or from an autonomous supply, can be particularly hard, that is it can have a high concentration of calcium and magnesium salts. Precipitating, these salts create scaling, damage boilers, kettles, water systems and domestic appliances in general.

The softeners by ATLAS FILTRI are made in compliance with the laws and regulations in force and make it possible to lower hardness with great benefits and savings in:
- sanitary hot and cold drinking water circuits
- hot water heating system boilers and their relative circuits
- steam boilers and their relative circuits as well as condensate return
- cooling and refrigerated water systems
- evaporative towers
- civil and industrial washing machines and dishwashers, launderettes
- process water for raw materials and unfinished products
- process water for the production of food, pharmaceutical and cosmetic products

The softeners offer hygienic-sanitary advantages (softer and cleaner laundry, greater detergent saving and longer clothing life).
The softeners utilize the exchange of calcium (Ca) and magnesium (Mg) ions with sodium (Na) ions, making the water to be softened flow on a strong cationic resin bed.
The resin is rich in sodium ions; the hard water is filtered and the ions responsible for the calcium and magnesium scaling are held on the surface of the resin and replaced with sodium ions, whose salts do not cause any deposits.
To ensure the treatment is effective, regenerate the filtering bed at regular intervals with an NaCl (brine) solution. This is done automatically by the multi-function controlling head, controlled by an electronic displacement timer/control. To be used in hot and cold sanitary drinking water circuits, the water softeners can be fitted with a by-pass and automatic resin-disinfection device (chlorine producer).

ATTENTION: these equipment require regular periodic maintenance in order to ensure the potability requirements of the treated drinking water and the maintenance of improvements as declared by the manufacturer.

MATERIALS

Selected raw materials, suitable for drinking water.
- Control-valve: NORYL
- Tank: glass-fibre reinforced polyethylene
- Brine tank and cabinet: polyethylene
- Treating material: strong cationic ion-exchange resin

Remark: material for regeneration (NaCl) not provided with the softener (except for the PEGASUS model).

REFILL

- Strong cationic resin, package of 25 litres (AQUARIUS, HELIOS, JUPITER, ARCHIMEDE, ADRIATIC 5).
- Special mix of 5 media (PEGASUS).

THE RANGE:

AQUARIUS

Range of proportional cab softeners
with EXCLUSIVE design
and SUPERIOR PERFORMANCES

HELIOS EVO - HELIOS UF

Range of softeners equipped with advanced electronics that allow PROPORTIONAL REGENERATION: the system regulates the consumption of water and salt, according to the actual water consumption of the users.

JUPITER

Range of double body and cabinet softeners with a timed or volume control valve.

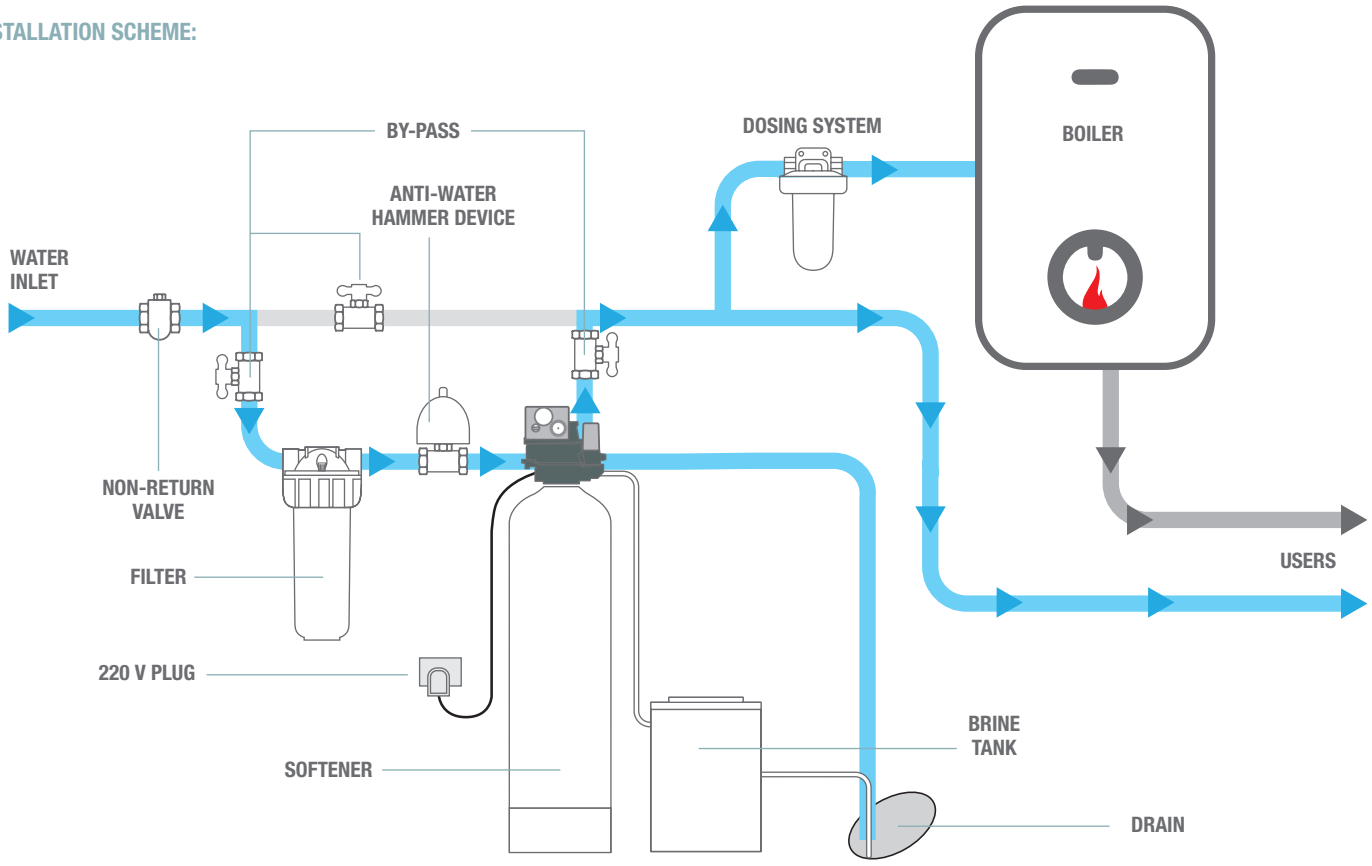
PEGASUS

Range of double body and cabinet softeners that use a special mixture of granule resins to remove hardness, iron and manganese.

ADRIATIC 5

Small portable regenerable manual water softener with a sturdy and corrosion-resistant structure.
Works with no power supply.

INSTALLATION SCHEME:



Softeners are available in 2 configurations:
- Compact version (CAB) where the resin tank and brine tank are in one single unit. For small capacities, they make up an elegant and small solution to soften water for domestic use.
- Version where the resin tank is separated from the brine tank, suitable for both domestic and industrial use.

The flow and cycle capacity data are calculated using 30°F (300 ppm CaCO3) supply water, with a TDS of 500 ppm and a temperature of 20°C.

BENEFIT

- Greater efficiency from all water heaters and heating loops
- Significant reduction in energy consumption
- Limescale formation prevented in: pipes, boilers, storage cylinders, water systems and domestic appliances in general
- Programmable regeneration cycles
- Linen always soft and clean after the wash
- Lower detergent consumption
- Longer lasting linen

CERTIFICATIONS:

prodotto conforme a D.M. 25/2012

EAC

Products are certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 (Italy) and EAC/Ghostreghistrazia (Russia)

AQUARIUS

Range of proportional cab softeners
with EXCLUSIVE design
and SUPERIOR PERFORMANCES

POINT OF ENTRY **COLDWATER**

MAX WORKING PRESSURE
8 bar (116 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

MAX TOTAL HARDNESS
50°F (500 ppm $CaCO_3$)

- Exclusive NSF Certified electronic control valve with reliable piston, seal and spacer technology
- User-friendly large color LCD display, humanized interface design.
- Touch keys design on a high strength tempered glass, high end and easy to operate.
- Time saving quick connect fittings on bypass, drain and brine line.
- Space saving bypass with integrated turbine meter, include bypass tool, easy to operate it.
- Closed bottom brine well reduced intrusion of unwanted impurities.
- Brine valve with safety float and provide extra overflow protection.
- Reduced salt consumption (max 120 g / liter of resin)
- Reduced water consumption (approx. 5 liters water / liter of resin).
- Soft Water Brine Tank Refill keeps tank & injectors clean.
- 48 hour self-charging battery back-up.
- Up flow regeneration, adjustable backwash frequency saves up to 8.000 litres of water per year.
- Flushes stagnant water after 7 days of non-use preventing bacteria growth.
- Optional: salt alarm detect the salt volume in the cabinet to remind you to add salt.

AQUARIUS

MODEL	AQUARIUS 1 SOFTENER + SALT ALARM	AQUARIUS 2 SOFTENER + SALT ALARM
CYCLIC CAPACITY	NEA1000190	NEA1000191
RESIN QUANTITY	3/4"	3/4"
SALT USED PER	75 m^3x°f	150 m^3x°f
REGENERATION	12,5 l	25 l
WATER USED PER	1,2 kg	2,4 kg
REGENERATION	60 l	132 l
SALT STORAGE CAPACITY	24 kg	64 kg
MAX FLOW RATE	1,5 m^3/h	2,4 m^3/h
SERVICE FLOW RATE	1 m^3/h	1,6 m^3/h
REGENERATION TYPE	UP FLOW	UP FLOW
REGENERATION MODE	Calendar Clock/Meter Immediate/Meter Delayed/Meter Override	Calendar Clock/Meter Immediate/Meter Delayed/Meter Override
RESIN TYPE	High Capacity Ion Exchange Resin	High Capacity Ion Exchange Resin
INTEGRATED METER IN BYPASS	Yes	Yes
WATER SUPPLY	Municipal	Municipal
WATER TEMPERATURE	3- 38°c	3- 38°c
WATER PRESSURE	2 – 8,6 bar	2 – 8,6 bar
POWER SUPPLY	220 -240V Ac 50/60hz	220 -240V Ac 50/60hz
PRODUCT DIMENSION (LxWxH)	511x324x584 mm	511x324x1044 mm
CARTON DIMENSION	554x372x680 mm	554x372x1140 mm
WEIGHT	25 kg	45 kg

NEWPRODUCT

HELIOS EVO

Low salt and water consumption single-body softener
NEW DESIGN with advanced electronics

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

POINT OF ENTRY **COLDWATER**

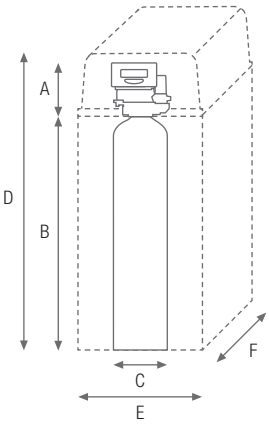
MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL SPECIFICATIONS:

Max. Fe concentration: 0,1 ppm
Max. free chlorine concentration: 0,5 ppm
Electrical functioning: 12V
Electrical absorption: 8W

MAIN FEATURES OF THE CLACK UF VALVE

- Reduced salt consumption (max 120 g of salt per litre of resin) compared to older valves (which consume approx. 180 g of salt per litre of resin).
- Reduced water consumption (approx. 7 litres of water per litre of resin) compared to older valves (which consume approx. 10 litres of water per litre of resin).
- If programmed UF with a dry vat, proportional regeneration can be set: the machine introduces more or less water into the salt vat to produce more or less brine, according to the actual consumption of the cyclic capacity. Not being able to know how much water will be consumed before the next regeneration, regeneration is ended by not filling the vat (this is called “dry vat”), then as regeneration approaches, water is introduced into the vat and it is left to form the brine and then the actual regeneration begins. The more variable the consumption, the more it makes sense to use the proportional system.
- Hardness at the inlet and outlet can be set; the valve also considers the mixed water and sets/consumes the cycle at 100%.
- Multilingual, energy-saving display (turns off after 5 minutes of inactivity).



HELIOS EVO | DIMENSIONS

MODEL	A [mm]	B [mm]	C [mm]	D[mm]	E [mm]	F [mm]	WEIGHT [kg]
HELIOS EVO CAB 11 UF	180	432	214	730	320	510	15
HELIOS EVO CAB 16 UF	180	771	182	730	320	510	20
HELIOS EVO CAB 22 UF	180	771	206	1080	320	510	31
HELIOS EVO CAB 27 UF	180	771	232	1080	320	510	36

NEW HELIOS EVO

WITH PROPORTIONAL VOLUMETRIC CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY [m^3 X °f]	SALT FOR REGENERATION [kg]	FLOW RATE [m^3/h]	MAX FLOW RATE [m^3/h]
NEA1000220	HELIOS EVO CAB 11 UF	CLACK UF	3/4”	11	66	1,7	1,2	1,4
NEA1000221	HELIOS EVO CAB 16 UF	CLACK UF	3/4”	16	96	2,4	1,7	2,2
NEA1000222	HELIOS EVO CAB 22 UF	CLACK UF	3/4”	22	132	3,3	1,3	1,6
NEA1000223	HELIOS EVO CAB 27 UF	CLACK UF	3/4”	27	162	4,1	1,6	1,9

HELIOS UF

Low salt and water consumption softener

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

POINT OF ENTRY **COLDWATER**

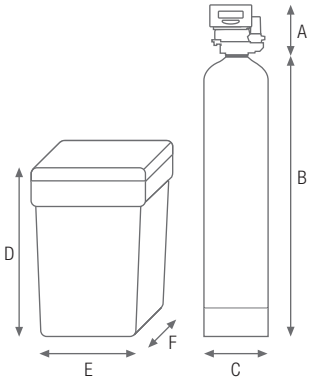
MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL SPECIFICATIONS:

Max. Fe concentration: 0,1 ppm
Max. free chlorine concentration: 0,5 ppm
Electrical functioning: 12V
Electrical absorption: 8W

MAIN FEATURES OF THE CLACK UF VALVE

- Reduced salt consumption (max 120 g of salt per litre of resin) compared to older valves (which consume approx. 180 g of salt per litre of resin).
- Reduced water consumption (approx. 7 litres of water per litre of resin) compared to older valves (which consume approx. 10 litres of water per litre of resin).
- If programmed UF with a dry vat, proportional regeneration can be set: the machine introduces more or less water into the salt vat to produce more or less brine, according to the actual consumption of the cyclic capacity. Not being able to know how much water will be consumed before the next regeneration, regeneration is ended by not filling the vat (this is called “dry vat”), then as regeneration approaches, water is introduced into the vat and it is left to form the brine and then the actual regeneration begins. The more variable the consumption, the more it makes sense to use the proportional system.
- Hardness at the inlet and outlet can be set; the valve also considers the mixed water and sets/consumes the cycle at 100%.
- Multilingual, energy-saving display (turns off after 5 minutes of inactivity).



HELIOS UF | DIMENSIONS

MODELLO	A [mm]	B [mm]	A+B [mm]	C [mm]	D[mm]	E [mm]	F [mm]	WEIGHT [kg]
HELIOS 11 UF	180	432	612	214	790	380	380	18
HELIOS 16 UF	180	778	958	184	790	380	380	27
HELIOS 22 UF	180	783	963	208	790	380	380	32
HELIOS 27 UF	180	766	943	233	790	380	380	36
HELIOS 32 UF	180	766	943	257	790	380	380	40
HELIOS 48 UF	180	1122	1302	257	843	565	565	63

HELIOS UF - LOW SALT AND WATER CONSUMPTION DOUBLE-BODY SOFTENER

with advanced electronics

WITH PROPORTIONAL VOLUMETRIC CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY [m^3 X °f]	SALT FOR REGENERATION [kg]	FLOW RATE [m^3/h]	MAX FLOW RATE [m^3/h]
NEA1000146	HELIOS 11 UF	CLACK UF	3/4”	11	60	1,4	1,2	1,4
NEA1000147	HELIOS 16 UF	CLACK UF	3/4”	16	86	2,0	1,0	1,2
NEA1000148	HELIOS 22 UF	CLACK UF	3/4”	22	113	2,8	1,3	1,6
NEA1000149	HELIOS 27 UF	CLACK UF	3/4”	27	145	3,5	1,6	1,9
NEA1000150	HELIOS 32 UF	CLACK UF	3/4”	32	173	4,1	1,9	2,3
NEA1000151	HELIOS 48 UF	CLACK UF	3/4”	48	260	5,4	2,2	2,6

ACCESSORIES AND SPARE PARTS | HELIOS UF - HELIOS EVO

PART NUMBER	MODEL	VALVE MODEL
NEA1015122	BYPASS FOR VALVE CLACK UF	CLACK
NMETECHVAL658	KIT DISINFECTION RESIN FOR CLACK VALVE	CLACK
NMETECHVAL661	BLACK INJECTOR A FOR WS1CK	CLACK
NMETECHVAL662	BROWN INJECTOR B FOR WS1CK	CLACK
NMETECHVAL663	PURPLE INJECTOR C FOR WS1CK	CLACK
NMETECHVAL664	RED INJECTOR D FOR WS1CK	CLACK
NMETECHVAL665	WHITE INJECTOR E FOR WS1CK	CLACK
NMETECHACC608	KEY FOR VALVE CLACK	CLACK
NEA1015009	KIT CONTROL TH (WATER HARDNESS TEST)	ALL

JUPITER CAB

Cabinet softener - compact version

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

POINT OF ENTRY **COLDWATER**

MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL SPECIFICATIONS:

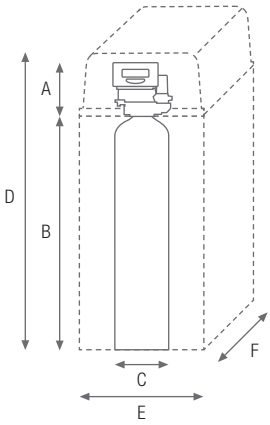
Max. Fe concentration: 0,1 ppm
Max. free chlorine concentration: 0,5 ppm
Electrical functioning: 12V
Electrical absorption: 8W

TECHNICAL REQUIREMENTS

Microprocessor dedicated electronics with the following characteristics:
- easily programmed display with dedicated keyboard
- disinfection system management (optional) during regeneration
- possible manual start of the regeneration process with guided progression through the various phases
- display of the regeneration phases and their duration
- memory autonomy up to 8 days (if the power supply is lacking)
- unit safety voltage 12V/50Hz

OPERATING MODES

- TIME (ATL-ATM): regeneration valve with electronic timer automatically starting the regeneration at a time programmed by the user (for domestic use normally at night, when the demand for softened water is minimal). The unit allows programming of the time and frequency of the regeneration, from a minimum of 1 regeneration every 12 hours to a maximum of 1 every 99 days. Alternatively, the regeneration can be programmed for a fixed day in the week, always at the same time.
- VOLUME (AVL-AVM): regeneration valve fitted with a flow sensor and a turbine meter checking the volume of the water treated. This version starts the regeneration at the selected time of the day chosen by the electronics according to the real water consumption, the exchange capacity and the set hardness. The unit allows programming in the following modes:
  - time-volume: after reaching the set volume, at a set time.
  - pure volume: immediately after reaching the set volume.



MODEL	A [mm]	B [mm]	C [mm]	D[mm]	E [mm]	F [mm]	WEIGHT [kg]
Jupiter CAB 05 ATL - Minicab	190	340	189	540	240	430	7
Jupiter CAB 10 ATL	190	432	214	650	330	500	18
Jupiter CAB 15 ATL	190	898	189	1130	330	500	26
Jupiter CAB 30 ATL	190	897	264	1130	330	500	40
Jupiter CAB 05 AVL - Minicab	190	340	189	540	240	430	7
Jupiter CAB 10 AVL	190	432	214	650	330	500	18
Jupiter CAB 15 AVL	190	898	189	1130	330	500	26
Jupiter CAB 30 AVL	190	897	264	1130	330	500	40

JUPITER CAB ATL

WITH TIMER CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE [m³/h]	MAX FLOW RATE [m³/h]	BACK-WASH FLOW RATE [m³/h]
NEA1000001	Jupiter CAB 05 ATL - Minicab	Logix 255/740	3/4"	4,5	25	0,8	0,4	0,6	0,4
NEA1000002	Jupiter CAB 10 ATL	Logix 255/740	3/4"	10	60	1,5	1,1	1,5	0,4
NEA1000003	Jupiter CAB 15 ATL	Logix 255/740	3/4"	15	90	2,3	0,9	1,1	0,3
NEA1000004	Jupiter CAB 30 ATL	Logix 255/740	3/4"	30	180	4,5	1,8	2,3	0,6

JUPITER CAB AVL

WITH VOLUMETRIC CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE [m³/h]	MAX FLOW RATE [m³/h]	BACK-WASH FLOW RATE [m³/h]
NEA1000005	Jupiter CAB 05 AVL - Minicab	Logix 255/760	3/4"	4,5	25	0,8	0,4	0,6	0,4
NEA1000006	Jupiter CAB 10 AVL	Logix 255/760	3/4"	10	60	1,5	1,1	1,5	0,4
NEA1000007	Jupiter CAB 15 AVL	Logix 255/760	3/4"	15	90	2,3	0,9	1,1	0,3
NEA1000008	Jupiter CAB 30 AVL	Logix 255/760	3/4"	30	180	4,5	1,8	2,3	0,6

JUPITER ATL-ATM

Range of softeners with timer control valve

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

POINT OF ENTRY

COLDWATER

MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL SPECIFICATIONS:

Max. Fe concentration: 0,1 ppm
Max. free chlorine concentration: 0,5 ppm
Electrical functioning: 12V
Electrical absorption: 8W

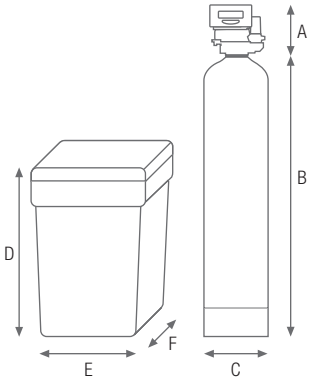
TECHNICAL REQUIREMENTS

Microprocessor dedicated electronics with the following characteristics:
- easily programmed display with dedicated keyboard
- disinfection system management (optional) during regeneration
- possible manual start of the regeneration process with guided progression through the various phases
- display of the regeneration phases and their duration
- memory autonomy up to 8 days (if the power supply is lacking)
- unit safety voltage 12V/50Hz

OPERATING MODES

- TIME (ATL-ATM): regeneration valve with electronic timer automatically starting the regeneration at a time programmed by the user (for domestic use normally at night, when the demand for softened water is minimal). The unit allows programming of the time and frequency of the regeneration, from a minimum of 1 regeneration every 12 hours to a maximum of 1 every 99 days. Alternatively, the regeneration can be programmed for a fixed day in the week, always at the same time.

JUPITER ATL-ATM | DIMENSIONS



MODEL	A [mm]	B [mm]	A+B [mm]	C [mm]	D[mm]	E [mm]	F [mm]	WEIGHT [kg]	TANK VOLUME [l]
Jupiter 10 ATL	190	432	622	214	790	380	380	18	85
Jupiter 15 ATL	190	898	1088	189	790	380	380	26	85
Jupiter 30 ATL	190	897	1087	264	790	380	380	40	85
Jupiter 50 ATL	190	1386	1576	264	843	565	565	63	140
Jupiter 70 ATL	190	1398	1588	338	843	565	565	82	140
Jupiter 100 ATL	180	1674	1854	365	1123	565	565	112	190
Jupiter 120 ATL	180	1671	1851	416	1123	565	565	120	190
Jupiter 150 ATM	272	1722	1994	491	1200	723	723	180	340
Jupiter 175 ATM	272	1722	1994	491	1200	723	723	200	340
Jupiter 200 ATM	272	2064	2336	555	1200	833	833	230	460
Jupiter 230 ATM	272	2064	2336	555	1200	833	833	250	460
Jupiter 270 ATM	272	2168	2440	625	1196	973	973	280	670
Jupiter 300 ATM	272	2168	2440	625	1196	973	973	320	670
Jupiter 500 ATM	272	2139	2411	780	1206	1123	1123	480	920
Jupiter 650 ATM	(•)	(•)	(•)	932	1255	1235	1235	600	1500
Jupiter 900 ATM	(•)	(•)	(•)	1089	1255	1235	1235	820	1500
Jupiter 1100 ATM	(•)	(•)	(•)	1233	1255	1235	1235	1050	1500

(•) Technical drawings available on request

JUPITER ATL - ATM

WITH TIMER CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE [m³/h]	MAX FLOW RATE [m³/h]	BACK-WASH FLOW RATE [m³/h]
NEA1000009	Jupiter 10 ATL	Logix 255/740	3/4"	10	60	1,5	1,1	1,5	0,4
NEA1000010	Jupiter 15 ATL	Logix 255/740	3/4"	15	90	2,3	0,9	1,1	0,3
NEA1000011	Jupiter 30 ATL	Logix 255/740	3/4"	30	180	4,5	1,8	2,3	0,6
NEA1000012	Jupiter 50 ATL	Logix 255/740	1"	50	300	7,5	2,1	2,5	0,6
NEA1000013	Jupiter 70 ATL	Logix 255/740	1"	70	420	10,5	3,0	3,9	0,9
NEA1000014	Jupiter 100 ATL	Logix 268/740	1"	100	600	15,0	3,5	4,5	1,1
NEA1000015	Jupiter 120 ATL	Logix 268/740	1"	120	720	18,0	4,5	5,8	1,6
NEA1000016	Jupiter 150 ATM	Autotrol / Clack	1" 1/2 - 2"	150	900	22,5	5,7	7,4	1,8
NEA1000017	Jupiter 175 ATM	Autotrol / Clack	1" 1/2 - 2"	175	1050	26,3	5,7	7,4	1,8
NEA1000018	Jupiter 200 ATM	Autotrol / Clack	1" 1/2 - 2"	200	1200	30,0	7,8	10,1	2,3
NEA1000019	Jupiter 230 ATM	Autotrol / Clack	1" 1/2 - 2"	230	1380	34,5	7,8	10,1	2,3
NEA1000020	Jupiter 270 ATM	Autotrol / Clack	1" 1/2 - 2"	270	1620	40,5	10,2	13,1	3,2
NEA1000021	Jupiter 300 ATM	Autotrol / Clack	1" 1/2 - 2"	300	1800	45,0	10,2	13,1	3,2
NEA1000022	Jupiter 500 ATM	Autotrol / Clack	2"	500	3000	75,0	16,0	20,5	5,0
NEA1000023	Jupiter 650 ATM	(•)	(•)	650	3900	97,5	23,0	29,5	7,1
NEA1000024	Jupiter 950 ATM	(•)	(•)	950	5700	142,5	31,3	40,2	9,8
NEA1000025	Jupiter 1100 ATM	(•)	(•)	1100	6600	165,0	40,8	52,5	12,8

JUPITER AVL-AVM

Range of softeners with volumetric control valve

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

POINT OF ENTRY

COLDWATER

MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL SPECIFICATIONS:

Max. Fe concentration: 0,1 ppm
Max. free chlorine concentration: 0,5 ppm
Electrical functioning: 12V
Electrical absorption: 8W

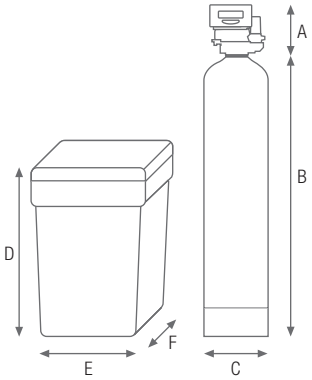
TECHNICAL REQUIREMENTS

Microprocessor dedicated electronics with the following characteristics:
- easily programmed display with dedicated keyboard
- disinfection system management (optional) during regeneration
- possible manual start of the regeneration process with guided progression through the various phases
- display of the regeneration phases and their duration
- memory autonomy up to 8 days (if the power supply is lacking)
- unit safety voltage 12V/50Hz

OPERATING MODES

- VOLUME (AVL-AVM): regeneration valve fitted with a flow sensor and a turbine meter checking the volume of the water treated. This version starts the regeneration at the selected time of the day chosen by the electronics according to the real water consumption, the exchange capacity and the set hardness. The unit allows programming in the following modes:
  - time-volume: after reaching the set volume, at a set time.
  - pure volume: immediately after reaching the set volume.

JUPITER AVL-AVM | DIMENSIONS



MODEL	A [mm]	B [mm]	A+B [mm]	C [mm]	D[mm]	E [mm]	F [mm]	WEIGHT [kg]	TANK VOLUME [l]
Jupiter 10 AVL	190	432	622	214	790	380	380	18	85
Jupiter 15 AVL	190	898	1088	189	790	380	380	26	85
Jupiter 30 AVL	190	897	1087	264	790	380	380	40	85
Jupiter 50 AVL	190	1386	1576	264	843	565	565	63	140
Jupiter 70 AVL	190	1398	1588	338	843	565	565	82	140
Jupiter 100 AVL	180	1674	1854	365	1123	565	565	112	190
Jupiter 120 AVL	180	1671	1851	416	1123	565	565	120	190
Jupiter 150 AVM	272	1722	1994	491	1200	723	723	180	340
Jupiter 175 AVM	272	1722	1994	491	1200	723	723	200	340
Jupiter 200 AVM	272	2064	2336	555	1200	833	833	230	460
Jupiter 230 AVM	272	2064	2336	555	1200	833	833	250	460
Jupiter 270 AVM	272	2168	2440	625	1196	973	973	280	670
Jupiter 300 AVM	272	2168	2440	625	1196	973	973	320	670
Jupiter 500 AVM	272	2139	2411	780	1206	1123	1123	480	920
Jupiter 650 AVM	(•)	(•)	(•)	932	1255	1235	1235	600	1500
Jupiter 900 AVM	(•)	(•)	(•)	1089	1255	1235	1235	820	1500
Jupiter 1100 AVM	(•)	(•)	(•)	1233	1255	1235	1235	1050	1500

(•) Technical drawings available on request

JUPITER AVL - AVM

WITH VOLUMETRIC CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE [m³/h]	MAX FLOW RATE [m³/h]	BACK-WASH FLOW RATE [m³/h]
NEA1000026	Jupiter 10 AVL	Logix 255/760	3/4"	10	60	1,5	1,1	1,5	0,4
NEA1000027	Jupiter 15 AVL	Logix 255/760	3/4"	15	90	2,3	0,9	1,1	0,3
NEA1000028	Jupiter 30 AVL	Logix 255/760	3/4"	30	180	4,5	1,8	2,3	0,6
NEA1000029	Jupiter 50 AVL	Logix 255/760	1"	50	300	7,5	2,1	2,5	0,6
NEA1000030	Jupiter 70 AVL	Logix 255/760	1"	70	420	10,5	3,0	3,9	0,9
NEA1000031	Jupiter 100 AVL	Logix 268/760	1"	100	600	15,0	3,5	4,5	1,1
NEA1000032	Jupiter 120 AVL	Logix 268/760	1"	120	720	18,0	4,5	5,8	1,6
NEA1000033	Jupiter 150 AVM	Autotrol / Clack	1" 1/2 - 2"	150	900	22,5	5,7	7,4	1,8
NEA1000034	Jupiter 175 AVM	Autotrol / Clack	1" 1/2 - 2"	175	1050	26,3	5,7	7,4	1,8
NEA1000035	Jupiter 200 AVM	Autotrol / Clack	1" 1/2 - 2"	200	1200	30,0	7,8	10,1	2,3
NEA1000036	Jupiter 230 AVM	Autotrol / Clack	1" 1/2 - 2"	230	1380	34,5	7,8	10,1	2,3
NEA1000037	Jupiter 270 AVM	Autotrol / Clack	1" 1/2 - 2"	270	1620	40,5	10,2	13,1	3,2
NEA1000038	Jupiter 300 AVM	Autotrol / Clack	1" 1/2 - 2"	300	1800	45,0	10,2	13,1	3,2
NEA1000039	Jupiter 500 AVM	Autotrol / Clack	2"	500	3000	75,0	16,0	20,5	5,0
NEA1000040	Jupiter 650 AVM	(•)	(•)	650	3900	97,5	23,0	29,5	7,1
NEA1000041	Jupiter 950 AVM	(•)	(•)	950	5700	142,5	31,3	40,2	9,8
NEA1000042	Jupiter 1100 AVM	(•)	(•)	1100	6600	165,0	40,8	52,5	12,8

JUPITER DUPLEX

Twin-column range of softeners with volumetric control valve

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

POINT OF ENTRY

COLDWATER

MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL SPECIFICATIONS:

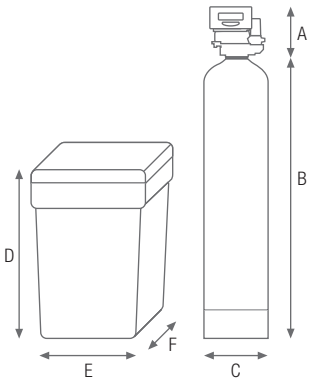
Max. Fe concentration: 0,1 ppm
Max. free chlorine concentration: 0,5 ppm
Electrical functioning: 12V
Electrical absorption: 8W

TECHNICAL REQUIREMENTS

Microprocessor dedicated electronics with the following characteristics:
- easily programmed display with dedicated keyboard
- disinfection system management (optional) during regeneration
- possible manual start of the regeneration process with guided progression through the various phases
- display of the regeneration phases and their duration
- memory autonomy up to 8 days (if the power supply is lacking)
- unit safety voltage 12V/50Hz

OPERATING MODES

The columns are regenerated one at a time, so one column is always working, while the other one is being regenerated or in stand-by.
The regeneration is programmed according to the volume of water supplied. The system is managed automatically by an electronic programmer controlling the start of the regeneration of the exhausted column and the exchange of functions between the two columns; the processor works on the basis of the signals received from an impulse meter.



JUPITER DUPLEX | DIMENSIONS

MODEL	A [mm]	B [mm]	A+B [mm]	C [mm]	D[mm]	E [mm]	F [mm]	WEIGHT [kg]	TANK VOLUME [l]
Jupiter Duplex 2x50 AVL	190	1386	1576	264	843	565	565	63	140
Jupiter Duplex 2x70 AVL	190	1398	1588	338	843	565	565	82	140
Jupiter Duplex 2x100 AVL	180	1674	1854	365	1123	565	565	112	190
Jupiter Duplex 2x120 AVL	180	1671	1851	416	1123	565	565	120	190
Jupiter Duplex 2x150 AVM	272	1722	1994	491	1200	723	723	180	340
Jupiter Duplex 2x175 AVM	272	1722	1994	491	1200	723	723	200	340
Jupiter Duplex 2x200 AVM	272	2064	2336	555	1200	833	833	230	460
Jupiter Duplex 2x230 AVM	272	2064	2336	555	1200	833	833	250	460
Jupiter Duplex 2x270 AVM	272	2168	2440	625	1196	973	973	280	670
Jupiter Duplex 2x300 AVM	272	2168	2440	625	1196	973	973	320	670
Jupiter Duplex 2x500 AVM	272	2139	2411	780	1206	1123	1123	480	920
Jupiter Duplex 2x650 AVM	(•)	(•)	(•)	932	1255	1235	1235	600	1500
Jupiter Duplex 2x900 AVM	(•)	(•)	(•)	1089	1255	1235	1235	820	1500
Jupiter Duplex 2x1100 AVM	(•)	(•)	(•)	1233	1255	1235	1235	1050	1500

(•) Technical drawings available on request

JUPITER DUPLEX AVL - AVM

WITH VOLUMETRIC CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE [m³/h]	MAX FLOW RATE [m³/h]	BACK-WASH FLOW RATE [m³/h]
NEA1000043	Jupiter Duplex 2x50 AVL	Logix 255/764	1"	2 x 50	2 x 300	7,5	2,1	2,5	0,6
NEA1000044	Jupiter Duplex 2x70 AVL	Logix 255/764	1"	2 x 70	2 x 420	10,5	3,0	3,9	0,9
NEA1000045	Jupiter Duplex 2x100 AVL	Logix 278/764	1"	2 x 100	2 x 600	15,0	3,5	4,5	1,1
NEA1000046	Jupiter Duplex 2x120 AVL	Logix 278/764	1"	2 x 120	2 x 720	18,0	4,5	5,8	1,6
NEA1000047	Jupiter Duplex 2x150 AVM	Autotrol / Clack	1" 1/2	2 x 150	2 x 900	22,5	5,7	7,4	1,8
NEA1000048	Jupiter Duplex 2x175 AVM	Autotrol / Clack	1" 1/2	2 x 175	2 x 1050	26,3	5,7	7,4	1,8
NEA1000049	Jupiter Duplex 2x200 AVM	Autotrol / Clack	1" 1/2	2 x 200	2 x 1200	30,0	7,8	10,1	2,3
NEA1000050	Jupiter Duplex 2x230 AVM	Autotrol / Clack	1" 1/2	2 x 230	2 x 1380	34,5	7,8	10,1	2,3
NEA1000051	Jupiter Duplex 2x270 AVM	Autotrol / Clack	1" 1/2	2 x 270	2 x 1620	40,5	10,2	13,1	3,2
NEA1000052	Jupiter Duplex 2x300 AVM	Autotrol / Clack	1" 1/2	2 x 300	2 x 1800	45,0	10,2	13,1	3,2
NEA1000053	Jupiter Duplex 2x500 AVM	Autotrol / Clack	2"	2 x 500	2 x 3000	75,0	16,0	20,5	5,0
NEA1000054	Jupiter Duplex 2x650 AVM	(•)	2" 1/2	2 x 650	2 x 3900	97,5	23,0	29,5	7,1
NEA1000055	Jupiter Duplex 2x950 AVM	(•)	3"	2 x 950	2 x 5700	142,5	31,3	40,2	9,8
NEA1000056	Jupiter Duplex 2x1100 AVM	(•)	DN 80	2 x 1100	2 x 6600	165,0	40,8	52,5	12,8

ACCESSORIES AND SPARE PARTS | JUPITER

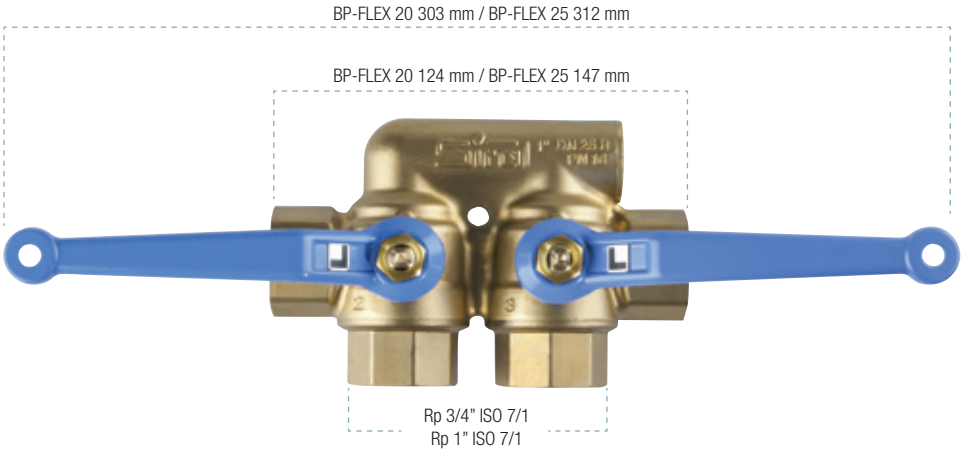
PART NUMBER	MODEL	VALVE MODEL
NEA1015503	KIT DISINFECTION RESIN 3/8"	-
NEA1015120	BYPASS VAL. AUTOTROL 255 LOGIX 1" W/MIX. SCREW AND HOSE CONNECTOR 1/2"	LOGIX
NEA1015121	BYPASS VAL. AUTOTROL 268 LOGIX 1" W/MIX. SCREW AND HOSE CONNECTOR 1/2"	LOGIX
NEA1015009	KIT CONTROL TH (WATER HARDNESS TEST)	ALL
NEA1015105	CAM SHAFT FOR LOGIX 255 VALVE	LOGIX
NEA1015084	TIMER FOR VOLUME LOGIX VALVE	LOGIX
NEA1015085	TIMER FOR TIME LOGIX VALVE	LOGIX
NEA1015079	TRANSFORMER 230/12V FOR EUROPEAN PLUG	LOGIX
NMETECHACC096	CYLINDER ADAPTER O-RING	LOGIX
NEA1015080	MONOBLOCK SPRING FOR VALVE 255	LOGIX
NMETECHACC097	VALVE BODY COUPLING O-RING KIT	LOGIX
NMETECHACC098	FLANGED CONNECTION O-RING KIT	LOGIX
NEA1015081	DISK VALVE KIT FOR VALVE 255 (CLAPET)	LOGIX
NMETECHACC099	INJECTOR E - YELLOW	LOGIX
NMETECHACC100	INJECTOR F - PEACH	LOGIX
NMETECHACC101	INJECTOR H - LIGHT PURPLE	LOGIX
NMETECHACC102	BACKWASH REGULATOR 07 WITH O-RING	LOGIX
NMETECHACC103	BACKWASH REGULATOR 08 WITH O-RING	LOGIX
NMETECHACC104	BACKWASH REGULATOR 10 WITH O-RING	LOGIX
NEA1015078	OPTICAL SENSOR SWITCH	LOGIX
NEA1015035	GEARMOTOR 255/268/278 LOGIX WITH CABLES	LOGIX
NMETECHACC105	MIXER HEADWORK	LOGIX
NMETECHACC002	BAYONET SUB-VALVE FILTER 1.05"	LOGIX
NMETECHACC051	1/4" F ELBOW FITTING FOR VALVE 255	LOGIX
NMETECHACC053	3/8" F INTERMEDIATE ELBOW FITTING FOR BRINE PIPE	LOGIX
NMETECHACC063	3/8" PP PIPE FOR BRINE SUCTION (1 skein = 30 M)	LOGIX
NMETECHACC031	3/8" ELBOW DRAIN FITTING	LOGIX

BP FLEX

Complete 4-way bypass system in brass,
ideal for water softening, filtration, solar/thermal systems.

MAX WORKING PRESSURE
16 bar (232,06 psi)

MAX WORKING TEMPERATURE
160°C (320°F)
MIN WORKING TEMPERATURE
-40°C (-104°F)



TECHNICAL SPECIFICATIONS:

Selected materials, suitable for potable water.
Threaded connections: ISO 7/1 Rp conical female
Lever handle: blue painted aluminium
Body: CW617N
Closure fitting: CW617N
Ball: CW617N Chrome
Ball seats: PTFE virgin
Control pin: CW614N
Double OR sealing: EPDM PEROX
Handle lock nut: CW614N

BP-FLEX allows rapid installation of closed circuits where it acts as a loading/unloading valve, or of filtration and water treatment systems where it acts as a bypass to isolate the devices during maintenance. Suitable for: cold water, hot water, water/glycol mixtures (up to 50% glycol).

Ideal for the installation of secondary systems derived from the main pipeline:

- Water treatment systems
- Solar thermal systems
- Softening systems
- Water filtration systems
- And in general, where a circuit must be set up: with bypass, loading/unloading function or deviation

ADVANTAGES OF A SYSTEM WITH BP-FLEX

- Quick assembly (only 4 connections)
- Simple operation (only 2 handles)
- Space optimisation
- Only 4 connection points (possibility of leaks reduced by 66%)
- Less fixing points on the wall and less holes to be drilled

PART NUMBER	MODEL	MAX WORKING PRESSURE	IN/OUT
NEA1015125	BY PASS BP-FLEX 20 - 3/4" FF	16 bar	3/4"
NEA1015126	BY PASS BP-FLEX 25 - 1" FF	16 bar	1"

ADRIATIC 5

Portable softener

NO POWER

SAVE ENERGY

POINT OF USE
portable

COLDWATER

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL REQUIREMENTS

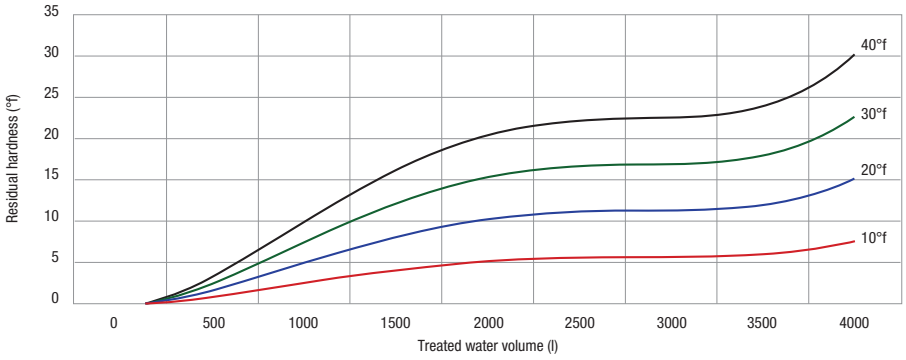
Selected raw materials, suitable for drinking water.
Max Fe: 0,1 ppm
Control-valve: NORYL®.
Frame: painted aluminium/stainless steel AISI 316 L.
Hoses: polyethilene.
Resin tank: glass fiber reinforced polyethilene.
Brine: polystyrene HS-EasyBRINE cartridge with NaCl.
Softening material: strong cationic ion-exchange resin (Na cycle).
Filtering and dechlorination medium:
activated carbon block cartridge CB-EC, nominal filtration 10 micron.
Filter housings: reinforced polypropylene, PET.
Dimensions: 250 x 370 x H 445 mm
Weight: 10 kg

ADRIATIC 5 | portable softener without power supply

PART NUMBER	MODEL
NEA1005100	ADRIATIC 5

VOLUME OF THE WATER SOFTENED

Total hardness conversions:
1°f = 10 ppm CaCO3 - 1°f = 0,56°T german



The volume of the water softened with ADRIATIC 5 depends on the total hardness of the inlet water (the raw water entering the softener). The diagram shows the volumes of treated water at different hardness of the inlet water at 10°f, 20°f, 30°f, 40°f up to 4000 liters after the treatment.
The curves show the residual hardness at various inlet hardness: on that basis it is possible to operate the regeneration procedure at the preferred residual hardness level. It is recommended to keep the residual hardness below 10°f.

FILTER CARTRIDGES

CB-EC CTO 10 micron
- CARBON BLOCK. Filtration of fine particles (rust, lime, sand, scales); reduction of chlorine (bad tastes, odours) and chloride pollutants (pesticides, solvents, etc). The average life-time of the filtration CB-EC cartridge is 3-6 months: the life-time depend on the in-let water quality and on the volume of the treated water.

HS-EasyBRINE
- Container with NaCl specifically formulated for the regeneration of strong cationic resin. To be changed with a new cartridge after every regeneration process. When all the salt of the HS-EasyBRINE cartridge is consumed the resin regeneration process is completed. End cap with antimicrobial flat seal.

ACCESSORIES AND SPARE PARTS | ADRIATIC 5

CODICE	MODELLO
RE5395109	CB-EC 10 SX - 10 mcr
RA5195120	HS BRINE - ADRIATIC - 10"
RB5175122	P 10 S SX TS
RB7403017	BLACK "X" SPANNER FOR K DP / HYDRA / DOSAPLUS 5-6-7 HOUSINGS
LB7120835	DP 10 PT HOUSING
LB7120836	DP 10 PT AB HOUSING

PEGASUS CAB

Softeners with ECOMIX-P special mix - cabinet version

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

POINT OF ENTRY **COLDWATER**

MAX WORKING TEMPERATURE
40°C (104°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL SPECIFICATIONS:

Electrical functioning: 12V
Electrical absorption: 8W
Treating material: special mix of five high quality ion exchange and adsorption materials.
Material for regeneration (NaCl) is provided with the softener.
REFILL: Mix, package of 12 litres.

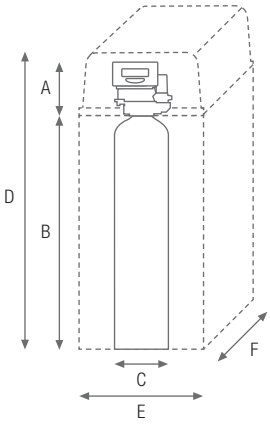
TECHNICAL REQUIREMENTS

Microprocessor dedicated electronics with the following characteristics:
- easily programmed display with dedicated keyboard
- disinfection system management (optional) during regeneration
- possible manual start of the regeneration process with guided progression through the various phases
- display of the regeneration phases and their duration
- unit safety voltage 12V/50Hz

The PEGASUS softeners utilize a special granular filtering media, suitable for removal of natural organic matter, hardness, iron and manganese in a wide pH range and without any oxidant products dosage. The filter media is a homogeneous mixture of five high quality ion exchange and adsorption materials of natural and synthetic origin; you can use it as a ion-exchange resin and regenerate it with sodium chloride (NaCl). The filter media can treat water with high concentration of Iron and Manganese, and with max TDS 4000 mg/l.

OPERATING MODES

TIME (ATL-ATM): regeneration valve with electronic timer automatically starting the regeneration at a time programmed by the user (for domestic use normally at night, when the demand for softened water is minimal). The unit allows programming of the time and frequency of the regeneration, from a minimum of 1 regeneration every 12 hours to a maximum of 1 every 99 days. Alternatively, the regeneration can be programmed for a fixed day in the week, always at the same time.
VOLUME (AVL-AVM): regeneration valve fitted with a flow sensor and a turbine meter checking the volume of the water treated. This version starts the regeneration at the selected time of the day chosen by the electronics according to the real water consumption, the exchange capacity and the set hardness. The unit allows programming in the following modes:
• time-volume: after reaching the set volume, at a set time.
• pure volume: immediately after reaching the set volume.



Max content in the feed water: Hardness (ppm CaCO3) 750 - Iron (ppm) 15 - Manganese (ppm) 3 - Free Chlorine (ppm) 1 -Temperature <40°C - pH 5÷9
Reduction Efficiency (%): Hardness 97% - Iron 98% - Manganese 98%
Output water quality with limit contents: Hardness (ppm CaCO3) 22,5 - Iron (ppm) 0,3 - Manganese (ppm) 0,06

PEGASUS CAB | DIMENSIONS

MODEL	A [mm]	B [mm]	C [mm]	D[mm]	E [mm]	F [mm]	WEIGHT [kg]
Pegasus CAB 12	190	898	189	1130	330	500	-
Pegasus CAB 24	190	898	264	1130	330	500	-

PEGASUS CAB ATL

WITH TIMER CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE [m³/h]	MAX FLOW RATE [m³/h]	BACK-WASH FLOW RATE [m³/h]
NEA1000166	Pegasus CAB 12 ATL	LOGIX 255/742	3/4"	12	42	1,2	0,5	0,6	0,3
NEA1000167	Pegasus CAB 24 ATL	LOGIX 255/742	3/4"	24	84	2,4	1,2	1,3	0,8

PEGASUS CAB AVL

WITH VOLUMETRIC CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE [m³/h]	MAX FLOW RATE [m³/h]	BACK-WASH FLOW RATE [m³/h]
NEA1000168	Pegasus CAB 12 AVL	Logix 255/762	3/4"	12	42	1,2	0,5	0,6	0,3
NEA1000169	Pegasus CAB 24 AVL	Logix 255/762	3/4"	24	84	2,4	1,2	1,3	0,8

PEGASUS ATL-AVL

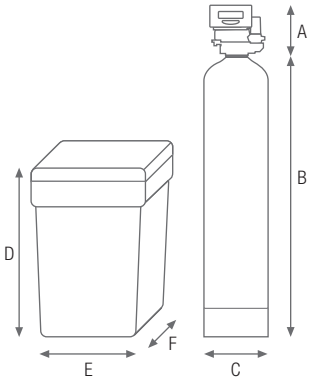
Softeners with ECOMIX-P special mix - time and volume versions

POINT OF ENTRY

COLDWATER

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

MAX WORKING TEMPERATURE
40°C (104°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



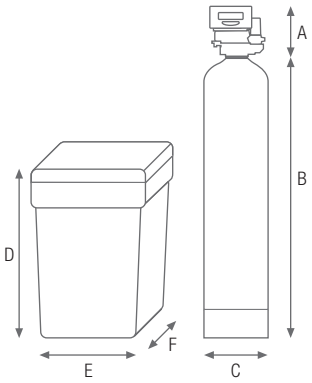
PEGASUS ATL | DIMENSIONS

MODEL	A [mm]	B [mm]	A+B [mm]	C [mm]	D[mm]	E [mm]	F [mm]	WEIGHT [kg]
Pegasus 12 ATL	190	901	1091	195	790	380	380	-
Pegasus 24 ATL	190	903	1093	269	790	380	380	-
Pegasus 36 ATL	190	1385	1575	269	790	380	380	-
Pegasus 48 ATL	190	1335	1525	315	790	380	380	-
Pegasus 72 ATL	190	1645	1835	380	843	565	565	-
Pegasus 96 ATL	190	1632	1822	420	1123	565	565	-
Pegasus 120 ATL	190	1432	1622	510	1123	565	565	-

PEGASUS ATL

WITH TIMER CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE [m³/h]	MAX FLOW RATE [m³/h]	BACK-WASH FLOW RATE [m³/h]
NEA1000152	Pegasus 12 ATL	Logix 255/742	3/4"	12	42	1,2	0,5	0,6	0,3
NEA1000153	Pegasus 24 ATL	Logix 255/742	3/4"	24	84	2,4	1,0	1,3	0,8
NEA1000154	Pegasus 36 ATL	Logix 255/742	3/4"	36	126	3,6	1,0	1,3	0,8
NEA1000155	Pegasus 48 ATL	Logix 255/742	1"	48	168	4,8	1,5	1,8	0,9
NEA1000156	Pegasus 72 ATL	Logix 268/742	1"	72	252	7,2	2,0	2,5	1,4
NEA1000157	Pegasus 96 ATL	Logix 268/742	1"	96	336	9,6	2,6	3,2	1,8
NEA1000158	Pegasus 120 ATL	Logix 278/742	1"	120	420	12,0	3,3	4,1	2,1



PEGASUS AVL | DIMENSIONS

MODEL	A [mm]	B [mm]	A+B [mm]	C [mm]	D[mm]	E [mm]	F [mm]	WEIGHT [kg]
Pegasus 12 AVL	190	901	1091	195	790	380	380	-
Pegasus 24 AVL	190	903	1093	269	790	380	380	-
Pegasus 36 AVL	190	1385	1575	269	790	380	380	-
Pegasus 48 AVL	190	1335	1525	315	790	380	380	-
Pegasus 72 AVL	190	1645	1835	380	843	565	565	-
Pegasus 96 AVL	190	1632	1822	420	1123	565	565	-
Pegasus 120 AVL	190	1432	1622	510	1123	565	565	-

PEGASUS AVL

WITH VOLUMETRIC CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	RESIN [l]	CYCLE CAPACITY [m³ X °f]	SALT FOR REGENERATION [kg]	FLOW RATE [m³/h]	MAX FLOW RATE [m³/h]	BACK-WASH FLOW RATE [m³/h]
NEA1000159	Pegasus 12 AVL	Logix 255/762	3/4"	12	42	1,2	0,5	0,6	0,3
NEA1000160	Pegasus 24 AVL	Logix 255/762	3/4"	24	84	2,4	1,0	1,3	0,8
NEA1000161	Pegasus 36 AVL	Logix 255/762	3/4"	36	126	3,6	1,0	1,3	0,8
NEA1000162	Pegasus 48 AVL	Logix 255/762	1"	48	168	4,8	1,5	1,8	0,9
NEA1000163	Pegasus 72 AVL	Logix 268/762	1"	72	252	7,2	2,0	2,5	1,4
NEA1000164	Pegasus 96 AVL	Logix 268/762	1"	96	336	9,6	2,6	3,2	1,8
NEA1000165	Pegasus 120 AVL	Logix 278/762	1"	120	420	12,0	3,3	4,1	2,1

MEDIA FILTERS

The water used for drinking, sanitary or technological applications supplied by the water system or an autonomous source can have various problems such as:
- impurities (sand, clay, silt)
- iron and manganese
- excess of chlorine or bad smells and tastes
- arsenic excesses (both arsenite and arsenate)
- PFAS (perfluoroalkyl substances)

The Atlas Filtri range of media filters is divided into:

MARS DEFERRIZING FILTERS: filters that remove iron and manganese from the water, consist of a column containing a manganese dioxide (pyrolusite) filtering bed acting as a catalyst for the oxidation of the iron, manganese and hydrogen sulphide present in the water. To ensure the filter is effective, carry out counter-current rinsing of the filtering bed at regular intervals. In this case too this is done automatically by the controlling head, controlled by an electronic displacement timer/control.

VENUS DECHLORINATION FILTERS: activated carbon filters consist of a column containing a filtering bed of selected vegetable granular charcoal, with a high internal surface and optimum porous structure to absorb the organic compounds present in the water for civil or industrial use. To ensure the filter is effective, carry out counter-current rinsing of the filtering bed at regular intervals. As with the other models, this is done automatically by the head, controlled by an electronic displacement timer/control. In drinking water systems a disinfection (UV or chlorine dosing) system must be installed downstream from the dechlorination filter.

SAND CLARIFICATION FILTERS: filters that remove silt and/or colloidal substances, consist of a column containing a permanent multi-layer filtering bed; to get rid of the impurities and restore the filter efficiency, just carry out counter-current rinsing at regular intervals. This is done automatically by the controlling head, controlled by an electronic displacement timer/control.

VEGA ARSENIC REMOVING FILTERS: At the moment the separation of arsenic from drinking water with granulated ferric hydroxide (GFH) is a very advantageous process thanks to low investment and maintenance costs. In removing arsenic from water, both As3+ and As5+ compounds are absorbed by the GFH in a specially constructed filter the water to be treated runs through. Even during very long running periods, the filtering material maintains good porosity and good capacity of holding arsenic. Good porosity is due to the fact that the grain size is very homogeneous between 0.2 and 2 mm. The high capacity of absorbing arsenic is due to the fact that GFH is produced so that it has low crystallinity and high microporosity. The VEGA arsenic removing filters by ATLAS FILTRI can be used to treat all or just part of the water for human consumption.

NO PFAS VENUS FILTERS: active carbon filters consisting of a column containing a filtering bed of selected high quality granular active carbon produced by physical activation of selected raw material of mineral origin. The active carbon is particularly effective for removing PFAS and other organic polluting elements, colourings, pesticides, chlorinated and aromatic solvents, phenols, tannins, chlorine derivatives and compounds that cause bad odours and flavours in potable waters.

OPERATING MODES

- TIME (ATL-ATM): regeneration valve with electronic timer automatically starting the regeneration at a time programmed by the user (for domestic use normally at night, when the demand for softened water is minimal). The unit allows programming of the time and frequency of the regeneration, from a minimum of 1 regeneration every 12 hours to a maximum of 1 every 99 days. Alternatively, the regeneration can be programmed for a fixed day in the week, always at the same time.
- VOLUME (AVL-AVM): regeneration valve fitted with a flow sensor and a turbine meter checking the volume of the water treated. This version starts the regeneration at the selected time of the day chosen by the electronics according to the real water consumption, the exchange capacity and the set hardness. The unit allows programming in the following modes:
  - time-volume: after reaching the set volume, at a set time.
  - pure volume: immediately after reaching the set volume.

TECHNICAL REQUIREMENTS

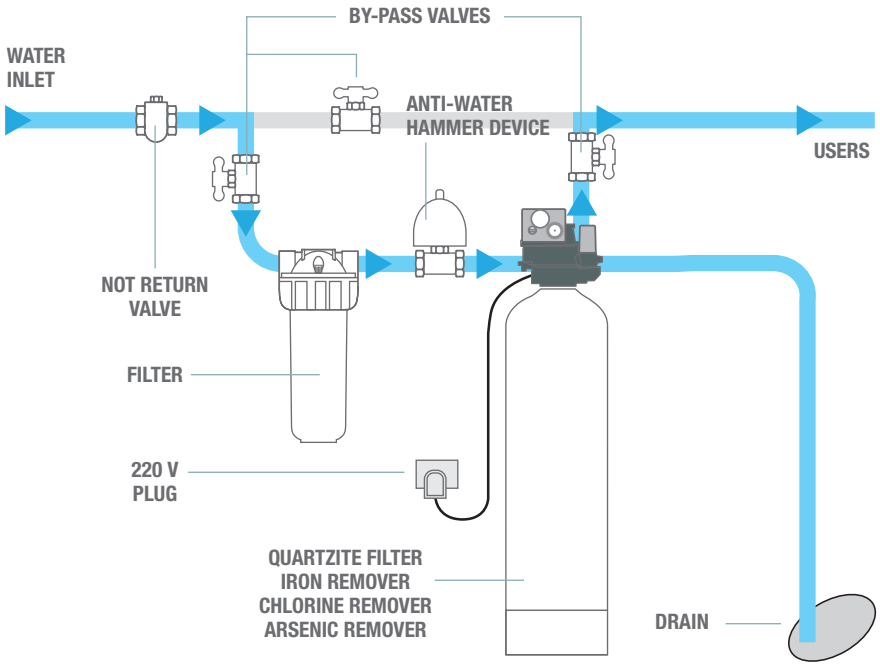
Microprocessor dedicated electronics with the following characteristics:
- easily programmed display with dedicated keyboard
- possible manual start of the regeneration process with guided progression through the various phases
- display of the regeneration phases and their duration
- memory autonomy up to 10 days (if the power supply is lacking)
- unit safety voltage 12V/50Hz

MATERIALS

Non-toxic materials, suitable for drinking water.
- Control-valve: NORYL
- Tank: glass-fibre reinforced polyethylene
- Treating material:

MARS PRL - superb quality and purity pyrolusite (manganese dioxide), obtained by washing, drying and screening mineral selected specifically for oxidizing.
VENUS -selected vegetable granular charcoal, with a high internal surface and optimum porous structure to absorb the organic compounds present in the water for civil or industrial use.
SAND - sand and single-crystal spherical quartz gravel of alluvial origin with high silica content, specifically selected to filter water for civil and industrial use.
VEGA -granular ferric hydroxide: absorbing means for the selective removal of arsenic (both arsenite and arsenate), phosphate, selenium and other heavy metals from natural water.
VENUS NO PFAS - selected granular active carbon of mineral origin, specific for PFAS removal.

INSTALLATION SCHEME



CERTIFICATIONS:

prodotto conforme a D.M. 25/2012

EAC

Products are certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 (Italy) and EAC/Ghostreghistrazia (Russia)

ACCESSORIES:

chlorine, iron, arsenic, manganese test drops

manual by-pass for 263 valve

MARS

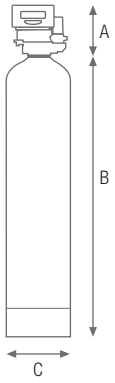
Iron removers

POINT OF ENTRY

COLDWATER

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



TECHNICAL SPECIFICATIONS:

Electrical functioning: 12V
Electrical absorption: 8W
Standard models with PYROLUSITE treatment material.
Note: models with different treatment materials (BIRM, MANGANESE GREENSAND) available on request.
* Data referring to water with 3 ppm iron maximum
The flow data are calculated using supply water with a TDS of 500 ppm and at a temperature of 20°C.

MARS PRL ATL - ATM

WITH TIMER CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	MEDIA VOLUME [l]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	BACK-WASH FLOW RATE [m³/h]	A [mm]	B [mm]	A+B [mm]	C [mm]	WEIGHT [kg]
NEA1000075	Mars PRL 25 ATL	Logix 263/740	1"	25	0,3	0,5	0,8	180	1132	1312	214	55
NEA1000076	Mars PRL 50 ATL	Logix 263/740	1"	50	0,5	0,8	1,3	180	1386	1566	264	100
NEA1000077	Mars PRL 75 ATL	Logix 263/740	1"	75	0,8	1,3	2,1	180	1398	1578	338	150
NEA1000078	Mars PRL 100 ATL	Logix 263/740	1"	100	0,9	1,5	2,3	180	1674	1854	365	195
NEA1000079	Mars PRL 125 ATL	Logix 263/740	1"	125	1,2	1,9	2,7	180	1671	1851	416	250
NEA1000080	Mars PRL 150 ATL	Logix 263/740	1"	150	1,5	2,5	4,6	180	1722	1902	491	300
NEA1000082	Mars PRL 200 ATM	Autotrol / Clack	1" 1/2	200	2,0	3,4	5,5	272	2064	2336	555	400
NEA1000083	Mars PRL 300 ATM	Autotrol / Clack	1" 1/2	300	2,6	4,4	7,3	272	2168	2440	625	610
NEA1000084	Mars PRL 500 ATM	Autotrol / Clack	2"	500	4,1	6,8	10,0	272	2139	2411	780	990
NEA1000085	Mars PRL 700 ATM	Autotrol / Clack	2"	700	5,9	9,8	14,5	272	2147	2419	938	1320

MARS PRL AVL - AVM

WITH VOLUMETRIC CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	MEDIA VOLUME [l]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	BACK-WASH FLOW RATE [m³/h]	A [mm]	B [mm]	A+B [mm]	C [mm]	WEIGHT [kg]
NEA1000086	Mars PRL 25 AVL	Logix 263/760	1"	25	0,3	0,5	0,8	180	1132	1312	214	55
NEA1000087	Mars PRL 50 AVL	Logix 263/760	1"	50	0,5	0,8	1,3	180	1386	1566	264	100
NEA1000088	Mars PRL 75 AVL	Logix 263/760	1"	75	0,8	1,3	2,1	180	1398	1578	338	150
NEA1000089	Mars PRL 100 AVL	Logix 263/760	1"	100	0,9	1,5	2,3	180	1674	1854	365	195
NEA1000090	Mars PRL 125 AVL	Logix 263/760	1"	125	1,2	1,9	2,7	180	1671	1851	416	250
NEA1000091	Mars PRL 150 AVL	Logix 263/760	1"	150	1,5	2,5	4,6	180	1722	1902	491	300
NEA1000093	Mars PRL 200 AVM	Autotrol / Clack	1" 1/2	200	2,0	3,4	5,5	272	2064	2336	555	400
NEA1000094	Mars PRL 300 AVM	Autotrol / Clack	1" 1/2	300	2,6	4,4	7,3	272	2168	2440	625	610
NEA1000095	Mars PRL 500 AVM	Autotrol / Clack	2"	500	4,1	6,8	10,0	272	2139	2411	780	990
NEA1000096	Mars PRL 700 AVM	Autotrol / Clack	2"	700	5,9	9,8	14,5	272	2147	2419	938	1320

VENUS

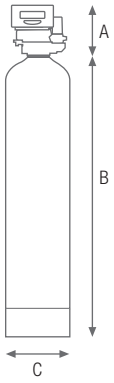
Chlorine removers

POINT OF ENTRY

COLDWATER

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



TECHNICAL SPECIFICATIONS:

Electrical functioning: 12V
Electrical absorption: 8W
*Data referring to water with 1 ppm chlorine max and 1 ppm absorbing substances max.
The flow data are calculated using supply water with a TDS of 500 ppm and at a temperature of 20°C.

VENUS ATL - ATM

WITH TIMER CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	MEDIA VOLUME [l]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	BACK-WASH FLOW RATE [m³/h]	A [mm]	B [mm]	A+B [mm]	C [mm]	WEIGHT [kg]
NEA1000097	Venus 25 ATL	Logix 263/740	1"	25	0,5	0,8	0,7	180	1132	1312	214	20
NEA1000098	Venus 50 ATL	Logix 263/740	1"	50	0,8	1,3	1,1	180	1386	1566	264	34
NEA1000099	Venus 75 ATL	Logix 263/740	1"	75	1,3	2,1	1,8	180	1398	1578	338	47
NEA1000100	Venus 100 ATL	Logix 263/740	1"	100	1,5	2,5	2,3	180	1674	1854	365	69
NEA1000101	Venus 125 ATL	Logix 263/740	1"	125	1,9	3,2	2,7	180	1671	1851	416	80
NEA1000102	Venus 150 ATL	Logix 263/740	1"	150	2,5	4,1	3,4	180	1722	1902	491	100
NEA1000103	Venus 200 ATL	Logix 263/740	1"	200	3,4	5,6	4,6	180	2064	2244	555	130
NEA1000104	Venus 200 ATM	Autotrol / Clack	1" 1/2	200	3,4	5,6	4,6	272	2064	2336	555	150
NEA1000105	Venus 300 ATM	Autotrol / Clack	1" 1/2	300	4,4	7,3	6,2	272	2168	2440	625	220
NEA1000106	Venus 500 ATM	Autotrol / Clack	2"	500	6,8	11,4	10,0	272	2139	2411	780	390
NEA1000107	Venus 600 ATM	Autotrol / Clack	2"	600	9,8	16,4	14,0	272	2150	2422	930	460

VENUS AVL - AVM

WITH VOLUMETRIC CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	MEDIA VOLUME [l]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	BACK-WASH FLOW RATE [m³/h]	A [mm]	B [mm]	A+B [mm]	C [mm]	WEIGHT [kg]
NEA1000108	Venus 25 AVL	Logix 263/760	1"	25	0,5	0,8	0,7	180	1132	1312	214	20
NEA1000109	Venus 50 AVL	Logix 263/760	1"	50	0,8	1,3	1,1	180	1386	1566	264	34
NEA1000110	Venus 75 AVL	Logix 263/760	1"	75	1,3	2,1	1,8	180	1398	1578	338	47
NEA1000111	Venus 100 AVL	Logix 263/760	1"	100	1,5	2,5	2,3	180	1674	1854	365	69
NEA1000112	Venus 125 AVL	Logix 263/760	1"	125	1,9	3,2	2,7	180	1671	1851	416	80
NEA1000113	Venus 150 AVL	Logix 263/760	1"	150	2,5	4,1	3,4	180	1722	1902	491	100
NEA1000114	Venus 200 AVL	Logix 263/760	1"	200	3,4	5,6	4,6	180	2064	2244	555	130
NEA1000115	Venus 200 AVM	Autotrol / Clack	1" 1/2	200	3,4	5,6	4,6	272	2064	2336	555	150
NEA1000116	Venus 300 AVM	Autotrol / Clack	1" 1/2	300	4,4	7,3	6,2	272	2168	2440	625	220
NEA1000117	Venus 500 AVM	Autotrol / Clack	2"	500	6,8	11,4	10,0	272	2139	2411	780	390
NEA1000118	Venus 600 AVM	Autotrol / Clack	2"	600	9,8	16,4	14,0	272	2150	2422	930	460

SAND

Quartzite filters

POINT OF ENTRY **COLDWATER**

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL SPECIFICATIONS:

Electrical functioning: 12V

Electrical absorption: 8W

* Data referring to water with turbidity lower than 10 mg/l of SiO2 or 4 Jackson units.
The flow data are calculated using supply water with a TDS of 500 ppm and at a temperature of 20°C.

SAND ATL - ATM

WITH TIMER CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	MEDIA VOLUME [l]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	BACK-WASH FLOW RATE [m³/h]	A [mm]	B [mm]	A+B [mm]	C [mm]	WEIGHT [kg]
NEA1000057	Sand 25 ATL	Logix 263/740	1"	25	0,6	1,0	1,0	180	1132	1312	214	50
NEA1000058	Sand 50 ATL	Logix 263/740	1"	50	1,0	1,5	1,5	180	1386	1566	264	87
NEA1000059	Sand 75 ATL	Logix 263/740	1"	75	1,7	2,6	2,6	180	1398	1578	338	130
NEA1000060	Sand 100 ATL	Logix 263/740	1"	100	2,0	3,0	3,0	180	1674	1854	365	170
NEA1000061	Sand 125 ATL	Logix 263/740	1"	125	2,6	3,9	3,9	180	1671	1851	416	230
NEA1000062	Sand 150 ATL	Logix 263/740	1"	150	3,3	4,9	4,9	180	1722	1902	491	280
NEA1000063	Sand 200 ATM	Autotrol / Clack	1" 1/2	200	4,5	6,7	6,7	272	2064	2336	555	360
NEA1000064	Sand 300 ATM	Autotrol / Clack	1" 1/2	300	5,8	8,8	8,8	272	2168	2440	625	550
NEA1000065	Sand 500 ATM	Autotrol / Clack	2"	500	9,1	13,7	13,7	272	2139	2411	780	790

SAND AVL - AVM

WITH VOLUMETRIC CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	MEDIA VOLUME [l]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	BACK-WASH FLOW RATE [m³/h]	A [mm]	B [mm]	A+B [mm]	C [mm]	WEIGHT [kg]
NEA1000066	Sand 25 AVL	Logix 263/760	1"	25	0,6	1,0	1,0	180	1132	1312	214	50
NEA1000067	Sand 50 AVL	Logix 263/760	1"	50	1,0	1,5	1,5	180	1386	1566	264	87
NEA1000068	Sand 75 AVL	Logix 263/760	1"	75	1,7	2,6	2,6	180	1398	1578	338	130
NEA1000069	Sand 100 AVL	Logix 263/760	1"	100	2,0	3,0	3,0	180	1674	1854	365	170
NEA1000070	Sand 125 AVL	Logix 263/760	1"	125	2,6	3,9	3,9	180	1671	1851	416	230
NEA1000071	Sand 150 AVL	Logix 263/760	1"	150	3,3	4,9	4,9	180	1722	1902	491	280
NEA1000072	Sand 200 AVM	Autotrol / Clack	1" 1/2	200	4,5	6,7	6,7	272	2064	2336	555	360
NEA1000073	Sand 300 AVM	Autotrol / Clack	1" 1/2	300	5,8	8,8	8,8	272	2168	2440	625	550
NEA1000074	Sand 500 AVM	Autotrol / Clack	2"	500	9,1	13,7	13,7	272	2139	2411	780	790

VEGA

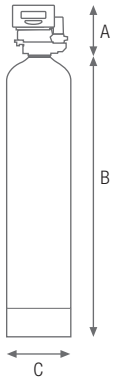
Arsenic removal filters

POINT OF ENTRY

COLDWATER

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



TECHNICAL SPECIFICATIONS:

Electrical functioning: 12V
Electrical absorption: 8W

* Data referring to water with 40 micrograms arsenic maximum (contact time 4 minutes)
** Data referring to water with 30 micrograms arsenic maximum (contact time 3 minutes)
The flow data are calculated using supply water with a TDS of 500 ppm and at a temperature of 20°C.

VEGA ATL - ATM

WITH TIMER CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	MEDIA VOLUME [l]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	BACK-WASH FLOW RATE [m³/h]	A [mm]	B [mm]	A+B [mm]	C [mm]	WEIGHT [kg]
NEA1000119	Vega 40 ATL	Logix 263/740	1"	40	0,4	0,5	1,1	180	1386	1566	257	65
NEA1000120	Vega 55 ATL	Logix 263/740	1"	55	0,6	0,8	1,5	180	1338	1518	310	85
NEA1000121	Vega 70 ATL	Logix 263/740	1"	70	0,8	1,1	1,8	180	1393	1573	336	100
NEA1000122	Vega 110 ATL	Logix 263/740	1"	110	1,2	1,6	2,7	180	1671	1851	413	165
NEA1000123	Vega 155 ATL	Logix 263/740	1"	155	1,6	2,1	3,4	180	1722	1902	486	220
NEA1000124	Vega 170 ATL	Logix 263/740	1"	170	1,8	2,4	4,7	180	1434	1614	550	235
NEA1000125	Vega 230 ATL	Autotrol / Clack	1" 1/2	230	2,8	3,7	6,1	180	1915	2095	626	320
NEA1000126	Vega 260 ATL	Autotrol / Clack	1" 1/2	260	3,2	4,3	6,1	180	1915	2095	626	350
NEA1000127	Vega 370 ATL	Autotrol / Clack	1" 1/2	370	4,4	5,9	9,1	180	2140	2320	780	500
NEA1000128	Vega 540 ATM	Autotrol / Clack	1" 1/2	540	6,0	8,0	13,8	272	2147	2419	938	725
NEA1000129	Vega 840 ATM	Autotrol / Clack	1" 1/2	840	10,0	13,2	18,8	272	2360	2632	1233	1100

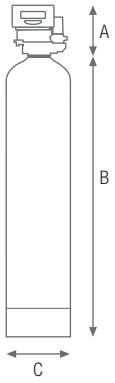
VEGA AVL - AVM

WITH VOLUMETRIC CONTROL VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	MEDIA VOLUME [l]	FLOW RATE* [m³/h]	MAX FLOW RATE* [m³/h]	BACK-WASH FLOW RATE [m³/h]	A [mm]	B [mm]	A+B [mm]	C [mm]	WEIGHT [kg]
NEA1000130	Vega 40 AVL	Logix 263/760	1"	40	0,4	0,5	1,1	180	1386	1566	257	65
NEA1000131	Vega 55 AVL	Logix 263/760	1"	55	0,6	0,8	1,5	180	1338	1518	310	85
NEA1000132	Vega 70 AVL	Logix 263/760	1"	70	0,8	1,1	1,8	180	1393	1573	336	100
NEA1000133	Vega 110 AVL	Logix 263/760	1"	110	1,2	1,6	2,7	180	1671	1851	413	165
NEA1000134	Vega 155 AVL	Logix 263/760	1"	155	1,6	2,1	3,4	180	1722	1902	486	220
NEA1000135	Vega 170 AVL	Logix 263/760	1"	170	1,8	2,4	4,7	180	1434	1614	550	235
NEA1000136	Vega 230 AVL	Autotrol / Clack	1" 1/2	230	2,8	3,7	6,1	180	1915	2095	626	320
NEA1000137	Vega 260 AVL	Autotrol / Clack	1" 1/2	260	3,2	4,3	6,1	180	1915	2095	626	350
NEA1000138	Vega 370 AVL	Autotrol / Clack	1" 1/2	370	4,4	5,9	9,1	180	2140	2320	780	500
NEA1000139	Vega 540 AVM	Autotrol / Clack	1" 1/2	540	6,0	8,0	13,8	272	2147	2419	938	725
NEA1000140	Vega 840 AVM	Autotrol / Clack	1" 1/2	840	10,0	13,2	18,8	272	2360	2632	1233	1100

VENUS-NO PFAS

Active carbon filters to remove PFAS



POINT OF ENTRY

COLDWATER

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
2 bar (29 psi)

MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL SPECIFICATIONS:

Electrical functioning: 12V
Electrical absorption: 8W
* Data referring to water with 1 ppm chlorine max and 1 ppm absorbing substances max.
The flow data are calculated using supply water with a TDS of 500 ppm and at a temperature of 20°C.

WHAT ARE PFAS?

PFAS are chemical compounds that make the treated surfaces impermeable to water, dirt and oil. They are used to produce several products: waterproofing products for fabrics, leathers and greaseproof paper; fire fighting foam for fire extinguishers; flame retardants in mattresses, carpets, sofas, car seats; floor wax and detergents; waxes; food containers.
The most popular use is probably as a non-stick coating in cookware and waterproofing fabrics and technical fabrics. At medical level, PFAS are recognised as endocrine disruptors and the probable cause of serious medical diseases, such as: kidney cancer, testicular cancer, thyroid disease, hypertension in pregnancy, ulcerative colitis and high cholesterol.

THE TERRITORIES AFFECTED BY THE POLLUTION

The area affected by the pollution of perfluoroalkyl substances (PFAS) is EQUAL TO 150 km2 of land that extends between the provinces of Vicenza, Verona and Padua, involving an estimated population of 300,000 inhabitants. Within this area, 30 municipalities found themselves having to also cope with the pollution of potable water, given that their source of supply is heavily polluted by PFAS. A filtration system with special active carbon must be installed to comply with the target limits imposed by the Veneto Region on the recommendation of the Italian National Health Service.

VENUS NO PFAS

WITH MANUAL 3-WAY FILTRATION VALVE

PART NUMBER	MODEL	VALVE	IN/OUT	MEDIA VOLUME [l]	MAX FLOW RATE* [m³/h]	A [mm]	B [mm]	A+B [mm]	C [mm]	WEIGHT [kg]
NEA1005078	VENUS NO PFAS 25 MANUAL	Manual	1"	25	0,15	140	1172	1312	214	20
NEA1005077	VENUS NO PFAS 50 MANUAL	Manual	1"	50	0,24	140	1426	1566	264	34
NEA1005103	VENUS NO PFAS 75 MANUAL	Manual	1"	75	0,40	140	1438	1578	338	47
NEA1005099	VENUS NO PFAS 100 MANUAL	Manual	1"	100	0,46	140	1714	1854	365	69
NEA1005104	VENUS NO PFAS 125 MANUAL	Manual	1"	125	0,60	140	1714	1854	416	80
NEA1005105	VENUS NO PFAS 150 MANUAL	Manual	1"	150	0,76	140	1762	1902	491	100

INDUSTRIAL MEDIA FILTERS

POINT OF ENTRY COLDWATER

MAX WORKING PRESSURE
6 bar (87 psi)
MIN WORKING PRESSURE
1,5 bar (22 psi)

MAX WORKING TEMPERATURE
50°C (122°F)
MIN WORKING TEMPERATURE
5°C (41°F)

TECHNICAL SPECIFICATIONS:

Electrical supply: 100÷240 Vac -50/60 Hz
Pneumatic services feeding: 5÷7 bar

PAINTING SPECIFICATIONS

Internal cycle:
Sandblasting: SA 2,5
Zinc-pleated bottom: 100 µm
Food-grade painting (DM174/04): 150/200 µm
External cycle:
Sandblasting: SA 2,5
Zinc-pleated bottom: 100 µm
Painting RAL 5015: 50/70 µm

Water used for drinking, domestic water, technology, coming from an aqueduct or independent supply, may pose several issues such as:
- impurities (sand, clay, silt)
- iron and manganese
- excess chlorine or bad smells and taste

- In the first case filtration is necessary to eliminate the turbidity due to clay, silt and/or colloidal substances, with multi-layer filters containing quartz sand of different particle size, capable of retaining large amounts of impurities. The **SAND MT** clarification filters consist of a column containing a permanent type multi-layer filtering bed; periodic backwashing is sufficient to eliminate the retained turbidity and restore the filter efficiency. This is automatically performed by the pack of automatic valves installed on the filter-front.
- In the second case it is necessary to remove iron and manganese, since their presence gives water a yellowish-reddish colour and an unpleasant taste, causes deposits with gradual occlusion of the pipes and often causes corrosion in the systems. Drinking water should not contain iron in excess of 0.2 mg/l and manganese in excess of 0.05 mg/l. The **MARS MT** iron removers consist of a column containing a filtering bed made of manganese dioxide (pyrolusite), which acts as a catalyst to oxidise iron, manganese and hydrogen sulphide present in the water. Periodic backwashing of the filtering bed is sufficient to ensure filter efficiency. This is automatically performed by the pack of automatic valves installed on the filter-front.
- In the third case filtration is required using active carbon chlorine removal filters. The **VENUS MT** chlorine removers consist of a column containing a filtering bed made of selected granular active carbon of plant origin, with extensive internal filtering surface and optimum porous structure for adsorption of organic compounds present in water for residential and industrial use. Periodic backwashing of the filtering bed is sufficient to ensure filter efficiency. As for the other models, these operations are automatically handled by the pack of automatic valves installed on the filter-front.

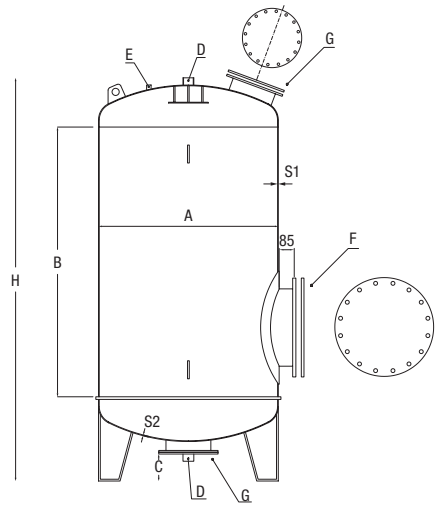
OPERATING MODES

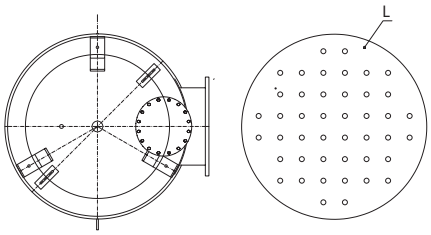
The operation of the equipment is controlled by a computerised electronic automation, with microprocessors, also enabling to program the duration of the various regeneration stages, in order to adapt the operation of the equipment to the specific application and optimise the consumption of water for the regeneration process. For all models, regeneration can be started manually at any time and independently of programming; regeneration is completed automatically (semiautomatic mode). The hydraulic unit that controls the regeneration process consists of 5 pneumatically operated butterfly valves with double acting pneumatic actuator, interconnected in a manifold mounted on the front of the filter. The butterfly valves, in turn, are controlled by low-voltage pilot solenoid valves. All materials used are non-toxic and are suitable for the treatment of drinking water.
The cylinder is made of carbon steel with epoxy resin lining suitable for food use and outer coating; the cylinder has a distribution plate with polypropylene diffusers, manholes and control pressure gauges. The butterfly valves have a cast iron body, while the parts in contact with water are made of stainless steel (disc and shaft) and EPDM (sleeve); the filtering masses are of approved type for food use.
All models can be supplied with separate inlets for water to be filtered and backwash water.

AVAILABLE MODELS AND VERSIONS

TIMED AUTOMATION: it is possible to program both the regeneration frequency, from 1 to 7 days, and the time of the day when the regeneration process is required.
On request, a timed automation for differential pressure can be provided (regeneration can be programmed according to the value of the pressure drop through the filter).
The control panel display shows the regeneration stage, if it is in progress, indicating the elapsed time and set limit time.
A dry contact is available as standard for signalling the regeneration in progress (e.g. for controlling a backwash pump); it is also possible to inhibit regeneration startup with an external dry contact.

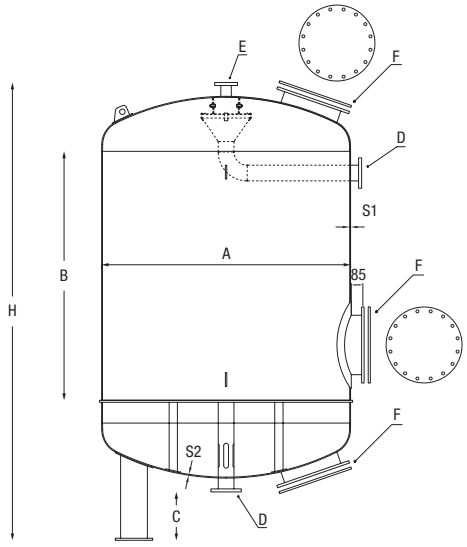
Ø 800 - 1600

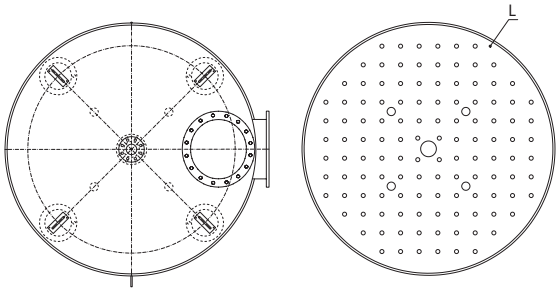




FRONT PLATE WITH NOZZLES

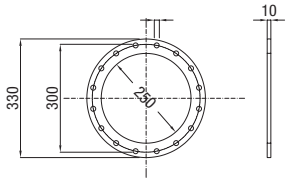
Ø 1800 - 2400



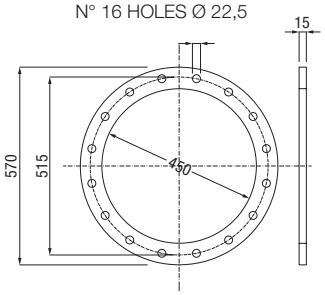


FRONT PLATE WITH NOZZLES

FLANGE Ø INTERNAL 250 mm
N° 8 HOLES Ø 14

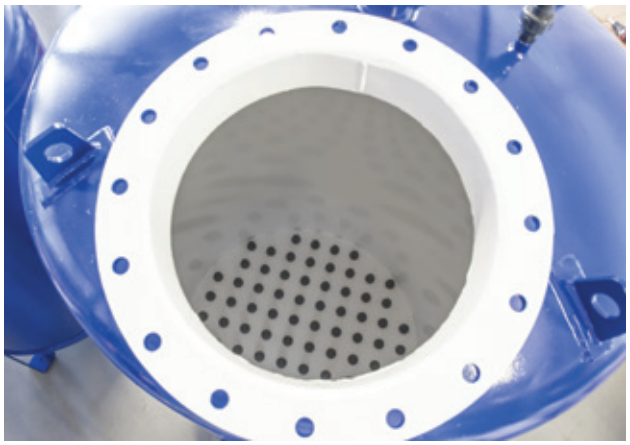


FLANGE Ø INTERNAL 450 mm
N° 16 HOLES Ø 22,5



SUMMARY TABLE FOR FILTERS WITH NOZZLE CARRIER PLATE

A [mm]	B [mm]	S1 [mm]	S2 [mm]	H [mm]	F [mm]	G [mm]	C [mm]	D	E	L
800	1500	3	3	2180	450	250	150	2"	1/2"	N° 44 holes Ø 28,5
1000	1500	4	4	2250	450	250	150	2"	1/2"	N° 44 holes Ø 28,5
1200	1500	4	5	2530	450	250/450	287	DN65PN10	1/2"	N° 76 holes Ø 28,5
1400	1500	5	6	2620	450	450	287	DN65PN10	1/2"	N° 80 holes Ø 28,5
1600	1500	5	6	2800	450	450	395	DN80PN10	1/2"	N° 104 holes Ø 28,5
1800	1500	6	7	3000	450	/	350	DN100PN10	DN65PN10	N° 120 holes Ø 28,5
2000	1500	6	8	3100	450	/	350	DN100PN10	DN65PN10	N° 164 holes Ø 28,5
2200	1500	6	8	3200	450	/	350	DN125PN10	DN65PN10	N° 208 holes Ø 28,5
2400	1500	8	10	3600	450	/	350	DN125PN10	DN65PN10	N° 240 holes Ø 28,5



WATER ANALYSIS TOOLS

PART NUMBER	MODEL
NEA1015009	KIT CONTROL TH (WATER HARDNESS TEST)
NEA6005001	IRON TEST KIT
NEA6005006	MANGANESE TEST KIT
NEA6005002	CHLORINE TEST KIT
NEA6005004	AMMONIA TEST KIT
NEA2010015	CHLORINE DIOXIDE TEST KIT FOR LEGIONELLA

MEASUREMENT TOOLS

PART NUMBER	MODEL
NEA1015099	CONDUCTIVITY INDICATOR RESILIGHT - 200 µS

UV DISINFECTION SYSTEMS

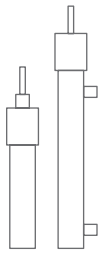
UV-C RAYS

The small part of electro-magnetic spectrum having wave lengths included between 100 and 400 nm (thousandths of micron) is defined as the space of the ultra-violet irradiation. **The UV-C are part of the subspace characterized by the wave lengths included between 100 and 280 nm.** Electro-magnetic waves with different wave length and width induce interactions with the matter of different nature; the UV-C irradiation with L = 254nm is particularly interesting thanks to its marked germicidal power.
The high germicidal power of this wave length must be sought in DNA and in the link of its fundamental components (nucleotids). DNA is a macromolecule present in all living organisms in which all information necessary for life and reproduction reside. The alteration, induced by the UV-C irradiation, of some chemical links present among nucleotids is able to change the information contained and conveyed by DNA, these alterations prevent its normal activity and this irreversibly leads to the cellular death.
For being effective in the disinfection, an electro-magnetic wave, besides being of a certain kind (L = 254nm) it must possess also a minimum value of intensity to be able to ensure a minimum dose to water. **A UV sterilizer, if correctly sized, is able to give water a dose sufficient for reducing almost all the commonest micro-organisms present in water.** Normally a UV disinfection system must have a UV dose higher than 300 J/m2. UV-C rays are produced with the help of special fluorescent lamps containing mercury fumes, these lamps are made of a very pure quartz (>99.99% SiO2) transparent to the UV-C light which they emit in an almost monochromatic form (>95% of L = 254nm).

WORKING CONDITIONS

Ambient temperature: 5÷45°C
Water working temperature: 5÷50°C
Peak until 70°C

THE RANGE



DOMESTIC SERIES

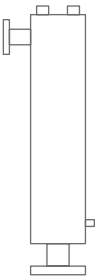
UV 300 AL - 300 l/h
UV 600 AL - 600 l/h
UV 1200 AL - 1200 l/h
UV 2800 AL - 2800 l/h
UV 1200 AL² - 1200 l/h
UV 2800 AL² - 2800 l/h

INDUSTRIAL SERIES

UV 1200 LCD - 1200 l/h
UV 2800 LCD - 2800 l/h
UV 3600 LCD - 3600 l/h
UV 4500 LCD - 4500 l/h
UV 5100 LCD - 5100 l/h
UV 6000 LCD - 6000 l/h
UV 12000 LCD - 12000 l/h

RACK SERIES

UV 20000 RACK - 20000 l/h
UV 80/4 RACK - 30 m³/h
UV 80/5 RACK - 40 m³/h

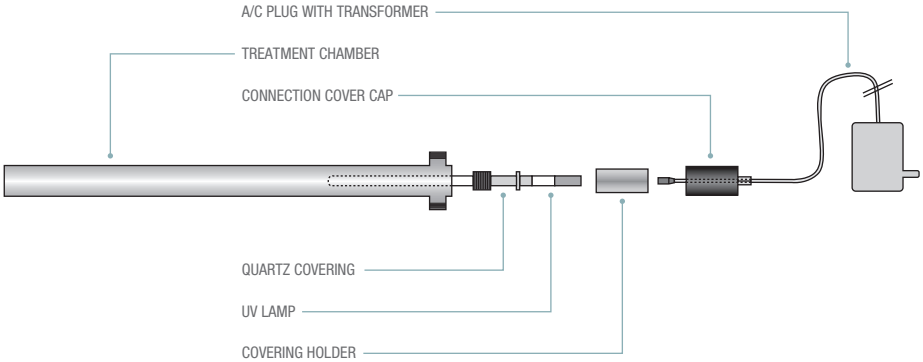


AM TC PLUS SERIES

UV AM 96 TC PLUS - 96 m³/h
UV AM 125 TC PLUS - 125 m³/h

TC SERIES

UV 400/3 TC - 150 m³/h
UV 400/4 TC - 250 m³/h
UV 400/5 TC - 300 m³/h
UV 400/6 TC - 420 m³/h



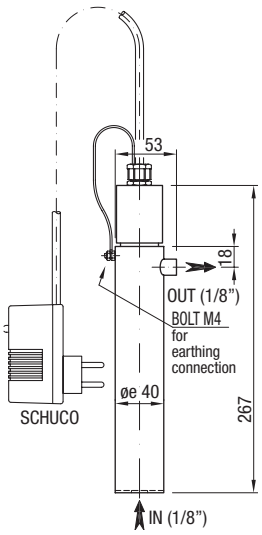
UV 300-600-1200-2800 AL

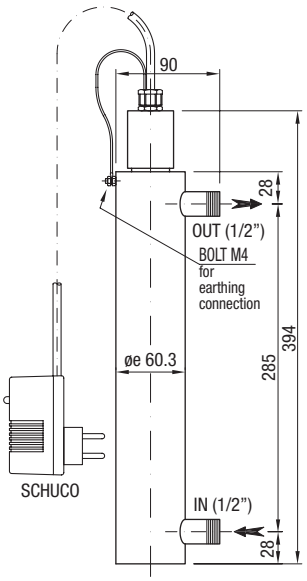
WORKING PRESSURE
9 bar (130 psi)

CHARACTERISTICS
Lamp life-span: 9000 hours
UV-C dose: ≥ 300 J/m²

UV CHAMBER
Material: AISI 304 - optional AISI 316L

TRANSFORMER
Electrical supply: 230V - 50/60 Hz
Red led of anomaly: yes
Connecting wire: 90 cm





UV AL

DEBACTERIZERS WITH POWER SUPPLY

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	IN/OUT
NEA3500001	UV 300 AL	300 l/h	12W	1	1/8"
NEA3500002	UV 600 AL	600 l/h	16W	1	1/2"
NEA3500042	UV 1200 AL	1200 l/h	30W	1	3/4"
NEA3500043	UV 2800 AL	2800 l/h	40W	1	1"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

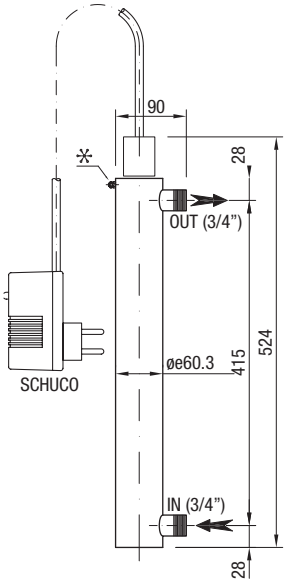
UV 1200-2800 AL²

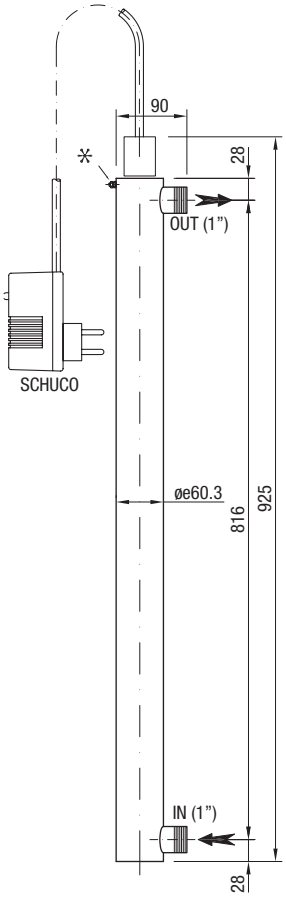
WORKING PRESSURE
9 bar (130 psi)

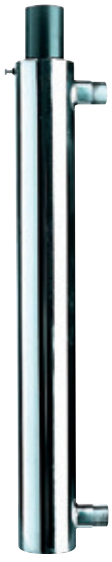
CHARACTERISTICS
Lamp life-span: 9000 hours
UV-C dose: ≥ 300 J/m²

UV CHAMBER
Material: AISI 304 - optional AISI 316L

TRANSFORMER
Electrical supply: 230V - 50/60 Hz
Red led of anomaly: yes
Connecting wire: 90 cm







UV AL - UV AL²

DEBACTERIZERS WITH POWER SUPPLY AND TIMER

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT
NEA3500044	UV 1200 AL²	1200 l/h	30W	1	30 W	3/4"
NEA3500045	UV 2800 AL²	2800 l/h	40W	1	40 W	1"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

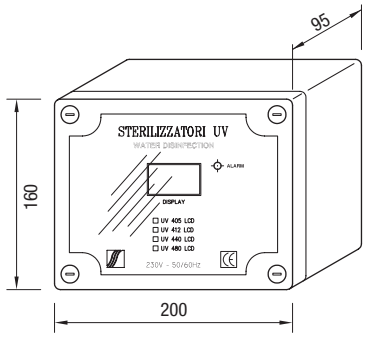
UV 1200-2800 LCD

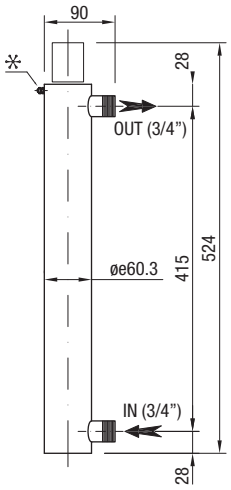
WORKING PRESSURE
9 bar (130 psi)

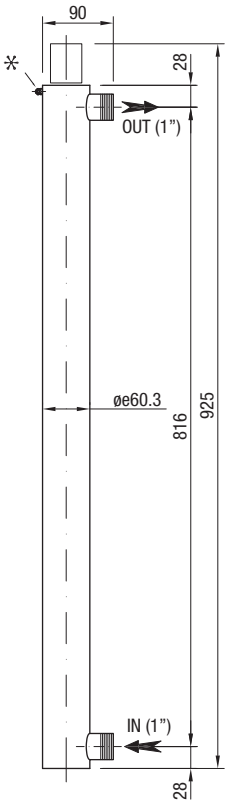
CHARACTERISTICS
Lamp life-span: 9000 hours
UV-C dose: ≥ 300 J/m²
Electrical panel: LCD / LCD PLUS

UV CHAMBER
Material: AISI 304 - optional AISI 316L

ELECTRICAL PANEL







UV 1200-2800 LCD

DEBACTERIZERS WITH LCD/LCD PLUS ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT
NEA3500003	UV 1200 LCD	1200 l/h	30W	1	30 W	3/4"
NEA3500004	UV 2800 LCD	2800 l/h	40W	1	40 W	1"
NEA3500009	UV 1200 LCD PLUS	1200 l/h	30W	1	30 W	3/4"
NEA3500010	UV 2800 LCD PLUS	2800 l/h	40W	1	40 W	1"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

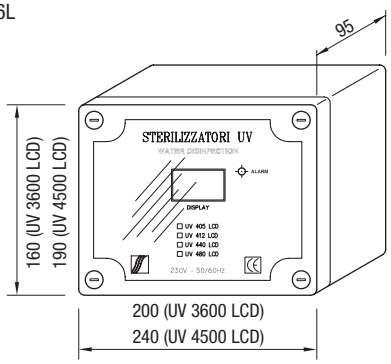
UV 3600-4500 LCD

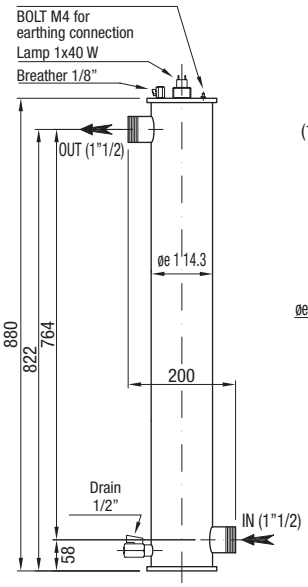
WORKING PRESSURE
9 bar (130 psi)

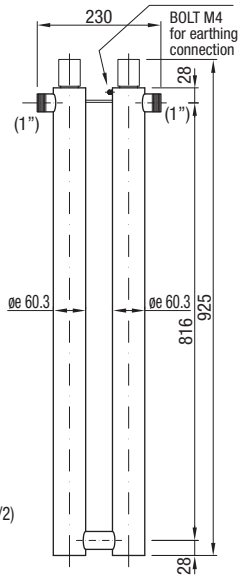
CHARACTERISTICS
Lamp life-span: 9000 hours
UV-C dose: ≥ 300 J/m²
Electrical panel: LCD / LCD PLUS

UV CHAMBER
Material: AISI 304 - optional AISI 316L

ELECTRICAL PANEL







UV 3600-4500 LCD

DEBACTERIZERS WITH LCD/LCD PLUS ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT	DRAIN AND BREATHER
NEA3500005	UV 3600 LCD	3600 l/h	40W	1	40W	1"1/2	1/2" - 1/8"
NEA3500006	UV 4500 LCD	4500 l/h	40W	2	80W	1"	-
NEA3500011	UV 3600 LCD PLUS	3600 l/h	40W	1	40W	1"1/2	1/2" - 1/8"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

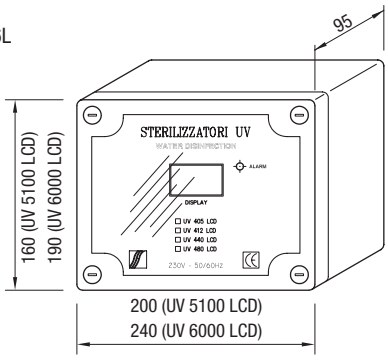
UV 5100-6000 LCD

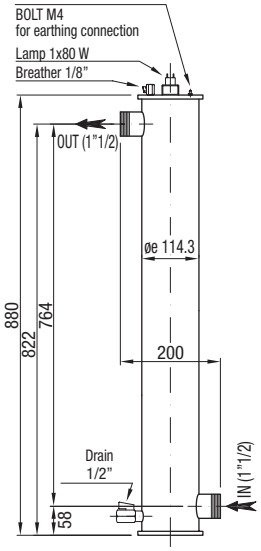
WORKING PRESSURE
9 bar (130 psi)

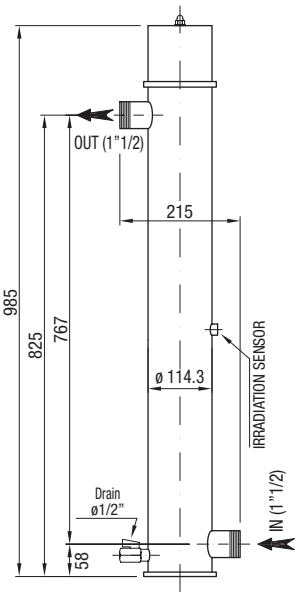
CHARACTERISTICS
Lamp life-span: 9000 hours
UV-C dose UV 5100: ≥ 300 J/m²
UV-C dose UV 6000: ≥ 400 J/m²
Electrical panel: LCD / LCD PLUS

UV CHAMBER
Material: AISI 304 - optional AISI 316L

ELECTRICAL PANEL







UV 5100-6000 LCD

DEBACTERIZERS WITH LCD/LCD PLUS ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT	DRAIN AND BREATHER
NEA3500007	UV 5100 LCD	5100 l/h	80W	1	80W	1"1/2	1/2" - 1/8"
NEA3500008	UV 6000 LCD	6000 l/h	40W	2	80W	1"1/2	1/2" - 1/8"
NEA3500012	UV 5100 LCD PLUS	5100 l/h	80W	1	80W	1"1/2	1/2" - 1/8"
NEA3500013	UV 6000 LCD PLUS	6000 l/h	40W	2	80W	1"1/2	1/2" - 1/8"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

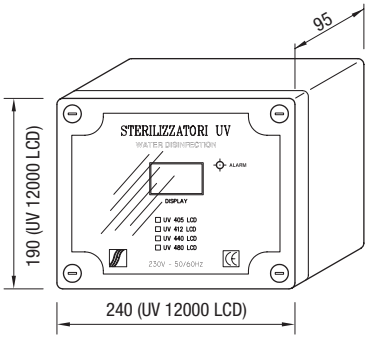
UV 12000 LCD

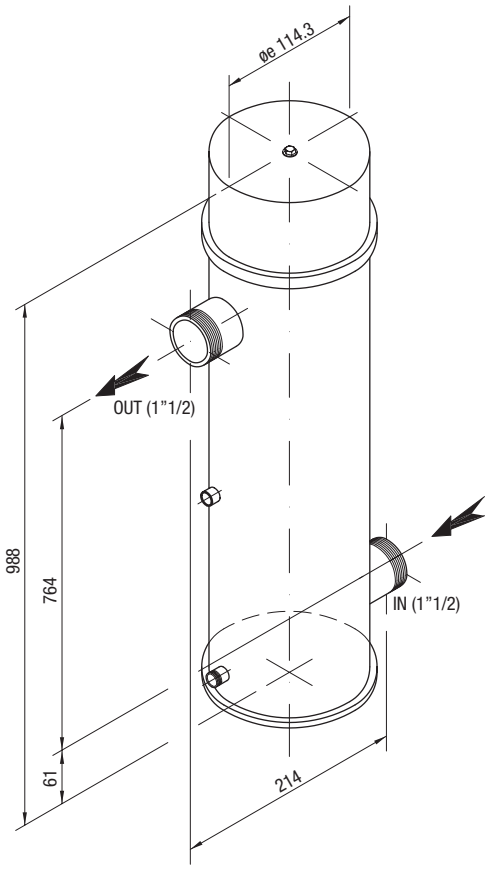
WORKING PRESSURE
9 bar (130 psi)

CHARACTERISTICS
Lamp life-span: 9000 hours
UV-C dose: ≥ 400 J/m²
Electrical panel: LCD / LCD PLUS

UV CHAMBER
Material: AISI 304 - optional AISI 316L

ELECTRICAL PANEL





UV 12000 LCD

DEBACTERIZERS WITH LCD/LCD PLUS ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT	DRAIN AND BREATHER
NEA3500034	UV 12000 LCD	12000 l/h	80W	2	160W	1"1/2M	1/2" - 1/8"
NEA3500035	UV 12000 LCD PLUS	12000 l/h	80W	2	160W	1"1/2M	1/2" - 1/8"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

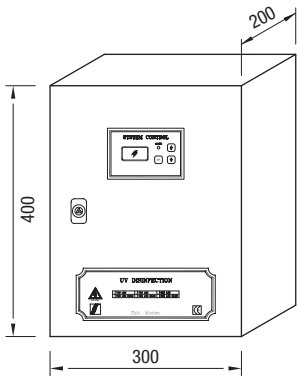
UV 20000 RACK

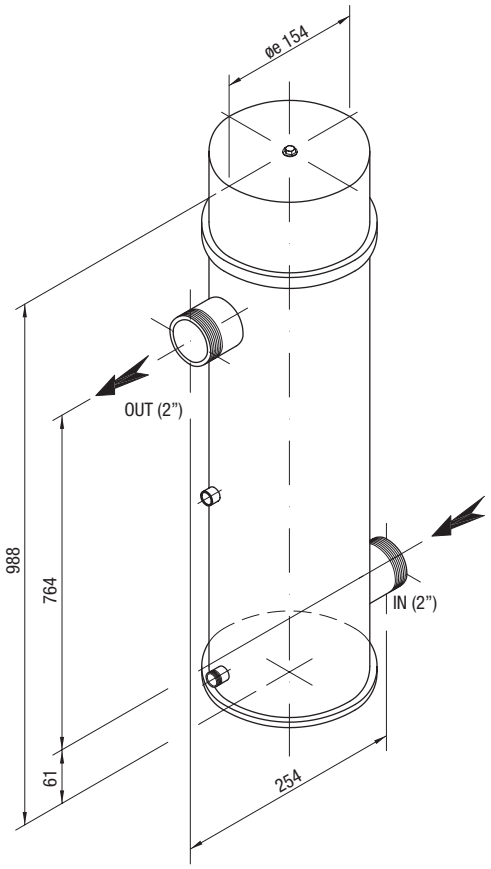
WORKING PRESSURE
9 bar (130 psi)

CHARACTERISTICS
Lamp life-span: 9000 hours
UV-C dose: ≥ 400 J/m²
Electrical panel: RACK / RACK PLUS

UV CHAMBER
Material: AISI 304
optional AISI 316L

ELECTRICAL PANEL





UV 20000 RACK

DEBACTERIZERS WITH RACK / RACK PLUS ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT	DRAIN AND BREATHER
NEA3500016	UV 20000 RACK	20000 l/h	80W	3	240W	2"M	1/2" - 1/8"
NEA3500021	UV 20000 RACK PLUS	20000 l/h	80W	3	240W	2"M	1/2" - 1/8"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

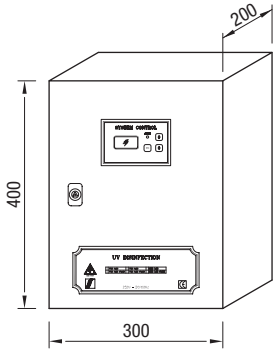
UV 80/4 80/5 RACK

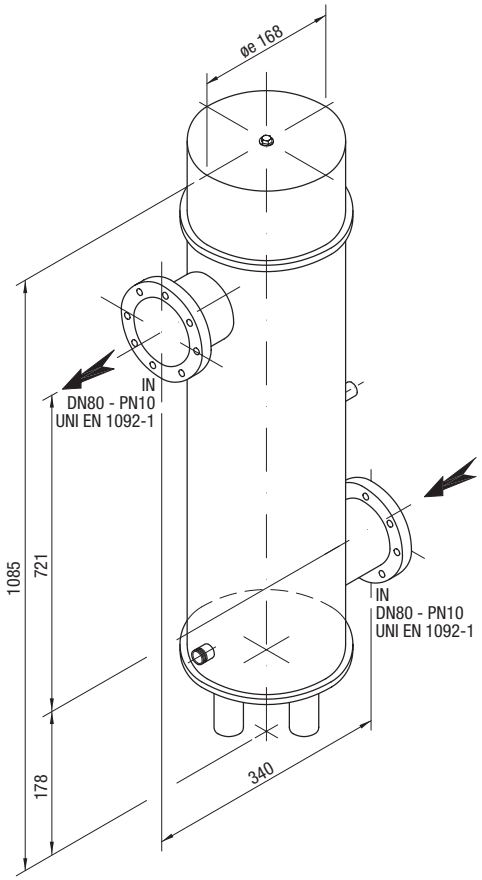
WORKING PRESSURE
9 bar (130 psi)

CHARACTERISTICS
Lamp life-span: 9000 hours
UV-C dose: ≥ 400 J/m²
Electrical panel: RACK / RACK PLUS

UV CHAMBER
Material: AISI 304
optional AISI 316L

ELECTRICAL PANEL





UV 80/4 - 80/5 RACK

DEBACTERIZERS WITH RACK / RACK PLUS ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT	DRAIN AND BREATHER
NEA3500017	UV 80/4 RACK	30 m³/h	80W	4	335W	DN80 - PN 10 bar	1/2" - 1/8"
NEA3500018	UV 80/5 RACK	40 m³/h	80W	5	445W	DN80 - PN 10 bar	1/2" - 1/8"
NEA3500022	UV 80/4 RACK PLUS	30 m³/h	80W	4	335W	DN80 - PN 10 bar	1/2" - 1/8"
NEA3500023	UV 80/5 RACK PLUS	40 m³/h	80W	5	445W	DN80 - PN 10 bar	1/2" - 1/8"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

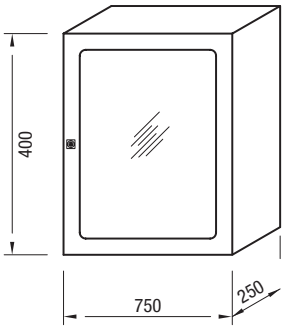
UV AM 96 TC PLUS

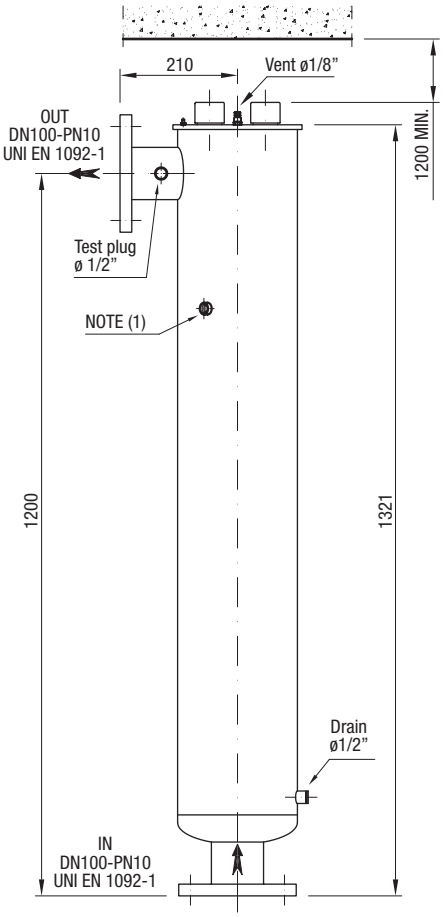
WORKING PRESSURE
10 bar (145 psi)

CHARACTERISTICS
Lamp life-span: 12000 hours
UV-C dose: ≥ 400 J/m²
Electrical panel: AM TC PLUS

UV CHAMBER
Material: AISI 316

ELECTRICAL PANEL





UV AM 96 TC PLUS

DEBACTERIZERS WITH AM TC PLUS ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT	DRAIN AND BREATHER
NEA3500040	UV AM 96 TC PLUS	96 m³/h	200W	3	440W	DN100 - PN 10 bar	1/2" - 1/8"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

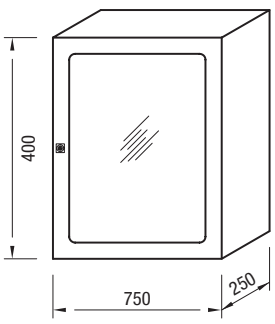
UV AM 125 TC PLUS

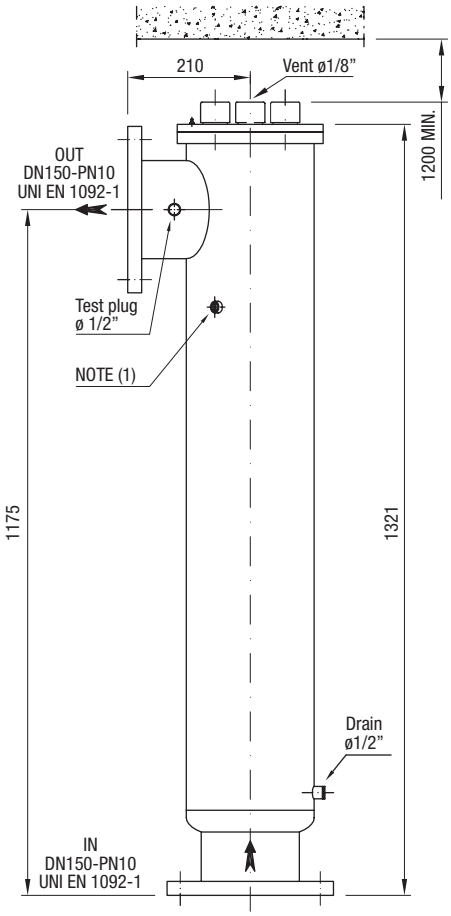
WORKING PRESSURE
10 bar (145 psi)

CHARACTERISTICS
Lamp life-span: 12000 hours
UV-C dose: ≥ 400 J/m²
Electrical panel: DS PLUS

UV CHAMBER
Material: AISI 316

ELECTRICAL PANEL





UV AM 96 TC PLUS

DEBACTERIZERS WITH AM TC PLUS ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT	DRAIN AND BREATHER
NEA3500041	UV AM 125 TC PLUS	125 m³/h	200W	4	880W	DN150 - PN 10 bar	1/2" - 1/8"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

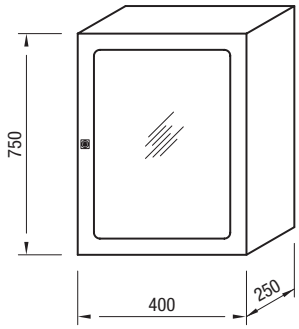
UV 400/3 TC

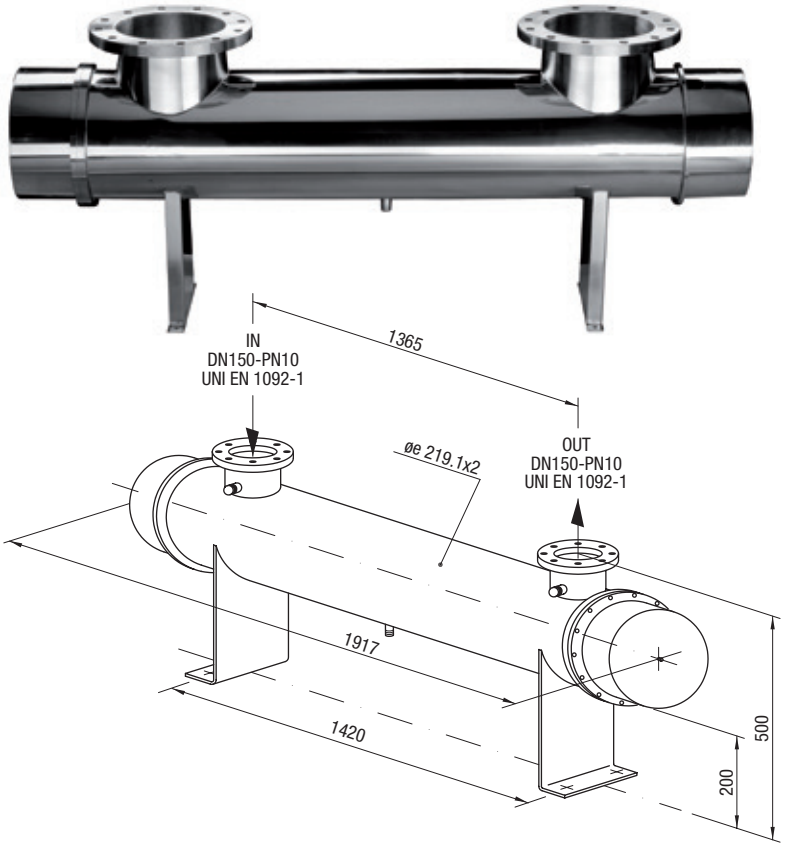
WORKING PRESSURE
9 bar (130 psi)

CHARACTERISTICS
Lamp life-span: 14000 hours
UV-C dose: ≥ 400 J/m²
Electrical panel: DS PLUS

UV CHAMBER
Material: AISI 316L

ELECTRICAL PANEL





UV 400/3 TC

DEBACTERIZERS WITH TC ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT	DRAIN AND BREATHER
NEA3500030	UV400/3 TC	150 m³/h	400W	3	1300W	DN 150 - PN 10 bar	1/2" - 1/8"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

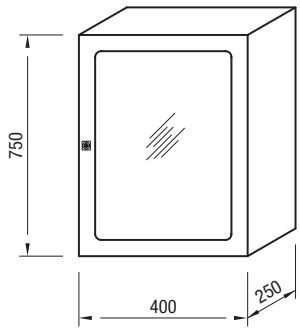
UV 400/4 TC

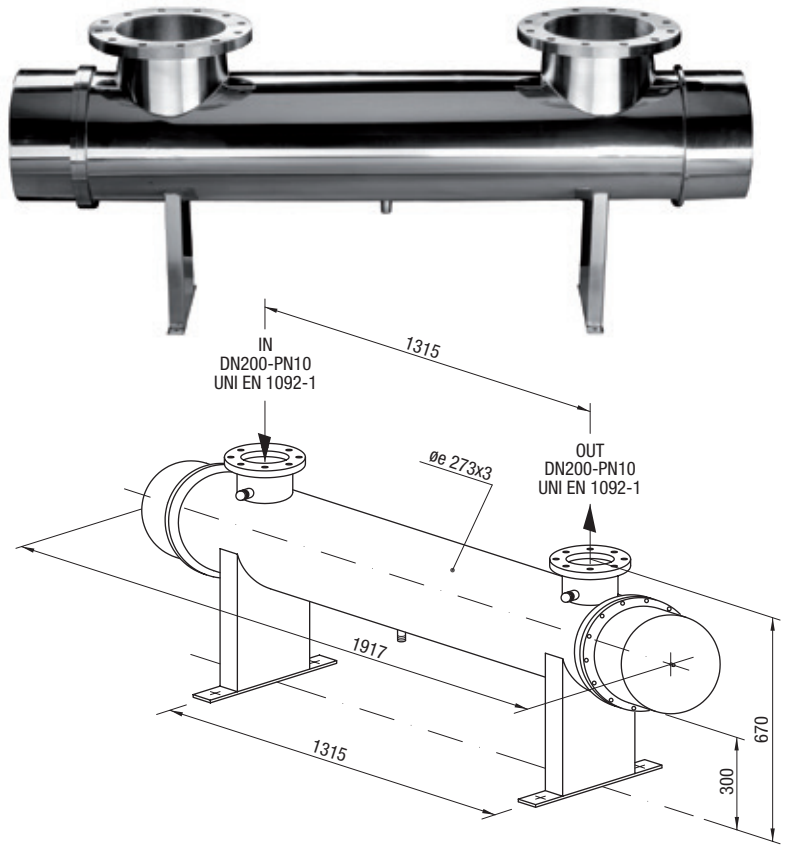
WORKING PRESSURE
9 bar (130 psi)

CHARACTERISTICS
Lamp life-span: 14000 hours
UV-C dose: ≥ 400 J/m²
Electrical panel: DS PLUS

UV CHAMBER
Material: AISI 316L

ELECTRICAL PANEL





UV 400/4 TC

DEBACTERIZERS WITH TC ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT	DRAIN AND BREATHER
NEA3500031	UV400/4 TC	250 m³/h	400W	4	1760W	DN 200 - PN 10 bar	1/2" - 1/8"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

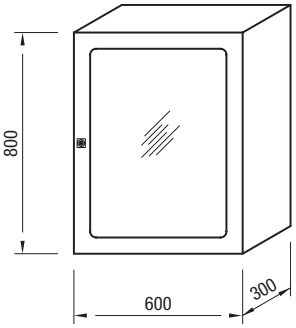
UV 400/5 TC

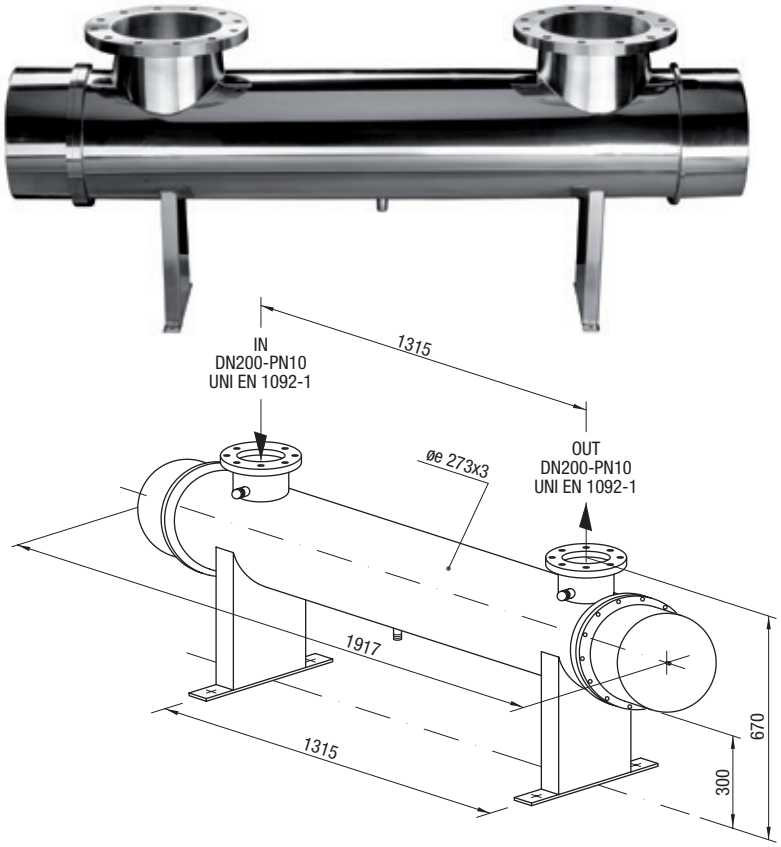
WORKING PRESSURE
9 bar (130 psi)

CHARACTERISTICS
Lamp life-span: 14000 hours
UV-C dose: ≥ 400 J/m²
Electrical panel: DS PLUS

UV CHAMBER
Material: AISI 316L

ELECTRICAL PANEL





UV 400/5 TC

DEBACTERIZERS WITH TC ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT	DRAIN AND BREATHER
NEA3500032	UV400/5 TC	300 m³/h	400W	5	2180W	DN 200 - PN 10 bar	1/2" - 1/8"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

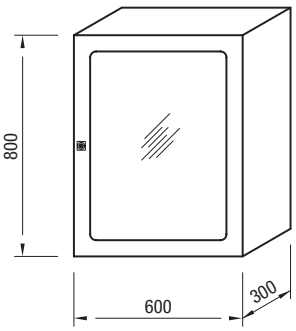
UV 400/6 TC

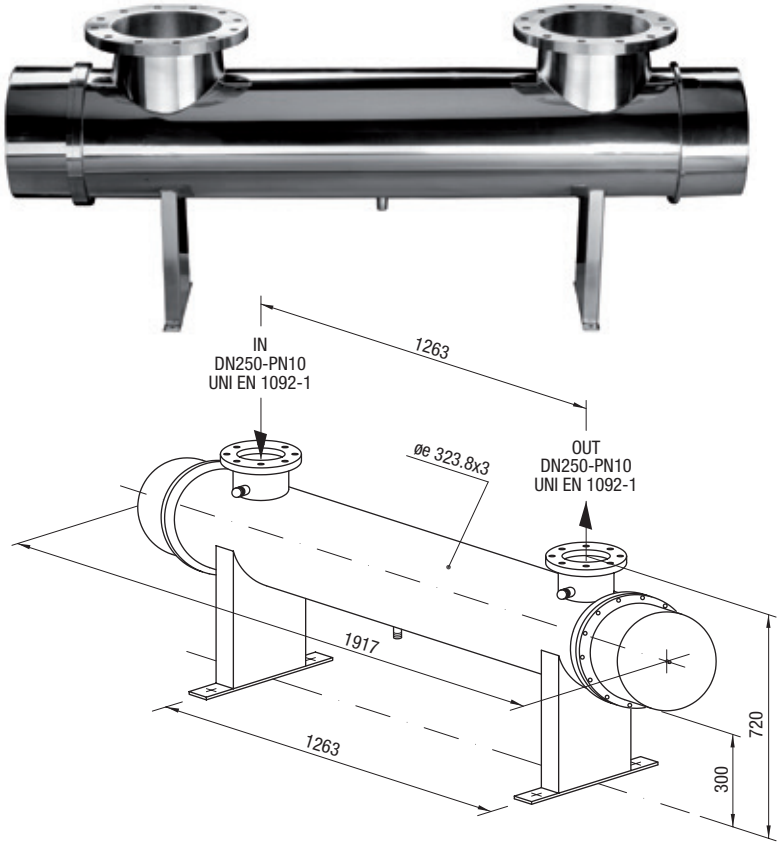
WORKING PRESSURE
9 bar (130 psi)

CHARACTERISTICS
Lamp life-span: 14000 hours
UV-C dose: ≥ 400 J/m²
Electrical panel: DS PLUS

UV CHAMBER
Material: AISI 316L

ELECTRICAL PANEL





UV 400/6 TC

DEBACTERIZERS WITH TC ELECTRICAL PANEL

PART NUMBER	MODEL	MAX FLOW RATE	UV LAMP	NUMBER OF UV LAMP	ELECTRICAL ABSORPTION	IN/OUT	DRAIN AND BREATHER
NEA3500033	UV400/6 TC	420 m³/h	400W	6	2600W	DN 250 - PN 10 bar	1/2" - 1/8"

Dose valid with transmittance 99% at 1 cm - T 20°C - after 9000 hours

ELECTRICAL PANELS

For UV disinfection systems

CHARACTERISTICS

Always careful about the technological innovations and the constant changes of the market, with the NEW SERIES OF UVC RAYS EQUIPMENTS, ATLAS FILTRI intends to propose an innovating and, as always, high quality product: THE LCD SERIES, RACK SERIES and AM TC PLUS / TC SERIES ELECTRICAL PANELS. The new electrical panels have been provided with a LCD display, which visualize the working hour of the lamps, the lamps faults, the irradiance and the temperature (Plus version). The new control panels of LCD SERIES, RACK SERIES and TC SERIES - with moderate dimensions - have been designed to facilitate the operations of installation and servicing.

LCD - LCD PLUS

FOR UV - INDUSTRIAL SERIES -

	LCD	LCD PLUS
Electrical alimentation 230V - 50/60 Hz	•	•
Protection degree IP55	•	•
Power cable 100 cm	•	•
Cable lamps 100 cm	•	•
LCD Display with microprocessor control	•	•
Count down hour-meter	•	•
Red led of anomaly	•	•
Alarm relay free contact NO/NC	•	•
Alarm relay 230 V NO/NC outlet - 2 A max	•	•
Display of Irradiation / temperature control		•
Shutdown for high temperature UV chamber		•
Resettable count down hour-meter with alarm for end lamp life		•

RACK - RACK PLUS

FOR UV - RACK SERIES -

	RACK	RACK PLUS
Electrical alimentation 230V - 50/60 Hz	•	•
Protection degree IP55	•	•
Power cable 150 cm	•	•
Cable lamps 250 cm	•	•
LCD Display with microprocessor control	•	•
Resettable count down hour-meter with alarm for end lamp life	•	•
Alarm for end lamp life	•	•
Red led of anomaly	•	•
Alarm relay free contact NO/NC	•	•
Alarm relay 230 V NO/NC outlet - 2 A max	•	•
Display of Irradiation / temperature control		•
Shutdown for high temperature UV chamber		•

AM TC PLUS - TC

FOR UV - AM TC PLUS-TC SERIES -

	AM TC PLUS - TC
Protection degree IP54	•
Touch-screen (65000 colours)	•
Multilanguage display	•
Hour meters (system and lamp life)	•
Digital outputs	•
Display of Irradiation / temperature control	•
Remote on/off	•
4/20 mA contact	•
Timer on/off	•
Datalog - events	•
CAN, ethernet, USB, seriale (modbus, TCP/IP, CANopen)	•
Remote access with app or web gate	•

ACCESSORI E RICAMBI | SISTEMI di DISINFEZIONE UV

CODICE	MODELLO
NEA3505001	12W UV LAMP
NEA3505002	16W UV LAMP
NEA3505010	QUARTZ SHEATH FOR 12W UV LAMP
NEA3505011	QUARTZ SHEATH FOR 16W UV LAMP
NEA3505003	30W UV LAMP
NEA3505004	40W UV LAMP
NEA3505005	80W UV LAMP
NEA3505012	QUARTZ SHEATH FOR 30W UV LAMP
NEA3505013	QUARTZ SHEATH FOR 40W-80W UV LAMP
NEA3505007	200W UV LAMP
NEA3505006	400W UV LAMP
NEA3505014	QUARTZ SHEATH FOR 200W UV LAMP
NEA3515018	POWER SUPPLY FOR UV 300 - 600 AL
NEA3515031	POWER SUPPLY FOR UV 1200 - 2800 AL
NEA3515056	POWER SUPPLY FOR UV 1200 - 2800 AL 2
NEA3515022	COMPLETE PANEL UV 1200 - 2800 LCD

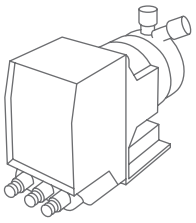
DOSING PUMPS

The water coming from municipal supplies or from autonomous sources required for any use (potable, sanitary or industrial) may come to the use with various issues such as microbial contamination, excess in acidity, alcalinity or hardness, presence of algae, etc.
In such cases it is necessary a water treatment with specific chemical products using dosing pumps which deliver the chemical products with the required amount perfectly measured and regulated.
The installation of dosing pumps is very simple and normally arranged upstream the water treatment equiments or plants to be protected.

ATLAS FILTRI provides a wide range of DOSING PUMPS, with constant or proportional dosing mode, making it possible to respond every kind of requirement in water treatment for house and industry, for small and large equipments and plants.

All dosing pumps can be supplied stand alone or assembled on dedicated tanks. The dosing pumps are manufactured using top quality materials to obtain the best performances and operate within the highest safety.

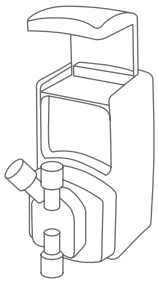
THE RANGE



KMS MF
Digital multifunction pump.

K PLUS
Constant-proportional pump driven by external digital signal.

KCL PLUS
Constant pump with level control, stroke speed (frequency) adjustment and a divider mode to reduce by 10 times the pump capacity.



VMS MF
Digital multifunction pump.

VCL
Constant pump with level control, stroke speed (frequency) adjustment and a divider mode to reduce by 10 times the pump capacity.

- Anti-legionella dosing stations
- TURBINE pulse emitter water meter
- WOLTMANN pulse emitter water meter
- TANKS - safety BAFFLES
- BRACKETS - SUPPORTS
- LASP suction lances
- LINR-V injection lances

KMS MF

Digital multifunction pump (Constant, Divide, Multiply, PPM, Batch, Volt, mA), stand-by and flow sensor input, alarm output and level control.

COLDWATER

SPECIFICATIONS

Min strokes hour: 1
Max strokes minute: 180
Stroke length range reliability: from 30% to 100%
Power consumption at max flow (230VAC): 19 Watt
Power supply: 230 VAC (190÷265 VAC)

LIQUID ENDS

Head: PVDF
O-rings: Viton®
Body valves: PVDF
Balls valves: Ceramic
Diaphragm: PTFE
Delivery hoses: PVDF
Suction hoses: PVC
Viscosity max CPS: 100
Other materiali configurations available on request

Viton® is a registered trademark DuPont Dow Elastomers.

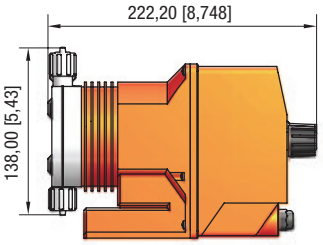
KMS MF

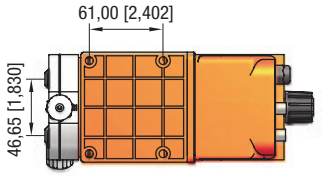
DIGITAL MULTIFUNCTION PUMP

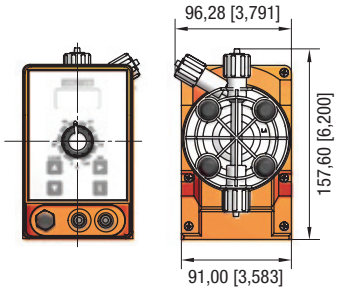
CODE NUMBER	MODEL	HOSES	PUMP HEAD	FLOW				CC PER STROKE		MAX PRESSURE	WEIGHT
				MIN CC/H	MAX L/H	MIN GPH	MAX GPH	MIN	MAX		
NEA2000001	DOSING PUMP KMS MF 1802	4x6	3/8"	0.06	2	0.000016	0.53	0.06	0.19	18 bar / 261 psi	4.1 Kg
NEA2000002	DOSING PUMP KMS MF 1005	4x6	3/8"	0.14	5	0.000037	1.32	0.14	0.46	10 bar / 145 psi	4.1 Kg
NEA2000003	DOSING PUMP KMS MF 0808	4x6	3/8"	0.22	8	0.000058	2.11	0.22	0.74	8 bar / 116 psi	4.1 Kg

Protection rating IP65 (NEMA4x)

"KMS DIGITAL" series dosing pumps are made from glass-filled polypropylene, which provides suitable protection against the damaging effects of chemicals and the environment.







DESCRIPTION

Horizontal-mounted dosing pump with microprocessor, LCD display, multi-functions: proportional with analogue/digital signals with level control, dual flow regulation, dosing intervals and single injection programmable in 7 different models.

7 OPERATING MODES

CONSTANT. The pump doses at constant intervals.

DIVIDE. Pulses supplied by a water meter connected to the pump are divided by the value entered during programming and determine its dosing interval.

MULTIPLY. Pulses supplied by a water meter connected to the pump are multiplied by the value entered during programming and determine its dosing interval.

PPM. Pulses supplied by a water meter connected to the pump determine dosing based on the set PPM value. The concentration of the product dosed and amount per stroke must be set during programming.

BATCH. The pulse supplied by an external contact starts dosing of the amount of product set during programming.

VOLT. The voltage supplied to the pump (by means of the input signal) determines proportional dosing based on the two minimum and maximum values that have been set for the strokes/minute during programming.

mA. The current supplied to the pump (by means of the input signal) determines proportional dosing based on the two minimum and maximum values that have been set for the strokes/minute during programming.

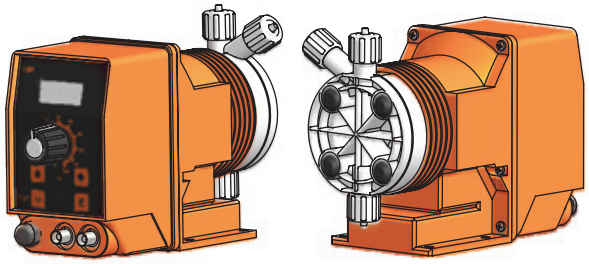
Mains frequency synchronization so that the magnet receives the same energy every time, providing greater dosing accuracy and longer magnet life.

POWER SUPPLY: 230 V. Other power ratings available on request.

Other models with different pressure / flow rate available on request.

SPARE PARTS:

level control probe



K PLUS - KCL PLUS

Constant-proportional pump driven by external digital signal with pulse divider mode and level control.

COLDWATER

SPECIFICATIONS

Min strokes hour: 1
Max strokes minute: 180
Stroke length range reliability: from 30% to 100%
Power consumption at max flow (230VAC): 19 Watt
Power supply: 230 VAC (190÷265 VAC)

LIQUID ENDS

Head: PVDF
O-rings: Viton®
Body valves: PVDF
Balls valves: Ceramic
Diaphragm: PTFE
Delivery hoses: PVDF
Suction hoses: PVC
Viscosity max CPS: 100
Other materiali configurations available on request

Viton® is a registered trademark DuPont Dow Elastomers.

K PLUS

CONSTANT-PROPORTIONAL PUMP

CODE NUMBER	MODEL	HOSES	PUMP HEAD	FLOW				CC PER STROKE		MAX PRESSURE	WEIGHT
				MIN CC/H	MAX L/H	MIN GPH	MAX GPH	MIN	MAX		
NEA2000004	DOSING PUMP K PLUS 1802	4x6	3/8"	61.56	2	0.016	0.53	0.06	0.19	18 bar / 261 psi	4.1 Kg
NEA2000005	DOSING PUMP K PLUS 1005	4x6	3/8"	151.2	5	0.040	1.32	0.14	0.46	10 bar / 145 psi	4.1 Kg
NEA2000006	DOSING PUMP K PLUS 0808	4x6	3/8"	237.6	8	0.063	2.11	0.22	0.74	8 bar / 116 psi	4.1 Kg

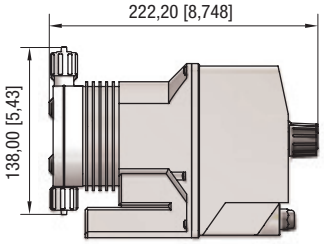
KCL PLUS

CONSTANT PUMP

CODE NUMBER	MODEL	HOSES	PUMP HEAD	FLOW				CC PER STROKE		MAX PRESSURE	WEIGHT
				MIN CC/H	MAX L/H	MIN GPH	MAX GPH	MIN	MAX		
NEA2000007	DOSING PUMP KCL 1802	4x6	3/8"	61.56	2	0.016	0.53	0.06	0.19	18 bar / 261 psi	4.1 Kg
NEA2000008	DOSING PUMP KCL 1005	4x6	3/8"	151.2	5	0.040	1.32	0.14	0.46	10 bar / 145 psi	4.1 Kg
NEA2000009	DOSING PUMP KCL 0808	4x6	3/8"	237.6	8	0.063	2.11	0.22	0.74	8 bar / 116 psi	4.1 Kg

Protection rating IP65 (NEMA4x)

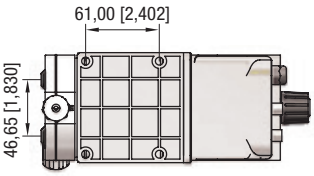
"K" series dosing pumps are made from glass-filled polypropylene, which provides suitable protection against the damaging effects of chemicals and the environment.



DESCRIZIONE

K PLUS - Constant and proportional pump driven by external digital signal with level control. It works in pulse divider mode (ratio from 1 to 1000) or in pulse multiplier mode (ratio from 1 to 10). With stroke speed (frequency) adjustment and stroke length adjustment. Multiplier (1-10), current signal 4-20 mA.
KCL PLUS - Constant pump with stroke speed (frequency) adjustment, stroke length adjustment and level control.

Power supply continuous sampling ensures always the same energy to the solenoid in order to have the same stroke length and power giving longer life to the pump and more accurate dosing.



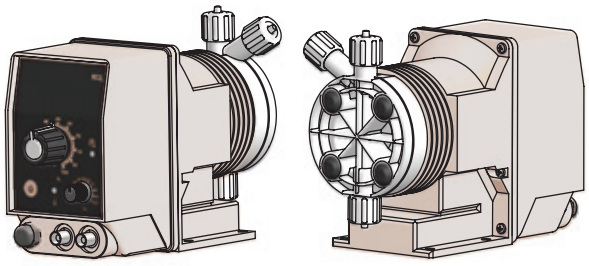
POWER SUPPLY: 230 V. Different power supply available on demand.

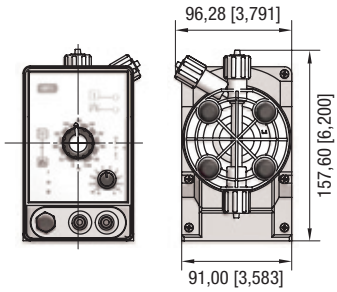
Alarm activation by flow sensor on demand.

Other models with different pressure / flow rate available on request.

SPARE PARTS:

level control probe





VMS MF

Digital multifunction pump (Constant, Divide, Multiply, PPM, Batch, Volt, mA), stand-by and flow sensor input, alarm output, level control.

COLDWATER

SPECIFICATIONS

Min strokes hour: 1
Max strokes minute: 180
Power consumption at max flow (230VAC): 16 Watt (22 Watt for 1010 model)
Power supply: 230 VAC (190÷265 VAC)

LIQUID ENDS

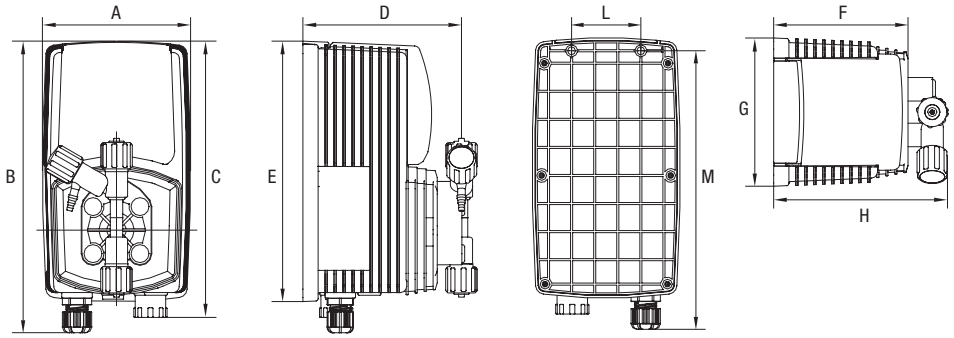
Head: PVDF
O-rings: Viton®
Body valves: PVDF
Balls valves: Ceramic
Diaphragm: PTFE
Delivery hoses: PVDF
Suction hoses: PVC
Viscosity max CPS: 100
Other materiali configurations available on request

Viton® is a registered trademark DuPont Dow Elastomers.

VMS MF

DIGITAL MULTIFUNCTION PUMP

CODE NUMBER	MODEL	HOSES	FLOW				CC PER STROKE	MAX PRESSURE	WEIGHT
			MIN CC/H	MAX L/H	MIN GPH	MAX GPH			
NEA2000010	DOSING PUMP VMS MF 1802	4x6	0.19	2	0.00005	0.52	0.19	8 bar / 261 psi	2,2 Kg
NEA2000041	DOSING PUMP VMS MF 1502	4x6	0.19	2	0.00005	0.52	0.19	15 bar / 218 psi	2,2 Kg
NEA2000011	DOSING PUMP VMS MF 1005	4x6	0.46	5	0.00012	1.32	0.46	10 bar / 145 psi	2,2 Kg
NEA2000012	DOSING PUMP VMS MF 1010	4x7	0.93	10	0.00024	2.64	0.93	10 bar / 145 psi	2,2 Kg



DIMENSION

	mm
A	106.96
B	210.44
C	199.44
D	114.50
E	187.96
F	97.00
G	106.96
H	125.47
L	50.00
M	201.00

Protection rating IP65 (NEMA4x))

"V" series dosing pumps are made from glass-filled polypropylene, which provides suitable protection against the damaging effects of chemicals and the environment.

DESCRIPTION

Vertical-mounted dosing pump with microprocessor, mechanically adjusted single injection, constant with flow regulation and level control. Digital multi-function pump with standby input, flow sensor input and alarm output.

7 OPERATING MODES

CONSTANT. The pump doses at constant intervals.
DIVIDE. Pulses supplied by a water meter connected to the pump are divided by the value entered during programming and determine its dosing interval.
MULTIPLY. Pulses supplied by a water meter connected to the pump are multiplied by the value entered during programming and determine its dosing interval.
PPM. Pulses supplied by a water meter connected to the pump determine dosing based on the set PPM value. The concentration of the product dosed and amount per stroke must be set during programming.
BATCH. The pulse supplied by an external contact starts dosing of the amount of product set during programming.
VOLT. The voltage supplied to the pump (by means of the input signal) determines proportional dosing based on the two minimum and maximum values that have been set for the strokes/minute during programming.
mA. The current supplied to the pump (by means of the input signal) determines proportional dosing based on the two minimum and maximum values that have been set for the strokes/minute during programming.

POWER SUPPLY: 230 V. Different power supply available on demand.

Other models with different pressure / flow rate available on request.

SPARE PARTS:

level control probe

VCL

VCL Constant Pump with level control, stroke speed adjustment.

COLDWATER

SPECIFICATIONS

Min strokes hour: 1
Max strokes minute: 180
Power consumption at max flow (230VAC): 16 Watt (22 Watt for 1010 model)
Power supply: 230 VAC (190÷265 VAC)

LIQUID ENDS

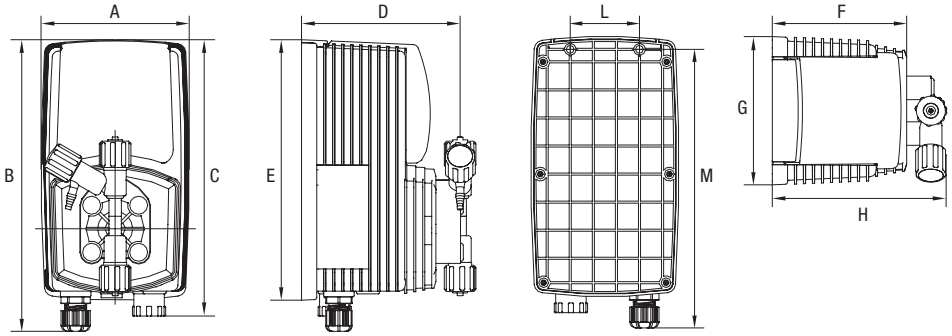
Head: PVDF
O-rings: Viton®
Body valves: PVDF
Balls valves: Ceramic
Diaphragm: PTFE
Delivery hoses: PVDF
Suction hoses: PVC
Viscosity max CPS: 100
Other materiali configurations available on request

Viton® is a registered trademark DuPont Dow Elastomers.

VCL

CONSTANT PUMP

CODE NUMBER	MODEL	HOSES	FLOW				CC PER STROKE	MAX PRESSURE	WEIGHT
			MIN CC/H	MAX L/H	MIN GPH	MAX GPH			
NEA2000013	POMPA DOSATRICE V CL 1802	4x6	60	2	0.02	0.52	0.19	18 bar / 261 psi	2,2 Kg
NEA2000042	POMPA DOSATRICE V CL 1502	4x6	60	2	0.02	0.52	0.19	15 bar / 218 psi	2,2 Kg
NEA2000014	POMPA DOSATRICE V CL 1005	4x6	140	5	0.04	1.32	0.46	10 bar / 145 psi	2,2 Kg
NEA2000015	POMPA DOSATRICE V CL 1010	4x7	280	10	0.07	2.64	0.93	10 bar / 145 psi	2,2 Kg



DIMENSION

	mm
A	106.96
B	210.44
C	199.44
D	114.50
E	187.96
F	97.00
G	106.96
H	125.47
L	50.00
M	201.00

Protection rating IP65 (NEMA4x))

"V" series dosing pumps are made from glass-filled polypropylene, which provides suitable protection against the damaging effects of chemicals and the environment.

DESCRIPTION

VCL Constant Pump with level control, stroke speed adjustment.

POWER SUPPLY: 230 V. Different power supply available on demand.

Other models with different pressure / flow rate available on request.

SPARE PARTS:

level control probe

ANTI-LEGIONELLA dosing stations

Double pump anti-legionella panel

PART NUMBER	MODEL	DIMENSIONS mm
NEA2000045	ATLAS LEGIO EASY PLUS	400 x 600

Triple pump anti-legionella panel

PART NUMBER	MODEL	DIMENSIONS mm
NEA2000046	ATLAS LEGIO EASY PLUS 3	400 x 600

Panel to measure and dose domestic hot water disinfectants

PART NUMBER	MODEL	DIMENSIONS mm
NEA2000047	ATLAS LEGIO PRO	800 x 800

OPTIONAL ON REQUEST ATLAS LEGIO PRO: FOR INFORMATION PLEASE CONTACT OUR TECHNICAL DEPARTMENT

Chlorine Dioxide Generator

PART NUMBER	MODEL
NEA2005026	ATLAS DIOXIDE

OPTIONAL ON REQUEST ATLAS LEGIO PRO: FOR INFORMATION PLEASE CONTACT OUR TECHNICAL DEPARTMENT

TURBINE pulse emitter water meter

MAX WORKING PRESSURE
16 bar (232 psi)

COLDWATER

SPECIFICATIONS

Threaded pulse emitter water meter for cold water, single (mod. 15 - 20 - 25 - 30 - 40) and multiple (mod. 50) jet counter with wet or dry dial.

- Thread sizes range: from 1/2" to 2".
- Brass case and head (except for 50mm 2" model with cast iron case and head).
- Working temperature: cold water up to 30° C.
- 2m cable length (RG58), equipped with BNC connector.
- Reed contact with 10^9 closing operations.
- Max voltage 250 VAC, 200 VDC.
- Max current 1.0 A.
- Max power 10 VA.

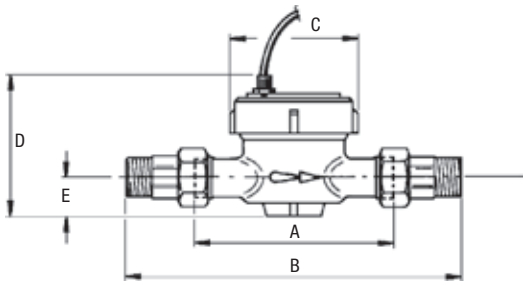
CTFI

TURBINE pulse emitter water meter

PART NUMBER	MODEL	IN/OUT	WEIGHT WITH HOSE FITTING kg	GAUGE mm	DIMENSIONS mm A	B	C	D	E
NEA2000016	PULSE EMITTER WATER METER CTFI15 - 1/2"	1/2"	0,85	15	110	190	80	110	24
NEA2000017	PULSE EMITTER WATER METER CTFI20 - 3/4"	3/4"	1,1	20	130	228	80	110	24
NEA2000018	PULSE EMITTER WATER METER CTFI25 - 1"	1"	1,75	25	160	260	100	132	34
NEA2000019	PULSE EMITTER WATER METER CTFI30 - 1"1/4	1"1/4	2	30	160	280	100	132	34
NEA2000020	PULSE EMITTER WATER METER CTFI40 - 1"1/2	1"1/2	3,46	40	200	340	110	137	42
NEA2000021	PULSE EMITTER WATER METER CTFI50 - 2"	2"	-	50	300	-	108	130,5	50,5

FEATURES

	CTFI15	CTFI20	CTFI25	CTFI30	CTFI40	CTFI50
CEE approval number	B93 320 1	B93 320 2	B97 320 3	B97 320 4	B99 320 11	B02 320 13
Inertial breaking	10	15	20	20	25	50
Max temporary flow delivery m^3/h	3	5	7	10	20	30
Flow delivery with 10 m of load loss m^3/h	3	5	7	10	20	30
Nominal flow rate m^3/h	1.5	2.5	3.5	5	10	15
First precision delivery ±5% l/h	30	50	70	100	200	450
Second precision delivery ±2% l/h	120	200	280	400	800	3000
Minimum reading l	0.1	0.1	0.1	0.1	0.1	0.5
Maximum reading m^3	10^5	10^5	10^5	10^5	10^5	10^6
Turbine revs per liter g/l	34.8	22.5	11.7	11.7	4.5	3.16



WOLTMANN pulse emitter water meter

With dry dial

MAX WORKING PRESSURE
16 bar (232 psi)

COLDWATER

SPECIFICATIONS
Dry dial.
- Flange sizes range: from 2" (DN 50) to 8" (DN 200).
- Woltmann water meter for horizontal and vertical assembly.
- Working temperature: cold water up to 50°.
- Epoxy coated cast iron housing.
- Max voltage 250 VAC, 200 VDC.
- Max current 1.0 A.
- Max power 10 VA.
- Available water meter without pulse emitter.

CWFA

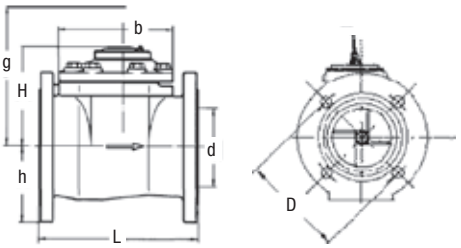
WOLTMANN pulse emitter water meter

PART NUMBER	MODEL	IN/OUT	WEIGHT Kg	GAUGE mm	DIMENSIONS mm L	H	h	g	b	B	D	HOLES NUMBERS
NEA2000022	PULSE EMITTER WATER METER CWFA 50	DN 50	12.5	50	200	129	78	254	166	135	125	4
NEA2000023	PULSE EMITTER WATER METER CWFA 65	DN 65	13	65	200	129	86	254	186	150	145	4
NEA2000024	PULSE EMITTER WATER METER CWFA 80	DN 80	15.5	80	225	140	94	265	200	155	160	8
NEA2000025	PULSE EMITTER WATER METER CWFA 100	DN 100	19.5	100	250	140	106	265	228	155	180	8
NEA2000026	PULSE EMITTER WATER METER CWFA 120	DN 150	40	150	300	212	143	460	300	210	240	8
NEA2000027	PULSE EMITTER WATER METER CWFA 200	DN 200	50	200	350	212	180	460	375	210	295	12

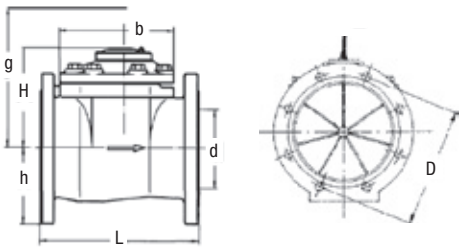
FEATURES

	CWFA 50	CWFA 65	CWFA 80	CWFA 100	CWFA 120	CWFA 200
Inertial breaking m^3/h	0,2	0,25	0,25	0,3	1,7	1,8
Max temporary flow delivery m^3/h	30	50	80	120	300	500
Flow delivery with 1 m of load loss m^3/h	20	55	90	140	410	610
Nominal flow rate m^3/h	15	25	40	60	150	250
First precision delivery ±2% Qt m^3/h	2	4	4	6	12	12
Second precision delivery ±2% Qmin m^3/h	0,55	0,6	0,7	1,2	3	5
Minimum reading l	1	1	1	10	10	100
Maximum reading m^3	10^6	10^6	10^6	10^7	10^7	10^8

Gauge 50 - 65 mm



Gauge 80 -100 - 150 - 200 mm



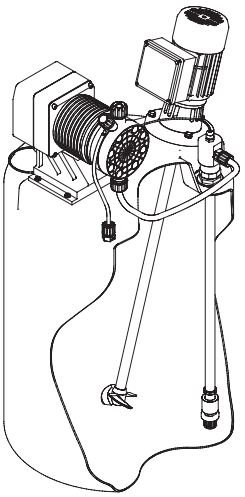
TANKS
safety BAFFLES

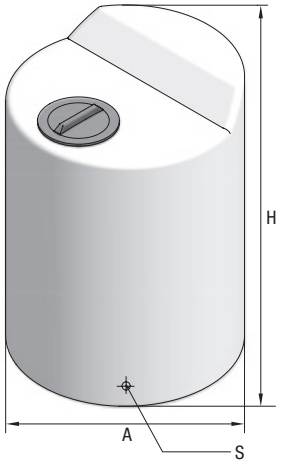
TANKS
Tanks for chemicals dosing made of reinforced polyethylene, cylindrical-vertical shape. Flat bottom side. Upper side is available for dosing pumps (with or without brackets), suction lances and mixers installation. With chemical load hatch and level indicator.

Safety BAFFLES
Safety baffle with flat bottom, “all open” with reinforced border. Made of polythylene. Conceived as safety or restraint tank, for “CNT” tanks series.

TANKS

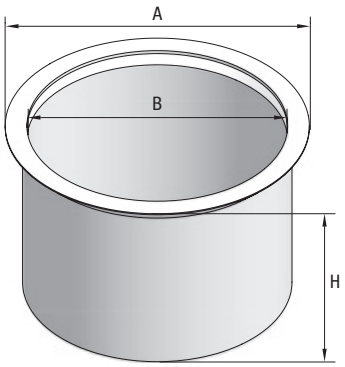
PART NUMBER	MODEL	CAPACITY (Lt)	DIMENSIONS mm A	H	S
NEA2000028	SERBATOIO CNT50	50	Ø 420	505	1/2” F
NEA2000029	SERBATOIO CNT110	120	Ø 495	735	1/2” F
NEA2000030	SERBATOIO CNT200	250	Ø 610	850	1/2” F
NEA2000031	SERBATOIO CNT500	500	Ø 780	1200	1” F





SAFETY BAFFLES
for CNT container

PART NUMBER	MODEL	CAPACITY (Lt)	DIMENSIONS mm A	B	H
NEA2000032	VASCA DI SICUREZZA COS60	60	510	430	425
NEA2000033	VASCA DI SICUREZZA COS110	120	545	520	615
NEA2000034	VASCA DI SICUREZZA COS200	300	695	660	875
NEA2000035	VASCA DI SICUREZZA COS500	600	840	820	1095

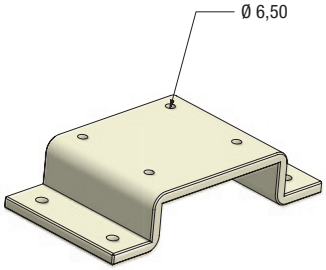


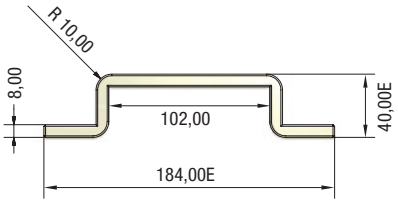
BRACKETS - SUPPORTS

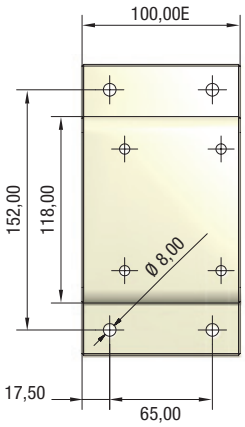
Wall mounting brackets and tanks supports for dosing pumps.

STK 1

PVC made bracket for tank installation. Designed for “K” series dosing pumps.

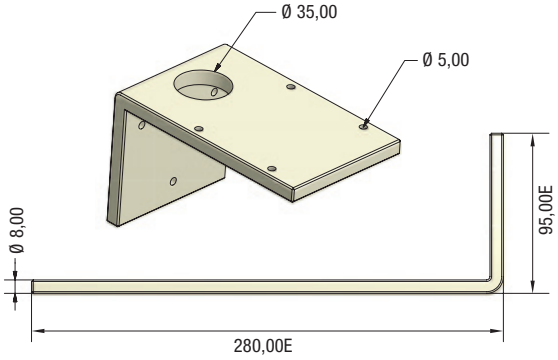


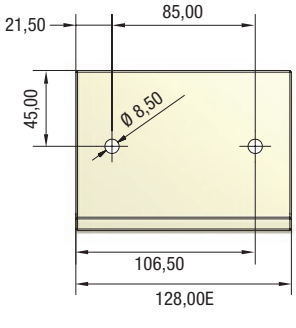




STK N

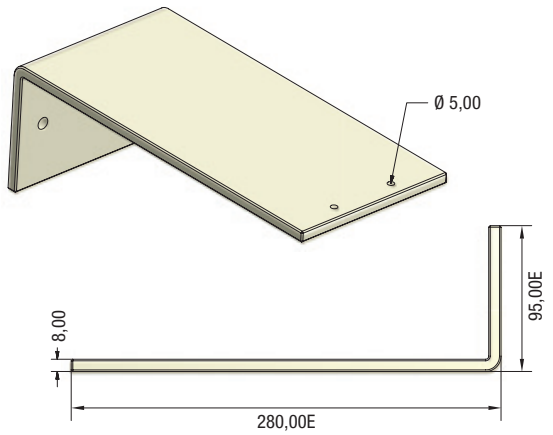
PVC made bracket for wall mounting installation (front version). Designed for “K” series dosing pumps.

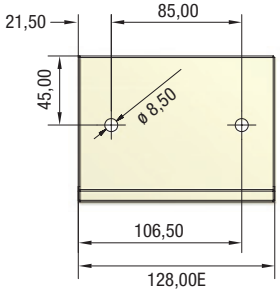




STV N

PVC made bracket for tank installation. Designed for “V” series dosing pumps.





BRACKETS - SUPPORTS

Wall mounting brackets for dosing pumps.

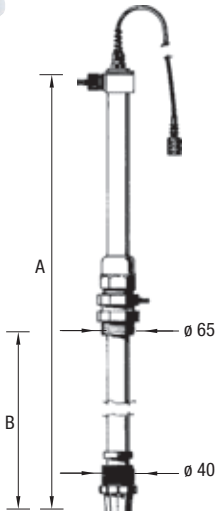
PART NUMBER	MODEL
NEA2000036	WALL MOUNTING BRACKETS FOR DOSING PUMP STK 1
NEA2000037	WALL MOUNTING BRACKETS FOR DOSING PUMP STK 2 - STK N
NEA2000038	WALL MOUNTING BRACKETS FOR DOSING PUMP STV - STV N

LASP suction lances

SPECIFICATIONS

Level switch.
Foot valve and foot filter.
Height adjustable.
PVC suction lances.
1/2" Connections.
O-ring: Viton®.
Other configurations available on request

Viton® is a registered trademark DuPont Dow Elastomers.



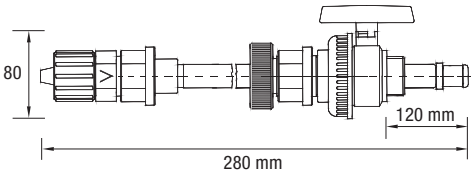
LAPS SUCTION LANCES

PART NUMBER	MODEL	OPERATING LENGHT (B cm)	TOTAL LENGHT (A cm)	TANK CONTENTS LITRES
NEA2000039	LASP1 SUCTION LANCE	45	61	25 lt - tank
		46	62	50 lt (mod. CNT50)
		60	76	120 lt (mod. CNT120)
		72	88	250 lt (mod. CNT250)
		90	106	500 lt (mod. CNT500)

LINR-V injection lances

MAX WORKING PRESSURE
8 bar (116 psi)

MAX WORKING TEMPERATURE
35°C (95°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



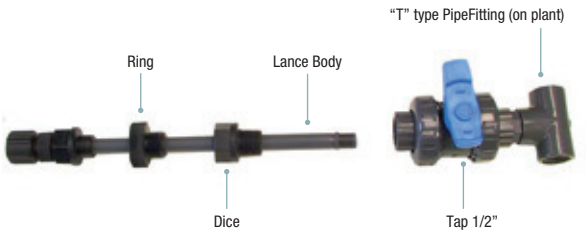
SPECIFICATIONS

Injection lance for easy removal in high pressure systems, ball valve (ball: ceramic).
To reduce salt debris and chemical deposition at the injection point.
PVC body.
1/2" Connections.
O-ring: Viton®.
Other configurations available on request

Viton® is a registered trademark DuPont Dow Elastomers.

LINR-V INJECTION LANCES

PART NUMBER	MODEL
NEA2000040	LINR-V INJECTION LANCE



LINR-V SET UP

- Prepare injection lance as shown on pic. 2.
- Insert body lance inside the Tap (must be closed). Lock the dice. Warning: check the connections for water leak.
- Open the tap and push the body lance until it reached the middle of "T" type Pipe fitting.
- Lock the ring on the dice as shown on pic.3 to avoid that water pressure ejects the lance.

PIC. 2

PIC. 3

CHEMICALS

Complete range of chemical products for the MAINTENANCE and CARE of the thermal and sanitary system.

SELECTION GUIDE

	PREVENTION						MAINTENANCE						
	ANTICORROSIVE FILM-FORMING PROTECTOR	SCALE INHIBITOR	ALGAECIDE	BACTERICIDE	ANTIFREEZE	OXYGEN SCAVENGER NOISE REDUCER	DESCALER	NEUTRALIZER	ANTICORROSIVE FILM-FORMING PROTECTOR	SCALE INHIBITOR	ALGAECIDE	BACTERICIDE	ADR
AFIGEL PRO			●		●								
AFIOX							●		●	●			
AFICLEAN	●	●											
DICAL							●						●
DICAL LQ							●						
NEUTRAL								●					●
RIDUCEN		●				●							
AFIPERX 5%				●	●								
AFIPERX 22%				●	●								●
AFICLOR											●	●	●
POLIPHOS L	●	●											

● **HEATING SYSTEMS**
● **DOMESTIC WATER SYSTEMS**
● **HEATING SYSTEMS**
SOLAR PANELS

AFIGEL PRO

Non toxic antifreeze for solar panels and food

HEATINGSYSTEM - SOLARPANELS

PART NUMBER	MODEL	FUNCTION	PACKAGE
NEA2500061	AFIGEL MONO - 10 lt	ANTIFREEZE	10 lt. tank

PACKAGE - Tank 10 lt.

DESCRIPTION

Antifreeze blue or colorless on request. Thanks to its particular composition behaves without causing corrosion of metals with which it comes into contact. AFIGEL PRO as antifreeze of permanent type based MONOPROPYLENE GLYCOL is characterized by the absence in its inhibitor package of amines and nitrite. The protective properties of AFIGEL PRO are conducted to all metals, particularly towards aluminum and copper, which constitute the main parts of a circuit of cooling or heating. AFIGEL PRO is specific for food plants and solar panels. Thanks to its formulation is also compatible with all materials that are commonly found in heat pumps.

INSTRUCTIONS FOR USE

Thoroughly clean the affected parts of the plant in accordance with current regulations (available on request) eg. UNI CTI 8065, 8364, 8884 (treatment of the water in heating systems), if necessary perform a pickling of pipes in order to eliminate waste of rust or welding. Prepare the mixture water-antifreeze by mixing antifreeze in the water and not the other. Introducing the mixture into the circuit from the most accessible point close to the boiler pump. Running at full plant cold for several hours after you turn the boiler vent carefully at the points where there is poor circulation.

CAUTION: for a good corrosion protection in general do not use percentages under 30 % of AFIGEL PRO, while for solar panels is a recommended percentage of 45 - 75 %. These higher concentrations allow the heat exchange fluid to remain unchanged in times of stagnation (no movement) of the system even at high temperatures.

AFIOX

Dissolution of sludge, with bactericidal

HEATINGSYSTEM

PART NUMBER	MODEL	FUNCTION	PACKAGE
NEA2500005	AFIOX - 1 lt	DESCALER - ANTICORROSIVE FILM-FORMING PROTECTOR - SCALE INHIBITOR	1 lt. bottle
NEA2500021	AFIOX - 5 lt	DESCALER - ANTICORROSIVE FILM-FORMING PROTECTOR - SCALE INHIBITOR	5 lt bottle

PACKAGE - 5 - 25 liters jerry cans

DESCRIPTION

Melt sludge healing, for disintegrating sludge, mud and limestone for thermal plants. Anti-corrosion product suitable for all types of plant is that of multi-metallic plastic material. AFIOX maintains in suspension and the limestone deposits contained in the system. Contains no chromates in compliance with the law (Law n. 319/76). The product also contains an effective biocide capable of preventing, or at least greatly reduce, the development of algae and organic products within the plant. The uncontrolled growth of algae or bacteria creates impediments to the smooth circulation of water within the plant.

INSTRUCTIONS FOR USE

Draining the system by the circulating liquid, so as to immediately remove most of the inconsistencies, check the amount of water present in the plant in order to correctly perform the dilutions. Use AFIOX at 2 – 3 % of the circulating fluid in the system. Circulating in the boiler system for 15 to 20 days depending on the age of the system protecting the boiler with a suitable filter **HYDRA HOT** with cartridge RAH HOT – 90 mcr. If unable to circulate the product, (new boiler fitted, or absence of the boiler), use the hand pump **CLEAR** dosing the product to 3 - 4 % of the circulating liquid for at least 3 - 6 hours and in any case the time required until the clean water flows. Subsequently download all the liquid and make a backwashing with water and if necessary in the presence of oxidation prior with water and **AFIFER** at 2 %. Drain and rinse the plant thoroughly, then reload the system with to adding anti-corrosion filming **AFICLEAN** and possibly the necessary percentage of **AFIGEL MONO** if there was a need to protect the plant from freezing too.

WARNINGS

May cause an allergic skin reaction. Causes serious eye damage. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/international regulation. Contains: Sodium sale of ethylenediaminetetra acetic acid, 1,2-BENZISOTHIAZOLIN -3(2H)-ONE. REGULATION (UE) n. 528/2012, contains biocides: 1,2-BENZISOTHIAZOLIN-3 (2H)-ONE.

DICAL

Descaler for heating systems

HEATINGSYSTEM

PART NUMBER	MODEL	FUNCTION	PACKAGE
NEA2500008	DICAL - 10 lt	DESCALER **(ADR)**	10 lt. bottle

PACKAGE - Tanks 10 lt

DESCRIPTION

Descaling acid-based inhibited, which can be used in a wide range of applications: to remove rust and corrosion from metal structures, in order to remove calcareous incrustations or siliceous pipes and closed systems of circulation of boilers and heat exchangers, to pickle the concrete, to remove traces of oxidation from various metals. Especially steel, copper, cast iron. For aluminum and galvanized surfaces are recommended to use **DICAL LQ.**

INSTRUCTIONS FOR USE

Dilute the product exclusively in acid-resistant cans - made of PVC or polyethylene - adding water to DICAL and not vice versa at a rate from 10 to 20% compared to the total liquid inside the system. Once the acid is no longer effective, the initial pink colour changes into orange-yellow. If adding some more DICAL, the colour remains (permanently) pink, it means that the descaling effect has occurred completely. A further confirmation is given when bubble formation of carbon dioxide during the treatment stops. Because of the development of gas, it is necessary to operate with the vents of the pump open. Subsequently do a wash with the product **NEUTRAL**.

WARNINGS

May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulation. Contains: hydrochloric acid 24%, sulfuric acid 5,5%.

DICAL LQ

Descaling liquid with indicator change colour, suitable for galvanized surfaces, aluminum and light alloys

HEATINGSYSTEM

PART NUMBER	MODEL	FUNCTION	PACKAGE
NEA2500022	DICAL LQ - 5 lt	DESCALER	5 lt. bottle

PACKAGE - Tanks 5 lt

DESCRIPTION

Concentrated descaling liquid (non-corrosive, non-fuming) for the elimination of limescale and corrosion residues of elements in copper, steel, stainless steel, aluminum, brass, tin, light alloys and galvanized surfaces. Ideal for descaling of heating systems, heat exchangers, coils, cooling systems, cooling towers. DICAL LQ contains an exhaustion indicator, the indicator changes color (bright red on the active product, yellow-orange product exhausted).

APPLICATIONS

DICAL LQ is an acid product with an high concentration but not aggressive on metals, particularly effective for the removal of calcareous encrustations. DICAL LQ is a delicate product, carefully inhibited in order not to affect any material, making it suitable for the pickling and descaling of all the metals making up the plants, including aluminum and its alloys, as well as galvanized surfaces. It promptly removes oxidations from boiler surfaces – sanitary side, heat exchangers, pipes, coils, cooling circuits, suitable also for sanitary lines cleaning as an alternative to the **DICAL** powder formulated product.

INSTRUCTIONS FOR USE

DICAL LQ is a descaling liquid concentrate to be diluted with water at the time of use in ratio of 20-30%, moreover the contact times recommended in order to obtain a good result on any surface ranging from 2 to 4 hours depending on the intensity of limestone deposits to be removed. N.B. After descaling is recommended to wash with the neutralizing **NEUTRAL** in order to eliminate the residual acidity in the circuit.

WARNINGS

Causes skin irritation - Causes serious eye irritation - Wear protective gloves/ protective clothing/ eye protection/ face protection - IF ON SKIN: Wash with plenty of soap and water - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing - If eye irritation persists: Get medical advice/ attention - Take off contaminated clothing and wash before reuse.

AFICLEAN

Corrosion inhibitor with bactericide

HEATINGSYSTEM

PART NUMBER	MODEL	FUNCTION	PACKAGE
NEA2500025	AFICLEAN - 1 lt	ANTICORROSIVE FILM-FORMING PROTECTOR - SCALE INHIBITOR	1 lt. bottle
NEA2500006	AFICLEAN - 5 lt	ANTICORROSIVE FILM-FORMING PROTECTOR - SCALE INHIBITOR	5 lt bottle

PACKAGE - 1 - 5 liters bottles

DESCRIPTION

Conditioning chemicals, corrosion inhibitors, protective film-forming for thermal plants both traditional and multi-metal and radiant plants. Compatible with all metals and plastics that make up a heating system. This is an inhibitor salts-based product preventing carbonates to adhere and protecting against oxidation and corrosion. It forms a protective monomolecular film on the walls of heating and cooling systems further to eliminate thermal and gas shocks due to the assembling of different metals. AFICLEAN moreover contains an effective biocide able to avoid or at least to reduce quite a lot the development of algae and biological products within the system. The uncontrolled development of algae or bacterial flora create obstructions to the regular circulation of the water within the system.

INSTRUCTIONS FOR USE

After checking the water content of the plant and have attempted to clean the same with **AFIFER or AFIOX** depending on whether a new or existing for over 6 months, introduce AFICLEAN plant through the point more congenial, if necessary using a charge pump by connecting to a point in the system. Use at least 1-2 litres of product per 100 litres of circulating water, in order to obtain low alkaline ph values (from about 8 to 9). However, quantities change according to the system and to the variety of metals which is composed of and are established depending on working temperature and on water hardness and purity intended in absence of corrosive ions. Make sure the water circuit has the values predicted by the DM 26/15 avoiding water that is too hard. Over-dosages have no contra-indications, but determine a waste of product. Use AFICLEAN in combination with good quality antifreezes to integrate their anticorrosive action like for instance if the percentage of the antifreeze at the beginning is less than 30% or after a long period of the antifreeze in the system. Carry out drainages on a daily regular basis, according to the use conditions. In any case follow the provisions of UNI 8065:2019 or BS 7593/92 norms that establish the treatments and the limit characteristics of water for sanitary hot water systems, hot water heating systems, overheating water and low pressure steam, in order to optimize the performance and the safety reducing energy consumptions according to the indications here below. For the preparation, add AFICLEAN to water to be treated, possibly pouring it in a regular and continuous way by using a volumetric proportioning pump.

WARNINGS

Causes skin irritation. May cause an allergic skin reaction. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. Contains: 1,2- benzisotiazol-3 (2H)-one.

NEUTRAL

Neutralizing acidity residual

HEATINGSYSTEM

PART NUMBER	MODEL	FUNCTION	PACKAGE
NEA2500023	NEUTRAL - 5 lt	NEUTRALIZER **(ADR)**	5 lt. bottle

PACKAGE - 5 liters bottles

DESCRIPTION

NEUTRAL neutralizes the acidity of the water remaining after the process in thermal systems, heat exchangers, radiators, boilers, coffee machines etc. with acids products disincrustation such as DICALand DICAL LQ. NEUTRAL prepare adequately the system to the next treatment to protect against corrosion by **AFICLEAN** (filming agent, corrosion inhibitor, biocide additive) or occasionally with **AFIGEL PRO** (inhibited antifreeze). Ensures compliance with environmental regulations.

DOSAGE: It is advisable to dilute NEUTRAL at 2 – 10 % of the circulating liquid depending on the residual acidity. For proper use you can refer to the pH indicator paper attached to the packaging; the acidity will be neutralized when the colors of the strip will remain unchanged.

INSTRUCTION FOR USE

Dilute the product in only containers resistant to acids and alkalis (PVC or polyethylene) by adding the NEUTRAL to water in a variable ratio from 2 to 10 % depending on the residual acidity. Introduce the solution in the circuit using a special pump. To circulate for at least two complete passes the solution in the plant. Check pH with indicator paper (pH optimum 6,5 to 7,5). Add more if necessary to complete the neutralization NEUTRAL. At complete neutrality, drain and reset power plant with water and **AFICLEAN** or occasionally with **AFIGEL PRO** according to the instructions given in the respective data sheets.

WARNINGS

H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.
Precautionary statements: P260: Do not breathe mist/vapours/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331:IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353:IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338:IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310:Immediately call a POISON CENTER/doctor. P501: Dispose of contents/container in accordance with local/regional/national/international regulation. It contains: Sodium hydroxide

RIDUCEN

Anti-noise deoxygenating anticorrosive additive

HEATINGSYSTEM

PART NUMBER	MODEL	FUNCTION	PACKAGE
NEA2500011	RIDUCEN - 1 lt	SCALE INHIBITOR - OXYGEN SCAVENGER NOISE REDUCER	1 lt. bottle

PACKAGE - 1 liters bottles

DESCRIPTION

Special anti-noise deoxygenating de-ironing anticorrosive additive allowing the elimination of the troublesome noise phenomena caused by excessive oxygenation of water and helping to maintain ferrous residues present in the system dispersed. It also exerts an antiscale complexing action and favours the protective formation of magnetite.
The active ingredient used in RIDUCEN is EDTA - ethylene-diamine-tetraacetic acid - approved as an additive for boiler water systems according to FDA specifications. The chelating agents have the ability to complex and prevent the deposition of many cations (hardness and heavy metals) in the conditions of the boiler water. The best approach for the control of iron oxides is a combination chelator-polymer, that is the base combination of RIDUCEN.

INSTRUCTIONS FOR USE

In closed systems dose the product in a ratio of 0,5 – 1 % of water container in the system. In plants with make-up systems adjust the quantity to 8 – 8,5 pH range.

WARNINGS

Causes serious eye damage
If medicai advice is needed, have product container or label at hand - Keep out ot reach ot children - Wear pro tective g/oves/ protective clothing/ eye protection/ tace protection - IF IN EYES: Rinse cautiously with water tor severa/ minutes. Remove contact lenses, it present and easy to do. Continue rinsing - If eye irritation persists: Get medicai advice/at- tention. It contains: Tetrasodium 2 2'2"2"'- (ethane-1,2- diyldinitrilo) tetraacetate.

RIDUCEN CV

Deoxygenating/scales remover for steam systems

HEATINGSYSTEM

PART NUMBER	MODEL	FUNCTION	PACKAGE
NEA2500012	RIDUCEN CV - 5 lt	SCALE INHIBITOR - OXYGEN SCAVENGER NOISE REDUCER	5 lt. bottle

PACKAGE - 5 liters bottles

DESCRIPTION

RIDUCEN CV is a scales remover and deoxygenating agent (one drum formulation) for heating systems working up to 63 Bar pressures also under FDA specifications for the production of pure steam. Deoxygenating action is done by sulfite sodium. Its reaction with oxygen can be schematized as follows:

$Na_2SO_3 + ½\ O_2 =$ Na_2SO_4
(sulfite sodium) sulphate sodium)

For a correct use of the product it is necessari to take the following measures:
- Increase the bleeding of the boiler in order to check the concentration of dissolved solids;
- Always maintain an excess of sulphite sodium;
- Make the reaction happen in the following pH range: $8,3 \leq pH \leq 9,5$.

The active ingredient used in "RIDUCEN CV " is EDTA - ethylene-diamine-tetraacetic acid - approved as an additive for boiler water systems according to FDA specifications. The chelating agents have the ability to complex and prevent the deposition of many cations (hardness and heavy metals) in the conditions of the boiler water. The best approach for the control of iron oxides is a combination chelator-polymer It should be dosed into the system a sufficient amount of chelating agent to complex hardness and soluble iron and give to the polymer the conditioning and dispersion of all other forms of iron oxides.

INSTRUCTIONS FOR USE

We suggest to measure out 50 ÷ 60 RIDUCEN CV ppm for each O2 ppm dissolved, leaving at least 15-30 ppm of unreacted sulfite into water circuit (to extract the value use a sulfites kit). In order to protect the entire system (including economizers), it is suggested to dose the product into the food tank or under the degasser (if present).

WARNINGS

Causes serious eye damage - If medical advice is needed, have product container or label at hand - Keep out of reach of children - Wear protective gloves/ protective clothing/ eye protection/ face protection - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing - If eye irritation persists: Get medical advice/attention. It contains: Tetrasodium 2,2',2'',2''' - (ethane-1,2-diyldinitrilo) tetraacetate.

AFIPERX

Hydrogen peroxide

DOMESTIC WATERSYSTEM

PART NUMBER	MODEL	FUNCTION	PACKAGE
NEA25050234	AFIPERX 22% - 25 lt	HYDROGEN PEROXIDE (ADR)	25 lt. tanks
NEA2500068	AFIPERX 5% - 25 lt	HYDROGEN PEROXIDE	25 lt. tanks

PACKAGE - 25 liters tanks

DESCRIPTION

AFIPERX is a biocidal additive containing hydrogen peroxide and silver ions; it is mainly used in the sanitisation of water transport lines, which can be carried out either in continuous or shock.
At the recommended dosages, the synergic action of hydrogen peroxide and silver ions enables the elimination of planktonic and sessile microbial species (including Legionella Pneumophila) and prevents the formation of biofilm without significantly altering the chemical-physical and organoleptic characteristics of the water.
Note: continuous disinfection operations must be carried out with the prior authorisation of the health officer of the relative Local Health Authority.
- Broad biocidal and algaecidal effect
- Prevents biofilm formation in water distribution lines
- Can be used in programmes to control legionellosis contamination
- Easy-to-use liquid
- Low running and installation costs

DOSING

The dosage will be decided by our technical staff according to the following parameters:
- Water quality
- Use of water
- pH
- Average and maximum temperature reached by the system water
- System metallurgy

WARNINGS

H318 Causes serious eye damage.
H302 Harmful if swallowed.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash thoroughly after use.
P305+P351+P338 IN CASE OF CONTACT WITH THE EYES: rinse thoroughly for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing.
P301+P312 IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell.
P310 Immediately call a POISON CENTER or doctor/physician.
P501 Dispose of contents/container in compliance with local/regional/national/international regulations.

AFICLOR

Fast-acting algaecide, bactericide, fungicide

DOMESTIC WATERSYSTEM

PART NUMBER	MODEL	FUNCTION	PACKAGE
NEA2500015	AFICLOR - 25 lt	ALGAECIDE - BACTERICIDE **(ADR)**	25 lt. tanks

PACKAGE - 25 liters tanks

DESCRIPTION

AFICLOR is a product with a high concentration of active chlorine. Employed as: algaecide, bactericide, fungicide quick action for professional employment. It is used in swimming pools, open-circuit systems and where the need for a chemical removal of algae, mold, moss, mucilage or as prevention for purifying water by common microorganisms and bacteria or viruses.

INSTRUCTIONS FOR USE

Dilute in small doses according to the extent of the problem, or use a pure radical removal of algae or moss consolidated.

WARNINGS

May be corrosive to metals. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects. Contact with acids liberates toxic gas. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Dispose of contents/ container in accordance with local/regional/national/international regulation. Contains: Sodium hypochlorite, solution 14 – 15 % active Cl.

POLIPHOS L

Conditioning product for sanitary water circuit with disincrustant and anticorrosive action

DOMESTIC WATERSYSTEM

PART NUMBER	MODEL	FUNCTION	PACKAGE
NEA2500018	POLIPHOS L - 25 lt	ANTICORROSIVE FILM-FORMING PROTECTOR - SCALE INHIBITOR	25 lt. tanks

PACKAGE - 25 liters tanks

DESCRIPTION

POLIPHOS L is a mixture of pure food polyphosphates ready to use, suitable for water with hardness up to 30 °f. POLIPHOS L is manufactured according to D. Lgs. 31 of 2/2/2001 laying down the requirements for quality of water intended for human consumption, also the raw materials involved in the preparation comply with the provisions of the UNI EN 1212:2005 inherent sodium polyphosphates and calcium used for the treatment of water intended for human consumption. POLIPHOS L can inhibit efficiently corrosion phenomena and also the incrustation formation into the sanitary hot and cold water production and distribution systems, **in accordance with the technical Norm UNI 8065:2019.**

ACTION

POLIPHOS L maintains clean and efficient the heat exchangers, pipes, taps and fittings, and all the other structure subject to incrustation in hot water systems. Prevents also usual problem of the cold water systems without recirculation, where water is lost. The product is particularly suitable for healing of old systems already subject to corrosion and incrustation phenomena.

INSTRUCTIONS FOR USE

POLIPHOS L is placed upstream of the hot water system, boiler or exchanger, with the help of a proportional system. The right concentration depends on hardness and water heating temperature. The DM 25/2012 says that the pure food polyphosphate concentrations into potable water DOES NOT have to exceed 5 mg/litre (proportional tools and dispensers). POLIPHOS L is used at a concentration between 5 and 60 g/m^3 (equivalent to 0,4 - 4,7 ppm expressed as P_2O_5), according to the hardness and water temperature.

Note:

WATER TREATMENT PRODUCTS

ACTIVATED CARBON

PART NUMBER	PRODUCT
RE8030003	ACTIVATED CARBON - 25 kg - 50 l
RD8030002	ACTIVATED CARBON - l1

RESINE

PART NUMBER	PRODUCT
NEA1010011	ANIONIC RESIN FOR NITRATES 25 kg
RE8040000	STRONG CATIONIC RESIN - 25 l
NEA1010042	STRONG CATIONIC RESIN FOR HELIOS
NEA1010006	RESIN MIXED BED WITHOUT COLORING - 25 l
NEA1010012	ECOMIX A RESIN - 12 l
NEA1010043	ECOMIX P RESIN - 12 l
RD8040002	STRONG CATIONIC RESIN l. JAR
RD8050002	RESIN MIXED BED WITH COLORING 1 l JAR

QUARTZITE

PART NUMBER	PRODUCT
AA8100003	QUARTZITE 0,8 - 1,2 mm - 25 kg
AA8100001	QUARTZITE 1,5 - 2,5 mm - 25 kg
AA8100004	QUARTZITE 4 - 6 mm - 25 kg

PIROLUSITE

PART NUMBER	PRODUCT
NEA1010002	PIROLUSITE - 25 kg Bag = 12,5 l

POLYPHOSPHATE

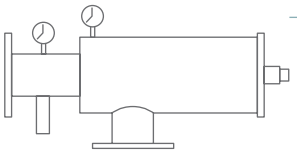
PART NUMBER	PRODUCT
RE8010003	POLYPHOSPHATE CRYSTALS 10/20 1,5 kg jar
RE8010001	POLYPHOSPHATE CRYSTALS 10/20 20 kg pack
RE8010004	POLYPHOSPHATE CRYSTALS 6/10 1,5 kg jar
RE8010002	POLYPHOSPHATE CRYSTALS 6/10 20 kg pack

PROFESSIONAL FILTRATION

The water normally used in civil and industrial water systems, regardless of its origin (well, source or aqueduct), could contain a certain amount of impurities or solid foreign bodies of various kinds in suspension, such as grains of sand, flakes of rust, processing residue, etc.
These particles range in size from a few microns to a few millimetres and can damage the pipes, valves, taps and household appliances when they penetrate the systems, thereby blocking the automatisms and triggering corrosion phenomena.
Such problems are avoided by installing a safety filter upstream of the system or the equipment that is to be protected.
PROFESSIONAL FILTERS are suitable for the filtration of potable and process water, eliminating foreign bodies, such as particles of rust, sand, shavings and fouling residue, thereby protecting:
- cold and hot water distribution networks
- heating systems
- cooling systems
- process water supply networks
- steam generator supply systems

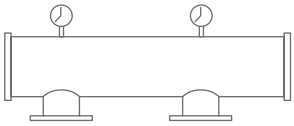
from malfunctions and corrosion caused by impurities.

THE RANGE



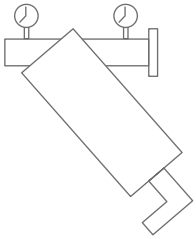
L

SIMPLEX
manual cleaning screen filters with stainless steel body, available in three building configuration: Y, L and O.



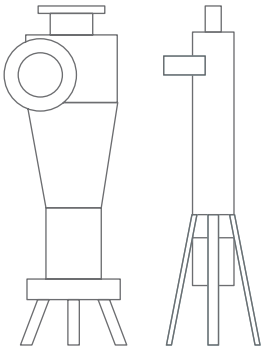
O

VACUUM
semi-automatic self cleaning screen filters are designed for filtration of liquids with solid particles and colloidal materials, available in three building configuration: L, O and Y.



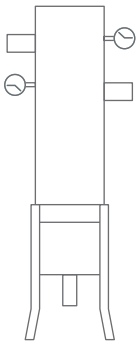
Y

ROTOR
self cleaning screen filters are designed for filtration of liquids with solid particles and colloidal materials, available in three building configuration: L, O and Y.

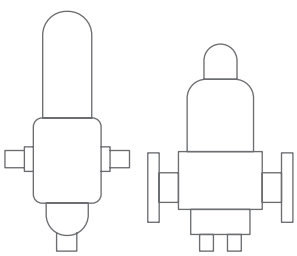


CICLONE ECO
Centrifugal filters forrather sandy water or water containing a considerable amount of suspended solid particles

VORTEX PRO
centrifugal separating filters (hydrocyclones) with stainless steel body for industrial use.



FDD
bag filter feeder especially designed to be connected in side stream circuits on HVAC piping systems with the purpose of keeping water clean and chemically additivated.



JUDO
manual or automatic self-cleaning filters certified under standard DIN-DVGW.

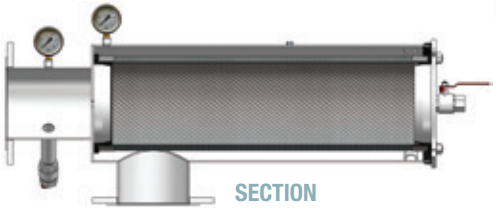
SIMPLEX

COLDWATER HOTWATER

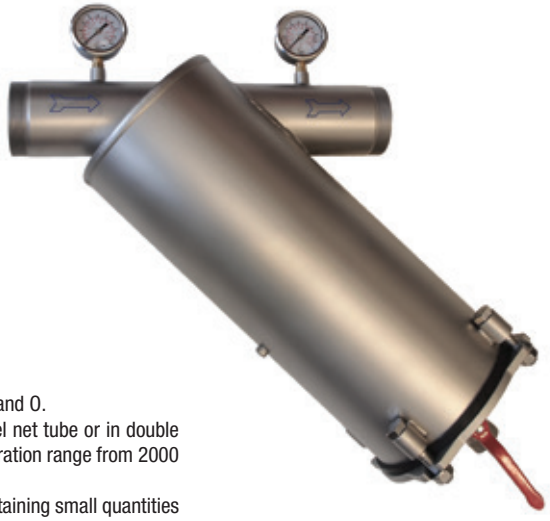
Manual cleaning screen filters

MAX WORKING PRESSURE
10 bar (145 psi)
16 bar (232 psi) on demand

MAX WORKING TEMPERATURE
80°C (176°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



SECTION



SIMPLEX are manual cleaning screen filters with stainless steel body, available in three building configuration: Y, L and O.
The internal filter cartridge is available with a polyester filtration mesh (PES) inserted in an AISI 316 stainless steel net tube or in double layer screen version (REPS) completely made of stainless steel AISI 316; with these solution we can offer a large filtration range from 2000 to 25 µm.
SIMPLEX are suitable to be used as protection filters, for the treatment of well, river, canal and industrial waters containing small quantities of suspended material. These filters are easy to disassemble for internal inspection and cleaning, and are ready to be upgraded with cleaning automation. The filters are supplied with pressure gauges and drain valve.
Manufactured in compliance with PED 2014/68/UE

FILTRATION

Dirty water flows in to the filter through the inlet port across the filtering element inside of which all suspended solids are retained; clean water exits from the output port.

CLEANING

The cleaning of the filtering element is required when the progressive buildup of suspended solids causes a differential pressure between inlet and outlet (08. - 1 bar). The maintenance and the cleaning operation must take place in the absence of pressure and with the filter opened.

TECHNICAL SPECIFICATIONS

Filtration degrees: 2000 - 1000 - 810 - 580 - 400 - 200 - 120 - 80 - 53 - 25 µm - REPS: 800 - 400 - 200 - 110 µm
Salinity: < 10.000 ppm TDS
Acidity: pH 3 ÷ 9
Cartridge gaskets: EPDM

FILTER CARTRIDGES

Polyester cartridge kit
The polyester cartridge kit is composed of an AISI 316 stainless steel mesh tube which supports the polyester (PES) filter mesh. This solution allows to have a filtration range that goes from 810 µm to 25 µm.

REPS cartridge kit
The REPS cartridge kit is completely made of stainless steel AISI 316 and it is composed of a double layer screen system which is very durable and is suitable to work in the most demanding environments where suspended solid may tear polyester mesh.

MATERIALS

Filter body - cover - screen support: AISI 304 /AISI 316
Body gasket: EPDM
Surface finishing: Micro shot peening and passivation
SIMPLEX filters are designed to have a long lasting life and to work in harsh and demanding industrial environment.
The body is made of AISI 304 or AISI 316 stainless steel and is finished with two different surface treatments: micro shoot peening and passivation; these processes allow both to improve the filter's physical properties, making it resistant to oxidation and confer it an attractive appearance. Gaskets are in EPDM as standard in all models.

CONNECTIONS

The inlet/outlet connections of the filters are available in the threaded version (BSPP) up to 3" size, and with ISO PN16 lap joint flanges from DN100 up. Alternatively, connections are available with grooved end for rapid joint system.

AUTOMATION

SIMPLEX filters are easy and fast to be automated; even in a second time it is possible to replace the cover with a cleaning group (automatic or semi-automatic).

OPTIONAL

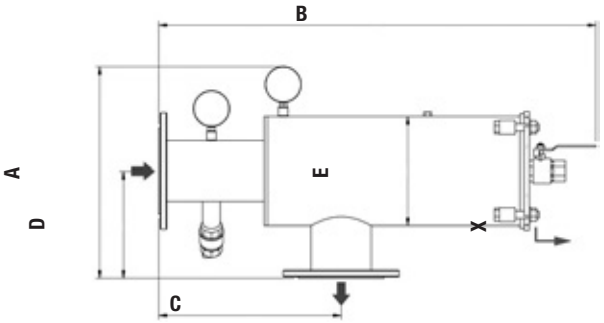
Differential pressure kit
SIMPLEX filters can be supplied with differential ressure control kit for the control of the difference between inlet and outlet pressure.
This option allows to connect the filter to an alarm that is activated when the ΔP reaches the preset value, so that the operator is alerted when the filter needs to be cleaned. The kit is composed of a differential pressure switch and all the required accessories for hydraulic connection.

Magnet or Sacrificial anode
The SIMPLEX Filters can be equipped with a permanent magnetic kit with magnetic induction of 9000-10000 gauss Neodymium Iron Boron N45, that allows you to capture any particulate metal present in the fluid to be treated, or a sacrificial anode in zinc-magnesium preserving the piping from galvanic currents.

SIMPLEX L

MODEL	IN/OUT	DRAIN	SCREEN AREA		MAX FLOW RATE*	DIMENSIONS mm						WEIGHT
			cm²	in²	m³/h	A	B	C	D	E	X	kg
SI L 2" / 10A	2" BSPP	1" BSPP	1500	233	40	880	410	450	213	206	500	20
SI L 3" / 10A	3" BSPP	1" BSPP	1500	233	80	880	410	450	213	206	500	20
SI L 100 / 10A	DN100	1" BSPP	1500	233	100	880	410	450	213	206	500	24
SI L 3" / 20	DN100	1" BSPP	2200	341	130	880	410	450	213	206	650	25
SI L 100 / 20	DN100	1" BSPP	3300	512	140	1340	480	640	246	273	650	57
SI L 100 / 35	DN150	1" BSPP	3300	512	250	1340	480	640	246	273	650	59
SI L 150 / 35	DN150	1" BSPP	5400	837	300	1340	480	640	246	273	1000	60
SI L 150 / 40P	DN200	1" BSPP	5400	837	400	1340	480	640	286	273	1000	64

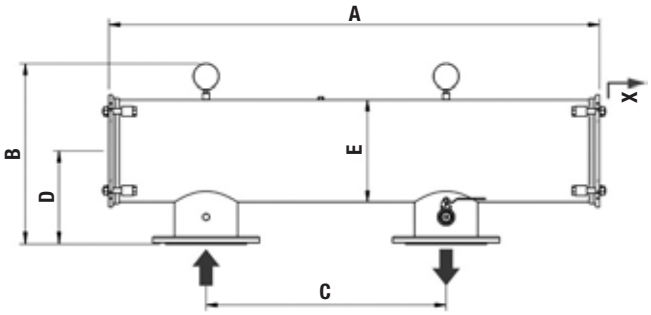
*Flow rates are referred to water with temperature of 20 °C and NTU < 1.
X = length required for maintenance



SIMPLEX O

MODEL	IN/OUT	DRAIN	SCREEN AREA		MAX FLOW RATE*	DIMENSIONS mm						WEIGHT
			cm²	in²	m³/h	A	B	C	D	E	X	kg
SI O 2" / 10A	2"BSPP	1" BSPP	1500	233	40	880	410	450	213	206	500	20
SI O 3" / 10A	3" BSPP	1" BSPP	1500	233	80	880	410	450	213	206	500	20
SI O 100 / 10A	DN100	1" BSPP	1500	233	100	880	410	450	213	206	500	24
SI O 100 / 20	DN100	1" BSPP	2200	341	130	880	410	450	213	206	650	25
SI O 100 / 35	DN100	1" BSPP	3300	512	140	1340	480	640	246	273	650	57
SI O 150 / 35	DN150	1" BSPP	3300	512	250	1340	480	640	246	273	650	59
SI O 150 / 40P	DN150	1" BSPP	5400	837	300	1340	480	640	246	273	1000	60
SI O 200 / 40P	DN200	1" BSPP	5400	837	400	1340	480	640	286	273	1000	64

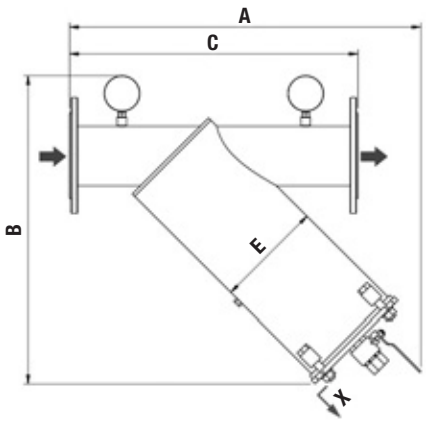
*Flow rates are referred to water with temperature of 20 °C and NTU < 1.
X = length required for maintenance



SIMPLEX Y

MODEL	IN/OUT	DRAIN	SCREEN AREA		MAX FLOW RATE*	DIMENSIONS mm						WEIGHT
			cm²	in²	m³/h	A	B	C	D	E	X	kg
SI Y 1" / 5	1"BSPP	1" BSPP	600	93	10	430	380	280	-	114	300	5
SI Y 1"1/2 / 5	1"1/2 BSPP	1" BSPP	600	93	15	430	380	275	-	114	300	7
SI Y 2" / 10A	2" BSPP	1" BSPP	1500	233	40	500	420	400	-	206	500	14
SI Y 3" / 10A	3" BSPP	1" BSPP	1500	341	80	520	440	450	-	206	500	15
SI Y 100 / 10A	DN100	1" BSPP	1500	341	100	560	480	550	-	206	650	20
SI Y 3" / 20	3" BSPP	1" BSPP	2200	341	80	630	570	450	-	206	650	24
SI Y 100 / 20	DN100	1" BSPP	2200	341	130	670	590	550	-	206	650	38
SI Y 100 / 35	DN100	1" BSPP	3300	512	140	670	610	600	-	273	650	40
SI Y 150 / 35	DN150	1" BSPP	3300	512	250	745	640	745	-	273	650	42
SI Y 150 / 40P	DN150	1" BSPP	5400	837	300	960	850	745	-	273	1000	45

*Flow rates are referred to water with temperature of 20 °C and NTU < 1.
X = length required for maintenance



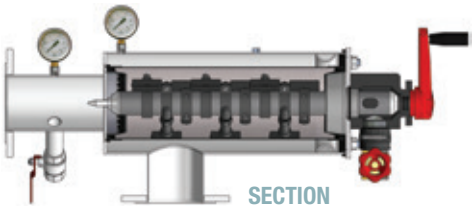
VACUUM

COLDWATER HOTWATER

Semi-automatic self cleaning screen filters

MAX WORKING PRESSURE
10 bar (145 psi)
MIN WORKING PRESSURE
3 bar (43,5 psi)

MAX WORKING TEMPERATURE
60°C (140°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



SECTION

VACUUM semi-automatic self cleaning screen filters are designed for filtration of liquids with solid particles and colloidal materials. Special suction pads ensure the complete cleaning of the screen with minimum water consumption and without stopping the filtration process. They can be supplied in three different building configurations (Y, L, and O) depending on the position of In/Out connections. The filtering cartridge can be supplied either as a polyester mesh inserted between two AISI 316 net tubes or as a three layer AISI 316 stainless steel cartridge (REPS); with this solution the filtration degree ranges from 25 µm to 810 µm. All filters are supplied ready to work, with drain valve and pressure gauges included.
Manufactured in compliance with PED 2014/68/UE.

FILTRATION

Dirty water flows in to the filter through the inlet port across the filtering element inside of which all suspended solids are retained; clean water exits from the output port.

CLEANING

The cleaning of the filtering element may be performed when the progressive buildup of suspended solid causes an excessive differential pressure between inlet and outlet (0.8 - 1 bar). During the cleaning cycle the drain valve opens and actuates the rotation the suction scanning system through the dedicate handle installed on the lid. The perfect adherence of nozzles to the internal surface of the cartridge guarantees the aspiration of all the particles retained in the filter. Dirty water and solids are purged through the drain port.

TECHNICAL SPECIFICATIONS

Filtration degrees: 810 - 580 - 400 - 200 - 120 - 80 - 53 - 25 µm - REPS: 200 - 120 µm
Salinity: < 10.000 ppm TDS
Acidity: pH 3 ÷ 9
Cartridge gaskets: EPDM

FILTER CARTRIDGES

Sandwich cartridge kit
The "Sandwich" cartridge kit is made of a polyester tissue tube fitted between two AISI 316 mesh tubes; between the fabric and the outer cylinder a protective polypropylene mesh is inserted. This system permits to protect the filter tissue from wear caused by the nozzles and at the same time to have a filtration range that goes from 810 µm to 25 µm. Another benefit of "Sandwich" system is the "moving screen effect": the rotation of the pads and the suction effect cause a wave movement on the fabric so that the cleaning process is much more effective.

REPS cartridge kit
The triple-layer REPS cartridge kit is made of an AISI 316 filter mesh welded between two AISI 316 mesh tubes. This construction method gives the cartridge a higher wear and corrosion resistance.
This cartridge kit is the alternative to the Sandwich cartridge kit in most demanding working conditions and in presence of sharp solid particles which could tear the PES tissue.

Prefilter
The horizontal configuration is equipped with coarse screen which stops particles larger then 3000 µm, its function is to protect the moving parts and the filter cartridge. The coarse screen is made of AISI 316 stainless steel.

MATERIALS

Filter body - Cover: AISI 304 / AISI 316
Gasket: EPDM
Surface finishing: Micro shot peening and passivation
VACUUM filters are designed to have a long lasting life and to work in harsh and demanding industrial environment. The body is made of AISI 304 or AISI 316 stainless steel and is finished with two different surface treatments: micro shoot peening and passivation; these processes allow both to improve the filter's physical properties, making it resistant to oxidation and confer it an attractive appearance. Gaskets are in EPDM as standard and the drain chamber is in polypropylene in all models.

CONNECTIONS

The inlet/outlet connections of the filters are available in the threaded version (BSPP) up to 3" size, and with ISO PN16 lap joint flanges from DN100 up.

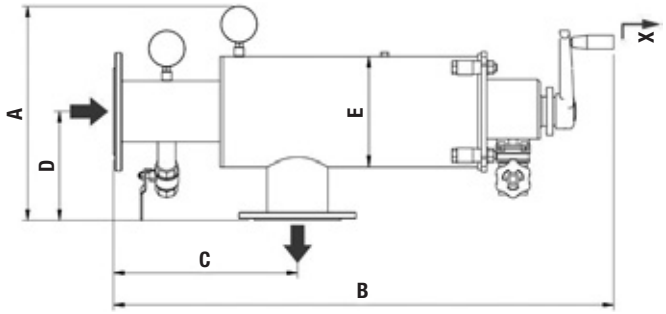
UPGRADE

VACUUM filters are easy and fast to be automated; even in a second time it is possible to replace the semi-automatic cleaning group with an automatic cleaning group

VACUUM L

MODEL	IN/OUT	DRAIN	SCREEN AREA		MAX FLOW RATE*	DIMENSIONS mm						WEIGHT
			cm²	in²	m³/h	A	B	C	D	E	X	kg
VA L 2" / 10A	2" BSPP	1"1/2 BSPP	1500	233	40	400	740	296	203	206	500	17
VA L 3" / 10A	3" BSPP	1"1/2 BSPP	1500	233	80	400	740	296	203	206	500	18
VA L 100 / 10A	DN100	1"1/2 BSPP	1500	233	100	400	790	346	203	206	500	22
VA L 100 / 20	DN100	1"1/2 BSPP	2200	341	130	400	940	346	203	206	650	27
VA L 100 / 35	DN100	1"1/2 BSPP	3300	512	140	470	950	346	236	273	650	40
VA L 150 / 35	DN150	1"1/2 BSPP	3300	512	250	470	950	346	236	273	650	42
VA L 150 / 40P	DN150	1"1/2 BSPP	5400	837	300	470	1250	346	236	273	1000	50
VA L 200 / 40P	DN200	1"1/2 BSPP	5400	837	400	470	1250	366	236	273	1000	55

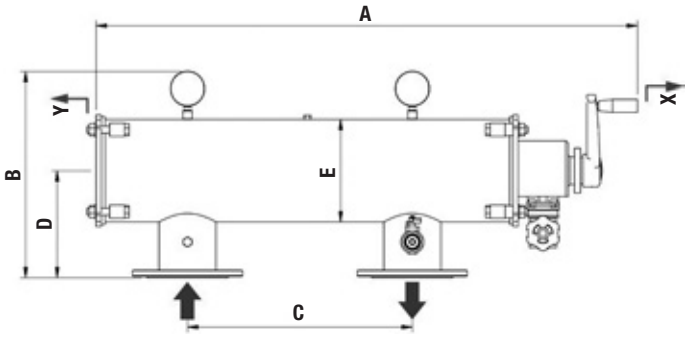
*Flow rates are referred to filters with 120 µm filtrating mesh and water with temperature of 20 °C and NTU < 1.
X = length required for maintenance



VACUUM O

MODEL	IN/OUT	DRAIN	SCREEN AREA		MAX FLOW RATE*	DIMENSIONS mm							WEIGHT
			cm²	in²	m³/h	A	B	C	D	E	X	Y	kg
VA O 2" / 10A	2" BSPP	1"1/2 BSPP	1500	233	40	1085	410	450	213	206	500	650	41
VA O 3" / 10A	3" BSPP	1"1/2 BSPP	1500	233	80	1085	410	450	213	206	500	650	41
VA O 100 / 10A	DN100	1"1/2 BSPP	1500	233	100	1085	410	450	213	206	500	650	45
VA O 100 / 20	DN100	1"1/2 BSPP	2200	341	130	1085	410	450	213	206	650	500	46
VA O 100 / 35	DN100	1"1/2 BSPP	3300	512	140	1550	480	640	246	273	650	1000	42
VA O 150 / 35	DN150	1"1/2 BSPP	3300	512	250	1550	480	640	246	273	650	1000	47
VA O 150 / 40P	DN150	1"1/2 BSPP	5400	837	300	1550	480	640	246	273	1000	650	47
VA O 200 / 40P	DN200	1"1/2 BSPP	5400	837	400	1550	480	640	246	273	1000	650	72

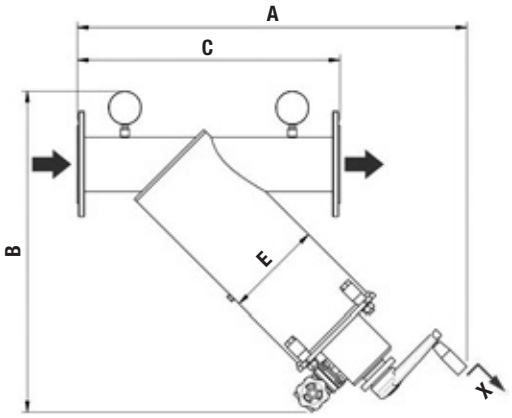
*Flow rates are referred to filters with 120 µm filtrating mesh and water with temperature of 20 °C and NTU < 1.
X-Y = length required for maintenance



VACUUM Y

MODEL	IN/OUT	DRAIN	SCREEN AREA		MAX FLOW RATE*	DIMENSIONS mm						WEIGHT
			cm²	in²	m³/h	A	B	C	D	E	X	kg
VA Y 2" / 10A	2" BSPP	1"1/2 BSPP	1500	233	40	640	535	395	-	206	500	17
VA Y 3" / 10A	3" BSPP	1"1/2 BSPP	1500	233	80	670	550	448	-	206	500	18
VA Y 100 / 20	DN100	1"1/2 BSPP	2200	341	130	820	670	550	-	206	650	27
VA Y 100 / 35	DN100	1"1/2 BSPP	3300	512	140	820	670	600	-	273	650	40
VA Y 150 / 35	DN150	1"1/2 BSPP	3300	512	250	895	700	745	-	273	650	42
VA Y 150 / 40P	DN150	1"1/2 BSPP	5400	837	300	1140	915	745	-	273	1000	50

*Flow rates are referred to filters with 120 µm filtrating mesh and water with temperature of 20 °C and NTU < 1.
X = length required for maintenance



OPTIONAL

Differential pressure kit

VACUUM filters can be supplied with differential pressure control kit for the control of the difference between inlet and outlet pressure.
This option allows to connect the filter to an alarm that is activated when the ΔP reaches the preset value, so that the operator is alerted when the filter needs to be cleaned. The kit is composed of a differential pressure switch and all the required accessories for hydraulic connection.

ROTOR

COLDWATER HOTWATER

Self cleaning screen filters

MAX WORKING PRESSURE
10 bar (145 psi)
MIN WORKING PRESSURE
3 bar (43,5 psi)

MAX WORKING TEMPERATURE
60°C (140°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

ROTOR self cleaning screen filters are designed for filtration of liquids with solid particles and colloidal materials. Special suction pads ensure the complete cleaning of the screen with minimum water consumption and without stopping the filtration process. They can be supplied in three different configurations (Y, L and O) depending on the position of In/Out connections. The filtering cartridge can be supplied either as a polyester mesh inserted between two AISI 316 net tubes or as a three layer AISI 316 stainless steel cartridge (REPS); with this solution the filtration degree ranges from 25 µm to 810 µm. All filters are supplied ready to work, with valves, pressure gauges and electronic controller included.
Manufactured in compliance with 2014/68/UE.

FILTRATION

Dirty water flows in to the filter through the inlet port across the filtering element who retains the suspended solids inside; clean water exits from the output port.

CLEANING

The cleaning of the filtration element can be performed by preset time or when the progressive buildup of suspended solid causes an excessive differential pressure between inlet and outlet (0.8 bar). During the cleaning cycle the opening of the drain valve and the engine rotation actuate the suction scanning system. The perfect adherence of pads to the internal surface of the cartridge guarantees the aspiration of all the particles retained in the filter. Dirty water and solids are purged through the drain port.

TECHNICAL SPECIFICATIONS

Filtration degrees: 810 - 580 - 400 - 200 - 120 - 80 - 53 - 25 µm - REPS: 200 - 120 µm
Salinity: < 10.000 ppm TDS - Acidity: pH 3 ÷ 9 - Cartridge gaskets: EPDM
Rated operation voltage: 230 Vac 50/60Hz - Control voltage: 24 Vdc - Motor: 1450 rpm - 75 W - 24 Vdc - 4,8 A

FILTER CARTRIDGE

Sandwich cartridge kit

The “Sandwich” cartridge kit is made of a polyester tissue tube fitted between two AISI 316 mesh tubes; between the fabric and the outer cylinder a protective polypropylene mesh is inserted. This system permits to protect the filter tissue from wear caused by the nozzles and at the same time to have a filtration range that goes from 810 µm to 25 µm. Another benefit of “Sandwich” system is the “moving screen effect”: the rotation of the pads and the suction effect cause a wave movement on the fabric so that the cleaning process is much more effective.

REPS CARTRIDGE KIT

The triple-layer REPS cartridge kit is made of an AISI 316 filter mesh welded between two AISI 316 mesh tubes. This construction method gives the cartridge a higher wear and corrosion resistance. This cartridge kit is the alternative to the Sandwich cartridge kit in most demanding working conditions and in presence of sharp solid particles which could tear the PES tissue.

Prefilter

The horizontal configuration is equipped with coarse screen which stops particles larger then 3000 µm, its function is to protect the moving parts and the filter cartridge. The coarse screen is made of AISI 316 stainless steel.

MATERIALS

Filter body - Cover: AISI 304 / AISI 316 - Screen support: AISI 316 - gasket: EPDM
Surface finishing: Micro shot peening and passivation
ROTOR filters are designed to have a long lasting life and to work in harsh and demanding industrial environment. The body is made of AISI 304 or AISI 316 stainless steel and is finished with two different surface treatments: micro shoot peening and passivation; these processes allow both to improve the filter’s physical properties, making it resistant to oxidation and confer it an attractive appearance. Gaskets are in EPDM as standard and the drain chamber is in polypropylene in all models.

CONNECTIONS

The inlet/outlet connections of the filters are available in the threaded version (BSPP) up to 3” size, and with ISO PN16 lap joint flanges from DN80 up.

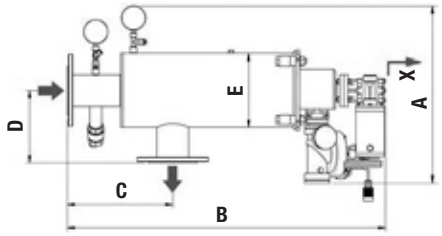
AUTOMATION

ROTOR re equipped with an automatic cleaning system and are supplied ready to work, with valves, pressure gauges, differential pressure switch and SATICON 3M electronic controller included. With SATICON 3M electronic controller it is possible to control flushing operation and parameters thanks to a keyboard and an LCD display.
Main functions of the controller are:
- Password protection of the programming menu
- Time and ΔP mode
- Remote power on/off
- Flushing counter
- Manual flushing command
- Flushing time and time between flushings setup
- Sequential mode control up to 3 filters

ROTOR L

MODEL	IN/OUT	DRAIN	SCREEN AREA		MAX FLOW RATE*	DIMENSIONS mm						WEIGHT
			cm²	in²	m³/h	A	B	C	D	E	X	kg
ROM L 2" / 10A	2" BSPP	1"1/2 BSPP	1500	233	40	500	740	296	203	206	500	24
ROM L 3" / 10A	3" BSPP	1"1/2 BSPP	1500	233	80	500	740	296	203	206	500	24
ROM L 80 / 10A	DN80	1"1/2 BSPP	1500	233	80	500	740	296	203	206	500	29
ROM L 100 / 10A	DN100	1"1/2 BSPP	1500	233	100	500	790	346	203	206	500	30
ROM L 3" / 20	3" BSPP	1"1/2 BSPP	2200	341	80	500	890	296	203	206	650	27
ROM L 80 / 20	DN80	1"1/2 BSPP	2200	341	80	500	890	296	203	206	650	30
ROM L 100 / 20	DN100	1"1/2 BSPP	2200	341	130	500	940	346	203	206	650	33
ROM L 100 / 35	DN100	1"1/2 BSPP	3300	512	140	540	950	346	236	273	650	42
ROM L 150 / 35	DN150	1"1/2 BSPP	3300	512	250	540	950	346	236	273	650	45
ROM L 100 / 40P	DN100	1"1/2 BSPP	5400	837	150	540	1250	346	236	273	650	50
ROM L 150 / 40P	DN150	1"1/2 BSPP	5400	837	300	540	1250	346	236	273	1000	55
ROM L 200 / 40P	DN200	1"1/2 BSPP	5400	837	400	540	1250	366	236	273	1000	60

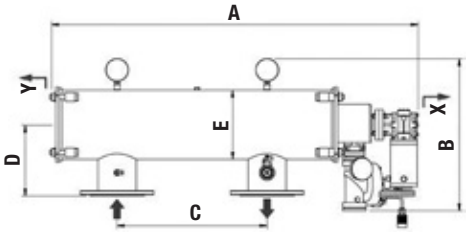
*Flow rates are referred to filters with 120 µm filtrating mesh and water with temperature of 20 °C and NTU < 1.
X = length required for maintenance



ROTOR O

MODEL	IN/OUT	DRAIN	SCREEN AREA		MAX FLOW RATE*	DIMENSIONS mm							WEIGHT
			cm²	in²	m³/h	A	B	C	D	E	X	Y	kg
ROM O 2" / 10A	2" BSPP	1"1/2 BSPP	1500	233	40	1090	460	450	213	206	500	650	36
ROM O 3" / 10A	3" BSPP	1"1/2 BSPP	1500	233	80	1090	460	450	213	206	500	650	37
ROM O 80 / 10A	DN80	1"1/2 BSPP	1500	233	80	1090	460	450	213	206	500	650	42
ROM O 100 / 10A	DN100	1"1/2 BSPP	1500	233	100	1090	460	450	213	206	500	650	43
ROM O 3" / 20	3" BSPP	1"1/2 BSPP	2200	341	80	1090	460	450	213	206	650	500	38
ROM O 80 / 20	DN80	1"1/2 BSPP	2200	341	80	1090	460	450	213	206	650	500	43
ROM O 100 / 20	DN100	1"1/2 BSPP	2200	341	130	1090	460	450	213	206	650	500	44
ROM O 100 / 35	DN100	1"1/2 BSPP	3300	512	140	1550	490	640	246	273	650	1000	68
ROM O 150 / 35	DN150	1"1/2 BSPP	3300	512	250	1550	490	640	246	273	650	1000	72
ROM O 100 / 40P	DN100	1"1/2 BSPP	5400	837	150	1550	490	640	246	273	1000	650	70
ROM O 150 / 40P	DN150	1"1/2 BSPP	5400	837	300	1550	490	640	246	273	1000	650	74
ROM O 200 / 40P	DN200	1"1/2 BSPP	5400	837	400	1550	520	640	286	273	1000	650	80

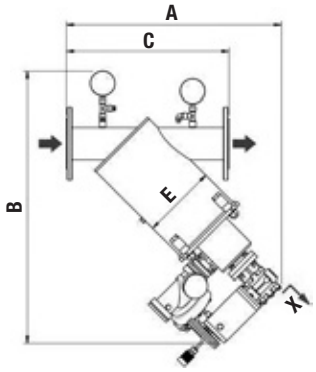
*Flow rates are referred to filters with 120 µm filtrating mesh and water with temperature of 20 °C and NTU < 1.
X-Y = length required for maintenance



ROTOR Y

MODEL	IN/OUT	DRAIN	SCREEN AREA		MAX FLOW RATE*	DIMENSIONS mm						WEIGHT
			cm²	in²	m³/h	A	B	C	D	E	X	kg
ROM Y 2" / 10A	2" BSPP	1"1/2 BSPP	1500	233	40	570	730	395	-	206	500	22
ROM Y 3" / 10A	3" BSPP	1"1/2 BSPP	1500	233	80	590	750	450	-	206	500	24
ROM Y 80 / 10A	DN80	1"1/2 BSPP	1500	233	80	590	750	450	-	206	500	28
ROM Y 100 / 10A	DN100	1"1/2 BSPP	1500	233	100	630	760	550	-	206	500	30
ROM Y 3" / 20	3" BSPP	1"1/2 BSPP	2200	341	80	700	850	450	-	206	650	27
ROM Y 80 / 20	DN80	1"1/2 BSPP	2200	341	80	700	850	450	-	206	650	30
ROM Y 100 / 20	DN100	1"1/2 BSPP	2200	341	130	740	860	550	-	206	650	33
ROM Y 100 / 35	DN100	1"1/2 BSPP	3300	512	140	750	870	600	-	273	650	42
ROM Y 150 / 35	DN150	1"1/2 BSPP	3300	512	250	820	900	745	-	273	650	48
ROM Y 100 / 40P	DN100	1"1/2 BSPP	5400	837	150	960	1080	600	-	273	1000	51
ROM Y 150 / 40P	DN150	1"1/2 BSPP	5400	837	300	1030	1110	745	-	273	1000	57

*Flow rates are referred to filters with 120 µm filtrating mesh and water with temperature of 20 °C and NTU < 1.
X = length required for maintenance



CICLONE ECO

Centrifugal water filters

MAX WORKING PRESSURE
8 bar (116 psi)
MIN WORKING PRESSURE
3 bar (43 psi)

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

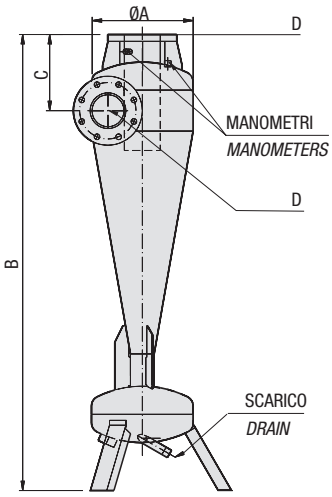
COLDWATER

HOTWATER

- Pre-filtration system for rather sandy water or water containing a considerable amount of suspended solid particles to be installed before a filtration unit.
- The inlet water, due to the centrifugal force, settles on the sides of the filter the heaviest particles which then deposit in the container underneath.
- Manufactured in stainless steel AISI 304.
- Discharge unit built in the bottom part.
- 70- 80% of suspended particles are eliminated by a dedicated outlet.
- Light-weight and compact.

OPTIONAL

- The residual particles drain can be automatized with a valve (hydraulic or motorized), controlled with an external control panel.
- Upon request the filters can be provided with manometers for inlet/outlet pressure.

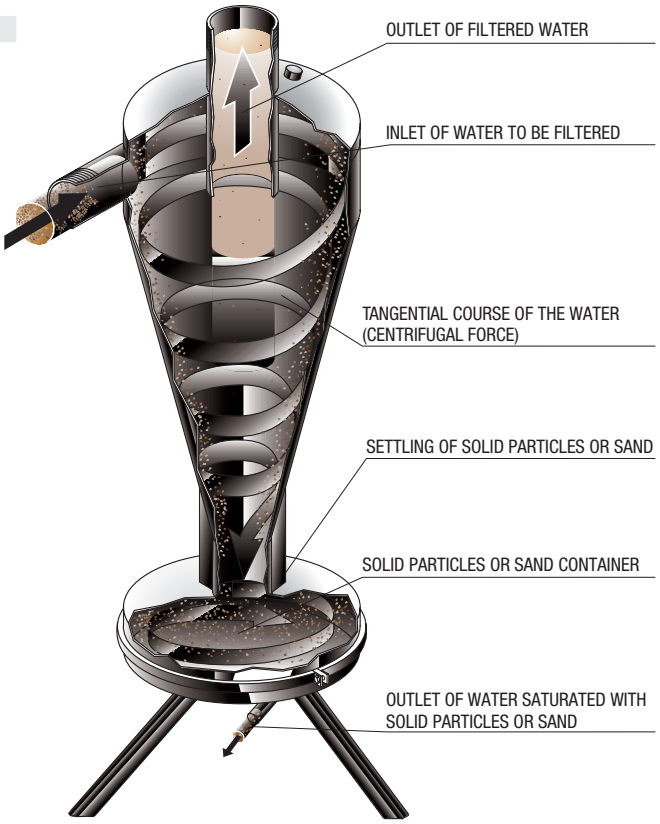


CICLONE ECO

PART NUMBER	MODEL	IN/OUT	MIN FLOW RATE l/min	DIMENSIONS mm A	B	C	D
NEA3000001	CYCLONE - 3/4"	3/4"	50-100	Ø 110	760	154	Ø 3/4"
NEA3000002	CYCLONE - 1"	1"	100-200	Ø 114	861	154	Ø 1"
NEA3000003	CYCLONE - 1 1/4"	1"1/4	150-220	Ø 114	910	154	Ø 1"1/4
NEA3000004	CYCLONE - 1 1/2"	1"1/2	200-260	Ø 114	961	154	Ø 1"1/2
NEA3000005	CYCLONE - 2"	2"	250-420	Ø 212	1005	170	Ø 2"
NEA3000006	CYCLONE - 3"	3"	420-830	Ø 240	1085	195	Ø 3"
NEA3000007	CYCLONE - DN100	DN 100	830-1200	Ø 324	1245	170	Ø 4"
NEA3000008	CYCLONE - DN125	DN 125	1500-2600	Ø 360	1330	180	Ø 5"
NEA3000009	CYCLONE - DN150	DN 150	2300-3700	Ø 360	1360	195	Ø 6"
NEA3000010	CYCLONE - DN200	DN 200	3800-5500	Ø 500	1766	320	Ø 8"

DRAIN AUTOMATIC KIT

PART NUMBER	MODEL	IN/OUT
NEA3005001	CYCLONE KIT - 3/4"	3/4"
NEA3005002	CYCLONE KIT - 1"	3/4"
NEA3005003	CYCLONE KIT - 1 1/4"	3/4"
NEA3005004	CYCLONE KIT - 1 1/2"	3/4"
NEA3005005	CYCLONE KIT - 2"	1"1/4
NEA3005006	CYCLONE KIT - 3"	1"1/4
NEA3005007	CYCLONE KIT - DN100	1"1/2
NEA3005008	CYCLONE KIT - DN125	1"1/2
NEA3005009	CYCLONE KIT - DN150	2"
NEA3005010	CYCLONE KIT - DN150	2"



VORTEX PRO

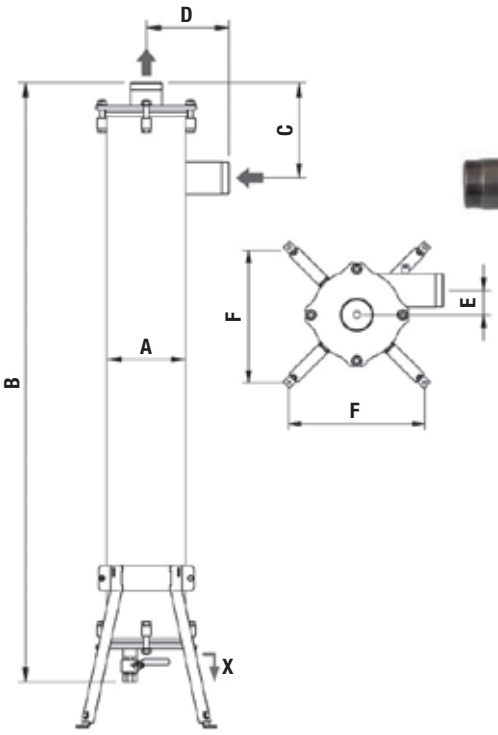
Stainless stell centrifugal separating filters

MAX WORKING PRESSURE
10 bar (145 psi)
***16 bar (232 psi)**
*16 bar on demand

COLDWATER

HOTWATER

MAX WORKING TEMPERATURE
60°C (140°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



VORTEX filters are centrifugal separating filters (hydrocyclones) with stainless steel body, especially designed for water containing sands or particles with of a specific weight greater than water (PS> 1). VORTEX filters can remove up to 99% of sands and/or particles with dimensions greater than 75 µm and up to 65% with dimensions greater than 50 µm. VORTEX filters are designed to reduce head losses but maintaining the best separating efficiency, work continuously, do not contain filtrating elements or moving parts, can be inspected and the bottom drain can be equipped with a manual or automatic valve.

OPERATING

Dirty water flows into the filter through the tangential port, where it is given a rotational movement downwards through the filter body. The spinning movement is increased thanks to the inner cone, thus enhancing the centrifugal forces and moving solid particles outwards. Solid-free water flows upwards to the center of the filter towards the top outlet, while solids move down in a spiral path to the collector chamber where a deflector plate stops their rotating movement and prevents their upsurging. Separated solids purge through the flushing valve.

TECHNICAL SPECIFICATIONS

Filtration field: 1000 ÷ 50 µm - Salinity: < 10.000 ppm TDS - Acidity: pH 3 ÷ 9

MATERIALS

Filter body / Cover: AISI 304 / AISI 316 -Body support: AISI 304 - Taper: PVC - Deflector: AISI 304 / AISI 316
Gasket: EPDM - Surface finishing: Etching

VORTEX

MODEL	IN/OUT	DRAIN	MIN FLOW RATE*	MAX FLOW RATE*	DIMENSIONS mm							WEIGHT
			m³/h	m³/h	A	B	C	D	E	F	X	kg
VX 3/4"	3/4" BSPP	1/2" BSPP	2	4	89	575	155	110	30	355	220	9
VX 1"	1" BSPP	3/4" BSPP	4	9	114	910	155	120	40	310	220	15
VX 1" 1/2	1"1/2 BSPP	1" BSPP	8	18	140	1130	195	160	45	310	220	23
VX 2"	2" BSPP	1" BSPP	15	30	168	1270	205	190	55	325	220	30
VX 3"	3" BSPP	1" BSPP	25	60	219	1670	265	230	65	360	220	51
VX 100	DN100	1"1/2 BSPP	54	105	273	1940	315	300	80	385	250	85
VX 150	DN150	1"1/2 BSPP	95	190	324	2250	335	400	80	465	300	105
VX 150P	DN150	2" BSPP	180	300	406	2400	505	405	125	525	300	130

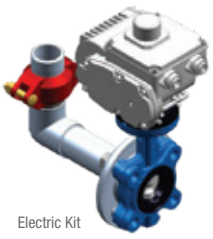
*Flow rates are referred to filters with 120 µm filtrating mesh and water with temperature of 20 °C and NTU < 1.
X = length required for maintenance

AUTOMATIC FLUSHING VALVE

It is possible to automate the filter drain simply installing an automatic flushing kit; it is available with hydraulic pneumatic or electric valve and includes all necessary parts for installation. Automation kit can be provided with electronic controller for stand alone functioning or simply with cables to be connected to an existing control panel.


Hydraulic Kit


Pneumatic Kit


Electric Kit

HYDRAULIC KIT

MODEL
VX 3/4" Hydraulic Kit
VX 1" Hydraulic Kit
VX 1" 1/2 Hydraulic Kit
VX 2" Hydraulic Kit
VX 3" Hydraulic Kit
VX 100 Hydraulic Kit
VX 150 Hydraulic Kit
VX 150P Hydraulic Kit

PNEUMATIC KIT

MODEL
VX 3/4" Pneumatic Kit
VX 1" Pneumatic Kit
VX 1" 1/2 Pneumatic Kit
VX 2" Pneumatic Kit
VX 3" Pneumatic Kit
VX 100 Pneumatic Kit
VX 150 Pneumatic Kit
VX 150P Pneumatic Kit

ELECTRIC KIT

MODEL
VX 3/4" Electric Kit
VX 1" Electric Kit
VX 1" 1/2 Electric Kit
VX 2" Electric Kit
VX 3" Electric Kit
VX 100 Electric Kit
VX 150 Electric Kit
VX 150P Electric Kit

FDD

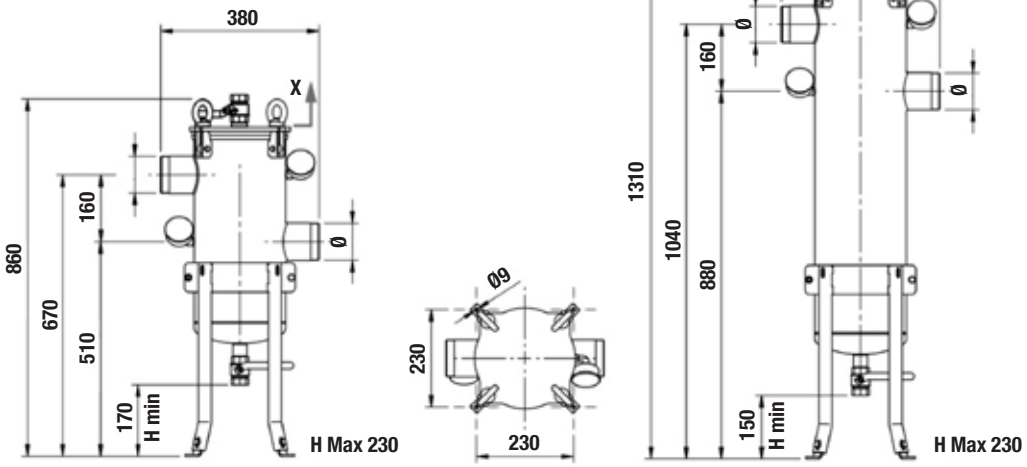
Stainless steel dirt separators

MAX WORKING PRESSURE
10 bar (145 psi)

COLDWATER

HOTWATER

MAX WORKING TEMPERATURE
90°C (176°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



FDD is a bag filter feeder especially designed to be connected in side stream circuits on HVAC piping systems with the purpose of keeping water clean and chemically additivated. FDD are built in stainless steel and are equipped with a filtering bag (with supporting stainless steel strainer closed at the bottom) inside which it is possible to insert conditioners and chemical additives as required.
FDD filters are available in two sizes ("D" and "S") and are supplied with vent valve on the lid, hand operated purge valve at the bottom end, two manometers and adjustable supporting stand. Lid closure is realized with swing bolts for easy cleaning operation, bag replacement or chemical additives recharge.

FDD

MODEL	IN/OUT	DRAIN	VENT VALVE	SCREEN AREA cm²	X mm	WEIGHT kg
FDD - S	2" BSPP	1" BSPP	1" BSPP	2400	500	23
FDD - D	2" BSPP	1" BSPP	1" BSPP	4500	700	30
FDD - S pred. magnetic kit	2" BSPP	1" BSPP	1" BSPP	2400	500	23
FDD - D pred. magnetic kit	2" BSPP	1" BSPP	1" BSPP	4500	700	30

X = length required for maintenance

FILTRATION

Dirty water flows in to the filter through the inlet port across the filtering element inside of which all suspended solids are retained; clean water exits from the output port.

MAINTENANCE

Cleaning or replacement of the filtering bag has to be done when the increasing clogging up of the debris causes an excessive pressure loss between inlet and outlet connections (tipically 0,8÷1bar). Alle these operations must be done having relieved filter pressure and require emptying the filter housing through the purge valve at the bottom before opening the lid.

TECHNICAL SPECIFICATIONS

ΔP Filter bag replacement: 0.7 bar (at 25°C) - Filter bag Max allowable ΔP: 3.5 bar (at 25°C)
Useful volume: 16 l (FDD S) - 32 l (FDD D)
Screen area: 2300 cm² (FDD S) - 4500 cm² (FDD D)

MATERIALS

Filter body - Cover: AISI 304
Bag support: AISI 316 -Body support: AISI 304 (Adjustable height)
Filter bag: Polyester - Gasket: EPDM
Surface finishing: Micro shot-peening and passivation

FILTRATION BAG	FILTRATION DEGREE	S MODEL DIMENSIONS mm	S MODEL FLOW RATE m³/h*	D MODEL DIMENSIONS mm	D MODEL FLOW RATE m³/h*
BAG 05	5 µm	Ø 178 L 420	12	Ø 178 L 810	22
BAG 10	10 µm		19		36
BAG 25	25 µm		24		45
BAG 50	50 µm		27		51
BAG 100	100 µm		33		62

*Flow rates are referred to water with temperature of 20 °C and NTU < 1.

SPARE PARTS - ACCESSORIES

MODEL
Bag mod. S - 1 micron
Bag mod. S - 5 micron
Bag mod. S - 10 micron
Bag mod. S - 25 micron
Bag mod. S - 50 micron
Bag mod. S - 100 micron
Bag mod. D - 1 micron
Bag mod. D - 5 micron
Bag mod. D - 10 micron
Bag mod. D - 25 micron
Bag mod. D - 50 micron
Bag mod. D - 100 micron
Magnet Kit - 300 mm
Magnet Kit - 450 mm
Magnet Kit - 600 mm
Differential pressure kit

PROFI-PLUS 3/4”-2”

Manual backwash filters

MAX WORKING TEMPERATURE
30°C (86°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

JPF + Model

Models JPF+ from 3/4” to 2”
DIN EN 13443-1 and DIN 19628 compliant

Self-cleaning backwash filters featuring exclusive backwash system for use with water temperatures up to 30°C. The unit cover cap is made of synthetic materials PN 16; the pipe connector is made of brass and comes with a screw-on connection. It can be rotated 360° for installation in both horizontally and vertically running pipes: male threading according to DIN EN 10226-1: net in stainless steel and silver plated to reduce bacterial growth: average filter rating 100 micron.
Backwash is started by turning the practically shaped handle at the top of the unit and connected to the exclusive point-rotation-system for the simultaneous cleaning of both filter net and viewing glass.
Backwashing is carried out at a flow rate of 5.5 m/s allowing ain increase in cleaning speed and offering a marked reduction of water used compared to traditional systems. Flush valve connection DIN 1988 compliant.
A flush reminder and alarm are integrated into the unit cap which sounds every two months if the unit has not been backwashed. Also available in other filter sizes.
No interruption to the water supply during backwash.

PROFI-PLUS 3/4”-2”

PART NUMBER	MODEL	IN/OUT	FLOW RATE (MAX) m³/h*	CONNECTIONS LENGTH mm	NET SIZE µm
NEA5010001	PROFI PLUS JPF+ 3/4" MANUAL	3/4"	4,1 (6,7)	180	100
NEA5010002	PROFI PLUS JPF+ 1" MANUAL	1"	4,7 (7,6)	195	100
NEA5010003	PROFI PLUS JPF+ 1"1/4 MANUAL	1"1/4	5,3 (8,5)	230	100
NEA5010004	PROFI PLUS JPF+ 1"1/2 MANUAL	1"1/2	13 (18)	252	100
NEA5010005	PROFI PLUS JPF+ 2" MANUAL	2"	16 (22)	280	100

* with a potable water supply and on a clean net, pressure los 0.2 (0.5) bar. For heavy dirt loads or process water, select bigger sized model.
Please contact our technical office for more informations.

PROFIMAT-PLUS 3/4”-2”

Automatic backwash filters

MAX WORKING TEMPERATURE
30°C (86°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

JPF+ -AT model

Models JPF+ -A from 3/4” to 2”
DIN EN 13443-1 and DIN 19628 compliant

Automatic self-cleaning backwash filters featuring exclusive backwash system for use with water temperatures up to 30°C. The unit cover cap is made of synthetic materials PN 16; the pipe connector is made of brass and comes with a screw-on connection. It can be rotated 360° for installation in both horizontally and vertically running pipes: male threading according to DIN EN 10226-1: net in stainless steel and silver plated to reduce bacterial growth: average filter rating 100 micron.
Backwash is started by a 9V motor which is connected to the exclusive point-rotation-system for the simultaneous cleaning of both filter screen and viewing glass.
Backwashing is carried out at a flow rate of 5.5 m/s allowing ain increase in cleaning speed and offering a marked reduction of water used compared to traditional systems. Flush valve connection DIN 1988 compliant.
Backwash start-up settings are: hourly, daily, weekly and monthly (version T) and additionally by a initially regulated differential pressure switch (version TP). Also available in other net sizes.
No interruption to the water supply during backwash.

PROFIMAT-PLUS 3/4”-2”

PART NUMBER	MODEL	IN/OUT	FLOW RATE (MAX) m³/h*	CONNECTIONS LENGTH mm	NET SIZE µm
NEA5010006	PROFI PLUS JPF+ -AT 3/4" TIME	3/4"	4,1 (6,7)	180	100
NEA5010007	PROFI PLUS JPF+ -AT 1" TIME	1"	4,7 (7,6)	195	100
NEA5010008	PROFI PLUS JPF+ -AT 1"1/4 TIME	1"1/4	5,3 (8,5)	230	100
NEA5010009	PROFI PLUS JPF+ -AT 1"1/2 TIME	1"1/2	13 (18)	252	100
NEA5010010	PROFI PLUS JPF+ -AT 2" TIME	2"	16 (22)	280	100
NEA5010011	PROFI PLUS JPF+ -ATP 3/4" TIME PRESSURE	3/4"	4,1 (6,7)	180	100
NEA5010012	PROFI PLUS JPF+ -ATP 1" TIME PRESSURE	1"	4,7 (7,6)	195	100
NEA5010013	PROFI PLUS JPF+ -ATP 1"1/4 TIME PRESSURE	1"1/4	5,3 (8,5)	230	100
NEA5010014	PROFI PLUS JPF+ -ATP 1"1/2 TIME PRESSURE	1"1/2	13 (18)	252	100
NEA5010015	PROFI PLUS JPF+ -ATP 2" TIME PRESSURE	2"	16 (22)	280	100

* with a potable water supply and on a clean net, pressure los 0.2 (0.5) bar. For heavy dirt loads or process water, select bigger sized model.
Please contact our technical office for more informations.

PROFI DN 65-200

Manual backwash filters

MAX WORKING TEMPERATURE
30°C (86°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

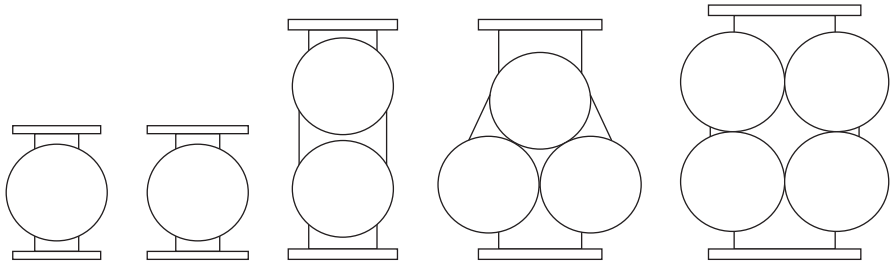
JPF DN 80 model

ModelS JPF from DN 65 to DN 200

DIN EN 13443-1 and DIN 19628 compliant

Manual backwash self-cleaning filters with exclusive backwash system for use in water up to 30°C. The unit cover cap is made of synthetic materials PN 16. The cast iron body is internally and externally coated with corrosion resistant synthetic material, flanged connections; filter net of stainless steel, silver plated to reduce bacterial growth, average filter rating 100 micron.
Backwash is started by turning the practically shaped handle at the top of the unit and connected to the exclusive point-rotation-system for the simultaneous cleaning of both filter net and viewing glass.
Backwashing is carried out at a flow rate of 5.5 m/s allowing ain increase in cleaning speed and offering a marked reduction of water used compared to traditional systems.
Flush connection DIN 1988 compliant.
DN 65 to DN 100 models are supplied with single filter net, DN 125 with 2 filter nets, DN 150 with 3 filter nets and DN 200 with 4 filter nets.
Also available in other filter sizes. No interruption to the water supply during backwash.

TOP VIEW



DIN 80 DIN 100 DIN 125 DIN 150 DIN 200

PROFI DN 65-200

PART NUMBER	MODEL	IN/OUT	FLOW RATE (MAX) m³/h*	CONNECTIONS LENGTH mm	NET SIZE µm
NEA5010016	PROFI JPF DN65 MANUAL	DN 65	25 (28)	240	100
NEA5010017	PROFI JPF DN80 MANUAL	DN 80	50 (65)	320	100
NEA5010018	PROFI JPF DN100 MANUAL	DN 100	60 (78)	320	100
NEA5010019	PROFI JPF DN125 MANUAL	DN 125	100	560	100
NEA5010020	PROFI JPF DN150 MANUAL	DN 150	150	560	100
NEA5010021	PROFI JPF DN200 MANUAL	DN 200	200	600	100

* with a potable water supply and on a clean net, pressure los 0.2 (0.5) bar. For heavy dirt loads or process water, select bigger sized model. Please contact our technical office for more informations.

JPF DN 200 model

PROFIMAT DN 65-200

Automatic backwash filters

MAX WORKING TEMPERATURE
30°C (86°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

JPF-ATP DN 65 model

Models JPF-A from DN 65 to DN 200

DIN EN 13443-1 and DIN 19628 compliant

Automatic backwash self-cleaning filters with exclusive backwash system for use in water up to 30°C. The unit cover cap is made of synthetic materials PN16. The cast iron body is internally and externally coated with corrosion resistant synthetic material, flanged connections; filter sieve of stainless steel, silver plated to reduce bacterial growth: average filter rating 100 micron.
Backwash is started by a 24V motor which is connected to the exclusive point-rotation-system for the simultaneous cleaning of both filter screen and viewing glass.
Backwashing is carried out at a flow rate of 5.5 m/s allowing ain increase in cleaning speed and offering a marked reduction of water used compared to traditional systems.
Backwash start-up settings are: hourly, daily, weekly and monthly (version T) and additionally by a initially regulated differential pressure switch (version TP).
Also available in other filter sizes. Connections DIN 1988 compliant. DN 65 to DN 100 models are supplied with single filter net, DN 125 with 2 filter nets, DN 150 with 3 filter nets and DN 200 with 4 filter nets.
No interruption of the water supply during backwashing.

PROFIMAT DN 65-200

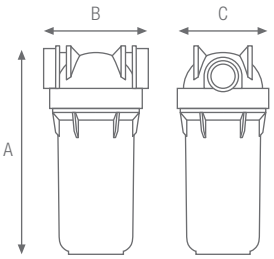
PART NUMBER	MODEL	IN/OUT	FLOW RATE (MAX) m^3/h*	CONNECTIONS LENGTH mm	NET SIZE µm
NEA5010022	PROFI JPF -AT DN65 TIME	DN 65	25 (28)	240	100
NEA5010023	PROFI JPF -AT DN80 TIME	DN 80	50 (65)	320	100
NEA5010025	PROFI JPF -AT DN100 TIME	DN 100	60 (78)	320	100
NEA5010024	PROFI JPF -ATP DN65 TIME PRESSURE	DN 65	25 (28)	240	100
NEA5010026	PROFI JPF -ATP DN80 TIME PRESSURE	DN 80	50 (65)	320	100
NEA5010027	PROFI JPF -ATP DN100 TIME PRESSURE	DN 100	60 (78)	320	100
NEA5010028	PROFI JPF -ATP DN125 TIME PRESSURE	DN 125	100	560	100
NEA5010029	PROFI JPF -ATP DN150 TIME PRESSURE	DN 150	150	560	100
NEA5010030	PROFI JPF -ATP DN200 TIME PRESSURE	DN 200	200	600	100

* with a potable water supply and on a clean net, pressure los 0.2 (0.5) bar. For heavy dirt loads or process water, select bigger sized model.
Please contact our technical office for more informations.

JPF-ATP DN 200 model

DP BIG HOUSINGS

For cartridges with outer diameter from 4 "to 4.5" (101.6-114.3 mm) with SX standard flat seals.



MAX WORKING PRESSURE
8,3 bar (120 psi)

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

POINT OF ENTRY **COLDWATER**

SPECIFICATIONS:

Selected raw materials, suitable for drinking water.
Head: reinforced polypropylene. Bowl: reinforced polypropylene.
O-ring: EPDM.
Breather-valve: body polypropylene, o-ring EPDM.
Manometers: radial type, pressure range 0-12 bar, 0-170 psi.

HEIGHTS:

10", 20".

CARTRIDGE TYPE:

BIG SX

THREADS

IN
PLASTIC BSPP

NPT-IN
PLASTIC NPT

OT
BRASS BSPP

MODELS

MONO

DUO

TRIO

VERSIONS

-M-
with manometers

ACCESSORY INCLUDED:

Lubrikit+

-DP BIG- spanner

ACCESSORIES AVAILABLE:

1" brass nipples with o-ring (pair)

-DP BIG MONO- wall bracket

CERTIFICATIONS:

Range of housings certified by IAPMO R&T against NSF/ANSI 42 for material safety requirements and structural integrity only, 61, 372 lead free, CSA B483.1.

prodotto conforme a D.M. 25/2012

Housings are certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), and EAC/ Ghostreghistrazia (Russia).

DP BIG MONO

HOUSINGS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1700712	DP BIG 10 MONO - 1" IN AB	10"	1"	360	190	185
RA1700912	DP BIG 10 MONO - 1"1/2 IN AB	10"	1"1/2	360	190	185
RA1800712	DP BIG 20 MONO - 1" IN AB	20"	1"	617	190	185
RA1800912	DP BIG 20 MONO - 1"1/2 IN AB	20"	1"1/2	617	190	185

HOUSINGS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1700612	DP BIG 10 MONO - 1" OT AB	10"	1"	360	190	185
RA1800612	DP BIG 20 MONO - 1" OT AB	20"	1"	617	190	185

DP BIG M MONO

HOUSINGS WITH PLASTIC BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1700732	DP BIG M 10 MONO - 1" IN AB	10"	1"	435	190	185
RA1700932	DP BIG M 10 MONO - 1"1/2 IN AB	10"	1"1/2	435	190	185
RA1800732	DP BIG M 20 MONO - 1" IN AB	20"	1"	682	190	185
RA1800932	DP BIG M 20 MONO - 1"1/2 IN AB	20"	1"1/2	682	190	185

HOUSINGS WITH BRASS BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1700632	DP BIG M 10 MONO - 1" OT AB	10"	1"	435	190	185
RA1800632	DP BIG M 20 MONO - 1" OT AB	20"	1"	682	190	185

DP BIG DUO

HOUSINGS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1702712	DP BIG 10 DUO - 1" IN AB	10"	1"	375	390	185
RA1702912	DP BIG 10 DUO - 1"1/2 IN AB	10"	1"1/2	375	390	185
RA1802712	DP BIG 20 DUO - 1" IN AB	20"	1"	640	390	185
RA1802912	DP BIG 20 DUO - 1"1/2 IN AB	20"	1"1/2	640	390	185

HOUSINGS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1702612	DP BIG 10 DUO - 1" OT AB	10"	1"	375	390	185
RA1802612	DP BIG 20 DUO - 1" OT AB	20"	1"	640	390	185

DP BIG M DUO

HOUSINGS WITH PLASTIC BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1702732	DP BIG M 10 DUO - 1" IN AB	10"	1"	440	390	185
RA1702932	DP BIG M 10 DUO - 1"1/2 IN AB	10"	1"1/2	440	390	185
RA1802732	DP BIG M 20 DUO - 1" IN AB	20"	1"	705	390	185
RA1802932	DP BIG M 20 DUO - 1"1/2 IN AB	20"	1"1/2	705	390	185

HOUSINGS WITH BRASS BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1702632	DP BIG M 10 DUO - 1" OT AB	10"	1"	440	390	185
RA1802632	DP BIG M 20 DUO - 1" OT AB	20"	1"	705	390	185

DP BIG TRIO

HOUSINGS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1703712	DP BIG 10 TRIO - 1" IN AB	10"	1"	375	590	185
RA1703912	DP BIG 10 TRIO - 1"1/2 IN AB	10"	1"1/2	375	590	185
RA1803712	DP BIG 20 TRIO - 1" IN AB	20"	1"	640	590	185
RA1803912	DP BIG 20 TRIO - 1"1/2 IN AB	20"	1"1/2	640	590	185

HOUSINGS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1703632	DP BIG M 10 TRIO - 1" OT AB	10"	1"	440	590	185
RA1803632	DP BIG M 20 TRIO - 1" OT AB	20"	1"	705	590	185

DP BIG M TRIO

HOUSINGS WITH PLASTIC BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1703732	DP BIG M 10 TRIO - 1" IN AB	10"	1"	440	590	185
RA1703932	DP BIG M 10 TRIO - 1"1/2 IN AB	10"	1"1/2	440	590	185
RA1803732	DP BIG M 20 TRIO - 1" IN AB	20"	1"	705	590	185
RA1803932	DP BIG M 20 TRIO - 1"1/2 IN AB	20"	1"1/2	705	590	185

HOUSINGS WITH BRASS BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	CARTRIDGE HEIGHT	IN/OUT	DIMENSIONS mm A	B	C
RA1703632	DP BIG M 10 TRIO - 1" OT AB	10"	1"	440	590	185
RA1803632	DP BIG M 20 TRIO - 1" OT AB	20"	1"	705	590	185

FA BIG *Polypropylene wound thread with double open end (DOE)*

Range of 4.50" OD filter cartridges made with polypropylene wound thread on reinforced polypropylene inner core, which guarantees its stability. Available in different nominal filtration rate. Used to remove sand, rust and other suspended sediments, for all residential, commercial and industrial applications.

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

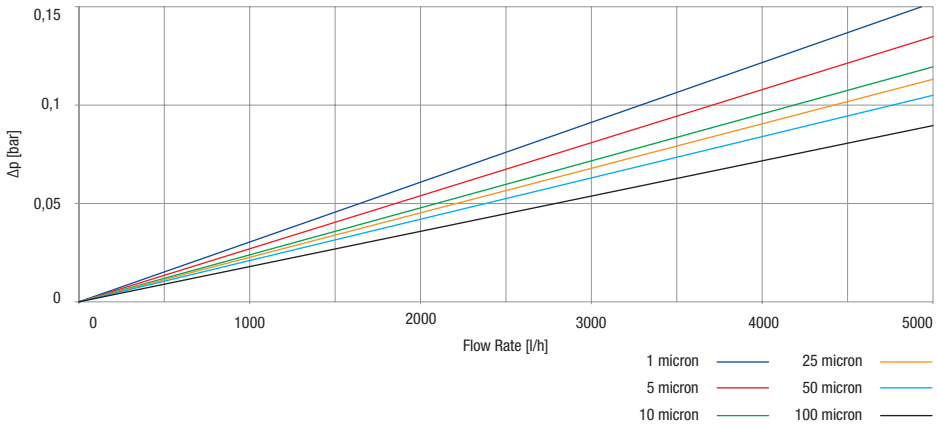
COLDWATER

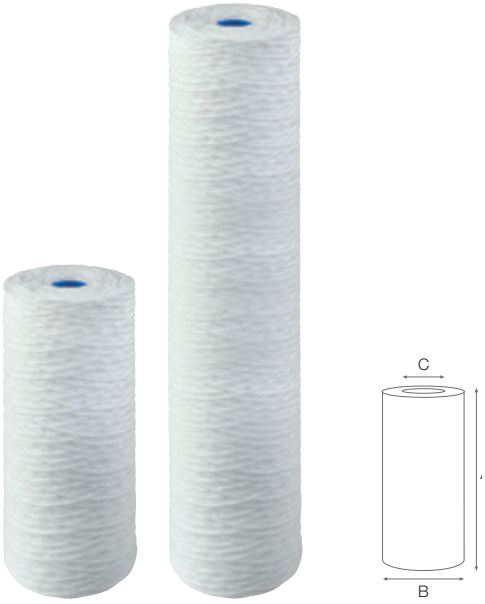
Sediment filtration.
Average life-span: 3-6 months.
Maintenance: none.

SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Filter medium: polypropylene thread.
Inner core: reinforced polypropylene.

Tests carried on 10" elements type **FA BIG 10 SX.** Testing mode: 20°C, 3 BAR





FA BIG SX

PART NUMBER	MODEL	NOMINAL HEIGHT	NOMINAL FILTRATION micron	RECOMMENDED FLOW RATE l/h	DIMENSIONS mm A	B	C
RE5115506	FA 10 BIG SX 1 mcr	10"	1	2500	250	110	28
RE5115508	FA 10 BIG SX 5 mcr	10"	5	2500	250	110	28
RE5115509	FA 10 BIG SX 10 mcr	10"	10	2500	250	110	28
RE5115511	FA 10 BIG SX 25 mcr	10"	25	2500	250	110	28
RE5115514	FA 10 BIG SX 50 mcr	10"	50	2500	250	110	28
RE5115519	FA 10 BIG SX 100 mcr	10"	100	2500	250	110	28
RE5117506	FA 20 BIG SX 1 mcr	20"	1	4000	508	110	28
RE5117508	FA 20 BIG SX 5 mcr	20"	5	4000	508	110	28
RE5117509	FA 20 BIG SX 10 mcr	20"	10	4000	508	110	28
RE5117511	FA 20 BIG SX 25 mcr	20"	25	4000	508	110	28
RE5117514	FA 20 BIG SX 50 mcr	20"	50	4000	508	110	28
RE5117519	FA 20 BIG SX 100 mcr	20"	100	4000	508	110	28

CERTIFICATIONS:

FA 10 BIG SX 25 mcr and FA 20 BIG SX 25 mcr cartridges are certified by IAPMO R&T against NSF/ANSI 42 - Material Safety Only, 61, 372 lead free, CSA B483.1 - Material Safety Only.

FA BIG cartridges are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), with the sanitary certification ACS (France) and EAC/ Ghostreghistrazia (Russia).

CB EC BIG *Extruded activated carbon block*

Range of 4.50" OD carbon block cartridges "environmentally friendly" manufactured, made with a proprietary technology reducing green-house gas emission in activated carbon production. Activated carbon block made from coconut shell, providing fine sediment filtration and reduction of chlorine, taste, odour (CTO), volatile organic compounds (VOC), heavy metal reduction (Pb) and filtration of protozoan (Giardia, Cryptosporidium) Cyst.

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

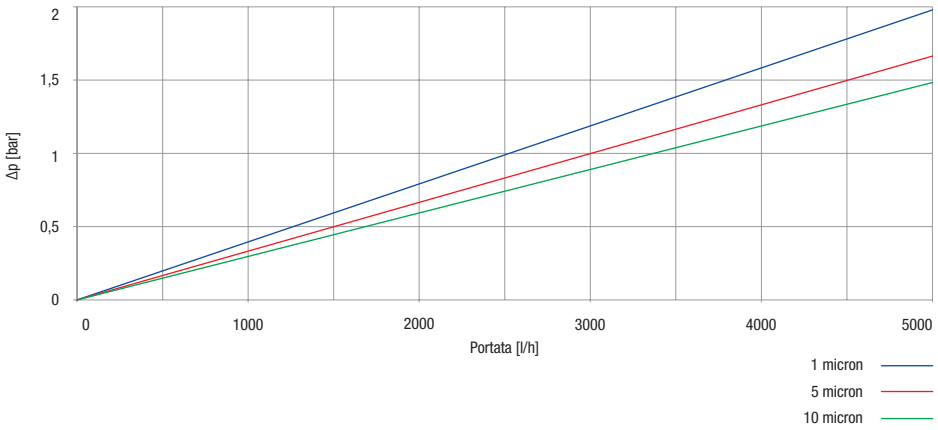
COLDWATER

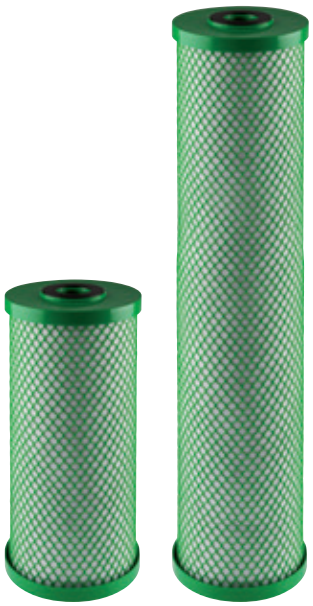
Fine sediment filtration and reduction of: chlorine, taste, odour (CTO); volatile organic compounds (VOC); heavy metals (Pb models).
Average life-span: 3-6 months.
Maintenance: none.

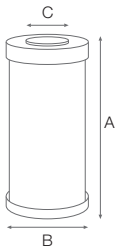
SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Filter medium: sintered block made from coconut shell activated carbon powder.
End caps, netting and outer protection sheet: polypropylene.
Flat seals: NBR.

Tests carried on 10" elements type **CB EC BIG 10 SX.** Testing mode: 20°C, 3 BAR







CB EC BIG SX

PART NUMBER	MODEL	NOMINAL HEIGHT	RECOMMENDED FLOW RATE l/h	DIMENSIONS mm A	B	C
RE5395506	CB-EC CYST 10 BIG SX - 1 mcr	10"	680	250	114	26
RE5397506	CB-EC CYST 20 BIG SX - 1 mcr	20"	1600	508	114	26
RE5395606	CB-EC Pb 10 BIG SX - 1 mcr	10"	680	250	114	26
RE5397606	CB-EC Pb 20 BIG SX - 1 mcr	20"	1600	508	114	26
RE5395508	CB-EC VOC 10 BIG SX - 5 mcr	10"	680	250	114	26
RE5397508	CB-EC VOC 20 BIG SX - 5 mcr	20"	1600	508	114	26
RE5395509	CB-EC CTO 10 BIG SX - 10 mcr	10"	680	250	114	26
RE5397509	CB-EC CTO 20 BIG SX - 10 mcr	20"	1600	508	114	26

CERTIFICATIONS:

COMPONENT
CB-EC BIG models are tested and cerified by WQA according to NSF/ANSI Standard 42 for materials requirements only.

- CB-EC CYST 10 models meet Cyst reduction criteria as per NSF/ANSI 53 test protocol Class II and NSF/ANSI 42 test protocol
- CB-EC PB1 10 models meet Lead reduction criteria as per NSF/ANSI 53 test protocol.
- CB-EC10VOC models meet VOC reduction criteria as per NSF/ANSI 53 test protocol Class II and NSF/ANSI 42.
- CB-EC CTO 10 models meet Aesthetic Chlorine reduction criteria as per NSF/ANSI 42 test protocol.

prodotto conforme a D.M. 25/2012

CB-EC BIG cartridges are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy) and with the sanitary certification EAC/ Ghostreghistrazia (Russia).

CPP BIG *Melt-blown polypropylene*

A range of 4.50" OD melt-blow polypropylene cartridges designed to fit to DP BIG housings and respond to the most effective heavy-duty sediment filtration requirements, suitable to industrial as well as domestic applications. Atlas Filtri CPP BIG melt-blown cartridges are made to comply with the most stringent regulations for applications in drinking water. Polypropylene is suitable to many industrial applications due to its wide chemical-physical compatibility to a variety of water-based solutions.

MAX WORKING TEMPERATURE
80°C (176°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

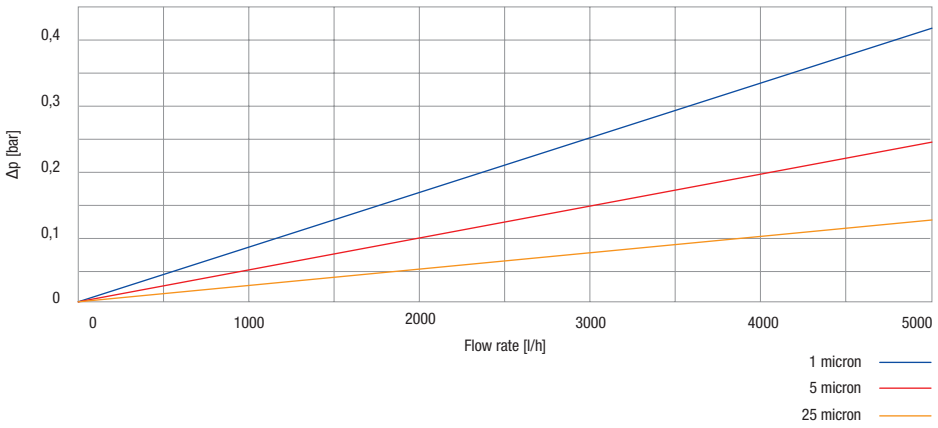
COLDWATER HOTWATER

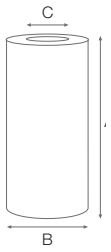
Sediment filtration.
Average life-span: 3-6 months.
Maintenance: none.

SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Filter medium: polypropylene.

Tests carried on 10" elements type **CPP BIG 10 SX.** Testing mode: 20°C, 3 BAR





CPP BIG SX

PART NUMBER	MODEL	NOMINAL HEIGHT	NOMINAL FILTRATION micron	RECOMMENDED FLOW RATE l/h	DIMENSIONS mm A	B	C
RE5706606	CPP 10 BIG SX 1 mcr	10"	1	2500	250	112	28
RE5706608	CPP 10 BIG SX 5 mcr	10"	5	2500	250	112	28
RE5706611	CPP 10 BIG SX 25 mcr	10"	25	2500	250	112	28
RE5706906	CPP 20 BIG SX 1 mcr	20"	1	4000	511	112	28
RE5706908	CPP 20 BIG SX 5 mcr	20"	5	4000	511	112	28
RE5706911	CPP 20 BIG SX 25 mcr	20"	25	4000	511	112	28

CERTIFICATIONS:

CPP 10 BIG SX 5 mcr and CPP 20 BIG SX 5 mcr cartridges are certified by IAPMO R&T to NSF/ANSI 42 - Material Safety Only, 61, 372 - lead free, CSA B483.1 - Material Safety Only.

CPP BIG cartridges are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy) and with the sanitary certification EAC/Ghostreghistrazia (Russia).

LA BIG SX

4.50” OD container with granular activated carbon for DP BIG housings

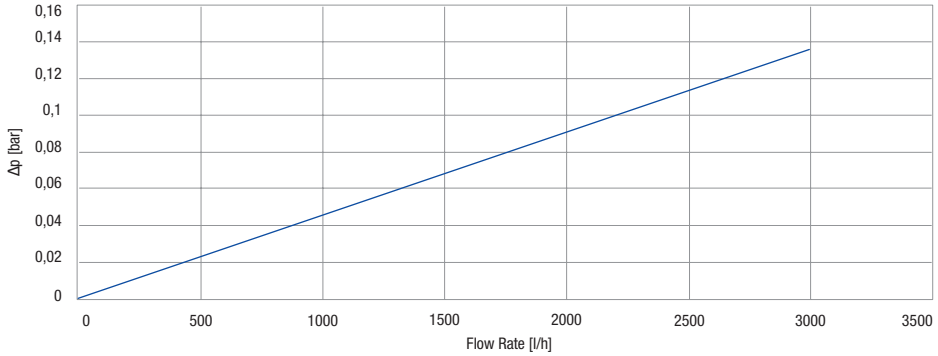
Plastic container filled with GAC, made from coconut shell for the reduction of chlorine, taste, odour (CTO) and volatile organic compounds (VOC) , designed to provide the highest contact time of the water through the whole GAC bed. LA-Ag with silver impregnated carbon for bacteriostatic effect. LA BIG cartridges are available in 10” and 20” height.

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

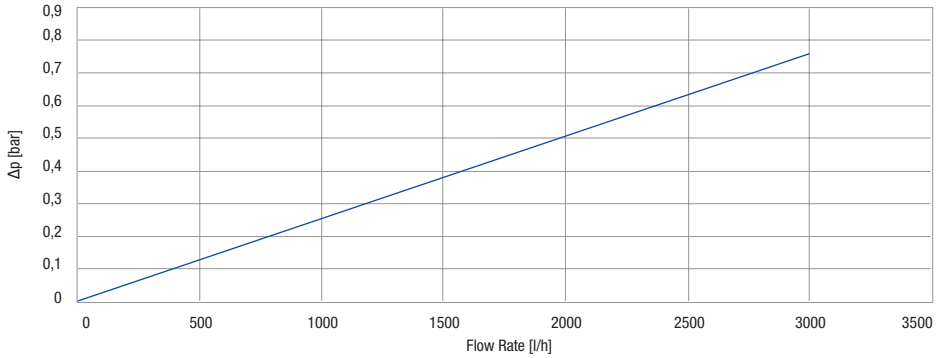
COLDWATER

Reduction of: chlorine, taste, odour (CTO); volatile organic compounds (VOC).
Media life-span: 3 months.
Maintenance: none.
Remark - Use a pre-filter to protect the cartridge.
Treatment material: granular activated carbon from coconut shell.

Tests carried on 10” elements type **LA 10 BIG SX**. Testing mode: 20°C, 3 BAR

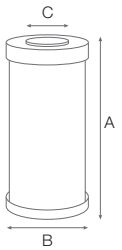


Tests carried on 10” elements type **LA Ag 10 BIG SX**. Testing mode: 20°C, 3 BAR



CONTAINER - TECHNICAL SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Endcaps: Polypropylene.
Container: PET.
Flat seal: SEBS with antimicrobial technology
Grid: Polypropylene.
Net: polyester.



LA BIG SX

PART NUMBER	MODEL (OD 4.50” x ID 1.10”)	NOMINAL HEIGHT	RECOMMENDED FLOW RATE l/h	DIMENSIONS mm A	B	C
RA5185625	LA 10 BIG SX TS	10”	1100	250	120	28
RA5187625	LA 20 BIG SX TS	20”	1700	508	120	28
RA5345625	LA-Ag 10 BIG SX TS	10”	1100	250	120	28
RA5347625	LA-Ag 20 BIG SX TS	20”	1700	508	120	28

CERTIFICATIONS:

P 10 BIG SX TS, P 10 BIG SX AB, P 10 BIG SX BW, P 20 BIG SX TS, P 20 BIG SX AB and P 20 BIG SX BW empty containers are certified by IAPMO R&T against NSF/ANSI Standards 42, 61, 372 and CSA B483.1 for material safety and lead free requirements.

LA BIG cartridges are tested and certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 -Italy- and EAC/Ghostreghistrazia -Russia- (complete cartridge) and ACS -France- (only empty container).
Carbon is in compliance with standard UNI EN 12915-1:2009 “Products used for the treatment of water intended for human consumption - Granular activated carbon - Part 1: Virgin granular activated carbon”.

HA BIG SX

4.5” OD container with polyphosphate crystals for DP BIG housings

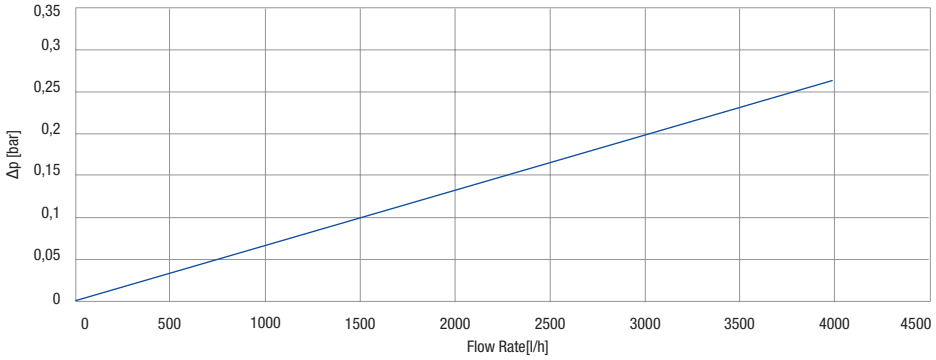
Plastic container filled with polyphosphate crystals for anti-scale water conditioning providing prevention form scale deposit and calcareous incrustation and protection from corrosion for water heaters, washing machines, pipes. HA BIG cartridges are available in 10” and 20” height.

MAX WORKING TEMPERATURE
35°C (95°F)
MAX WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

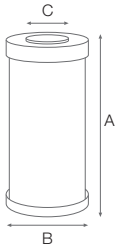
Anti-scale and anti-corrosion conditioning.
Media life-span: 6 months.
Maintenance: none.
Remark - Use a pre-filter to protect the cartridge.
Treatment material: polyphosphate crystals
Max total hardness: 50°f (500 ppm $CaCO^3$)
Remark - the treated water can be heated up to 75°C - 80°C, above that temperature the polyphosphate loses gradually its effectiveness.

Tests carried on 10” elements type **HA 10 BIG SX**. Testing mode: 20°C, 3 BAR



CONTAINER - TECHNICAL SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Endcaps: Polypropylene.
Container: PET.
Flat seal: SEBS with antimicrobial technology
Grid: Polypropylene.
Net: polyester.



HA BIG SX

PART NUMBER	MODEL (OD 4.50” x ID 1.10”)	NOMINAL HEIGHT	RECOMMENDED FLOW RATE l/h	DIMENSIONS mm A	B	C
RA5195625	HA 10 BIG SX TS	10”	3300	250	120	28
RA5197625	HA 20 BIG SX TS	20”	4000	508	120	28

CERTIFICATIONS:

P 10 BIG SX TS, P 10 BIG SX AB, P 10 BIG SX BW, P 20 BIG SX TS, P 20 BIG SX AB and P 20 BIG SX BW empty containers are certified by IAPMO R&T against NSF/ANSI Standards 42, 61, 372 and CSA B483.1 for material safety and lead free requirements.

HA BIG cartridges are tested and certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 -Italy- and EAC/Ghostreghistrazia -Russia- (complete cartridge) and ACS -France- (only empty container).
Polyphosphate is in compliance with standard UNI EN 1208:2005 on chemical products used for treatment of water intended for human consumption.

LA-HA BIG SX

OD 4.5" container with granular activated carbon and polyphosphate crystals for DP BIG housings

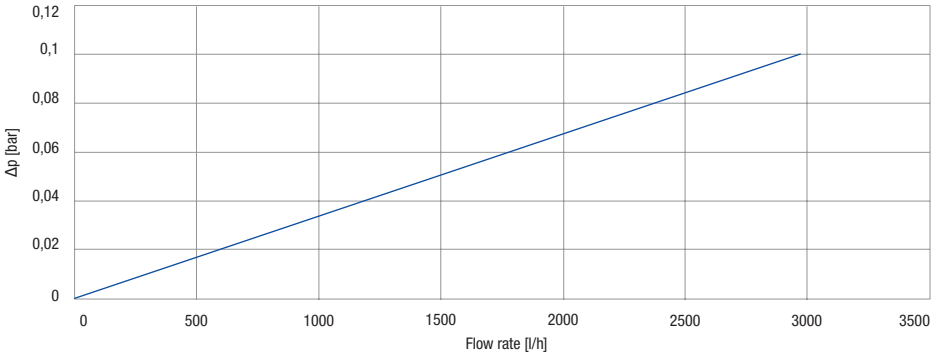
Plastic container filled with GAC, made from coconut shell for the reduction of chlorine, taste, odour (CTO) and volatile organic compounds (VOC) and polyphosphate crystals for anti-scale water conditioning providing prevention form scale deposit and calcareous incrustation and protection from corrosion for water heaters, washing machines, pipes. LA-HA BIG cartridges are available in 20" height.

MAX WORKING TEMPERATURE
35°C (95°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

Reduction of: chlorine, taste, odour (CTO);
volatile organic compounds (VOC).
Anti-scale and anti-corrosion conditioning.
Carbon life-span: 3 months.
Polyphosphate life-span: 6 months.
Maintenance: none.
Remark - Use a pre-filter to protect the cartridge.
Treatment material: granular activated carbon from coconut shell and polyphosphate crystals.

Tests carried on 20" elements type **LA-HA 20 BIG SX**. Testing mode: 20°C, 3 BAR



CONTAINER - TECHNICAL SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Endcaps: Polypropylene.
Container: PET.
Flat seal: SEBS with antimicrobial technology
Grid: Polypropylene.
Net: polyester.

LA-HA BIG SX

PART NUMBER	MODEL (OD 4.50" x ID 1.10")	NOMINAL HEIGHT	RECOMMENDED FLOW RATE l/h	DIMENSIONS mm A	B	C
RA5407625	LA-HA 20 BIG SX TS	20"	1100	508	120	28

CERTIFICATIONS:

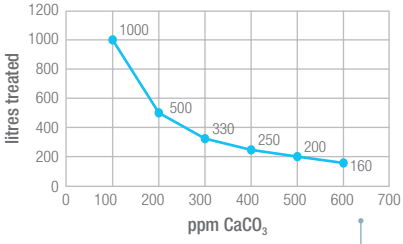
P 10 BIG SX TS, P 10 BIG SX AB, P 10 BIG SX BW, P 20 BIG SX TS, P 20 BIG SX AB and P 20 BIG SX BW empty containers are certified by IAPMO R&T against NSF/ANSI Standards 42, 61, 372 and CSA B483.1 for material safety and lead free requirements.

LA-HA BIG cartridges are tested and certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 -Italy- and EAC/Ghostreghistrazia -Russia- (complete cartridge) and ACS -France- (only empty container).
Carbon is in compliance with standard UNI EN 12915-1:2009 "Products used for the treatment of water intended for human consumption - Granular activated carbon - Part 1: Virgin granular activated carbon".
Polyphosphate is in compliance with standard UNI EN 1208:2005 on chemical products used for treatment of water intended for human consumption.

QA AF BIG SX

4.5” OD container with strong base anion exchange resin for DP BIG housings

Plastic container filled with anti-nitrate selective strong base anion exchange resin, for the reduction of nitrate content in drinking water. The concentration of nitrates in drinking water below 50 mg/l (as NO_3^-) is strongly recommended by World Health Organization (WHO) guidelines. QA AF BIG cartridges are available in 10” and 20” height.

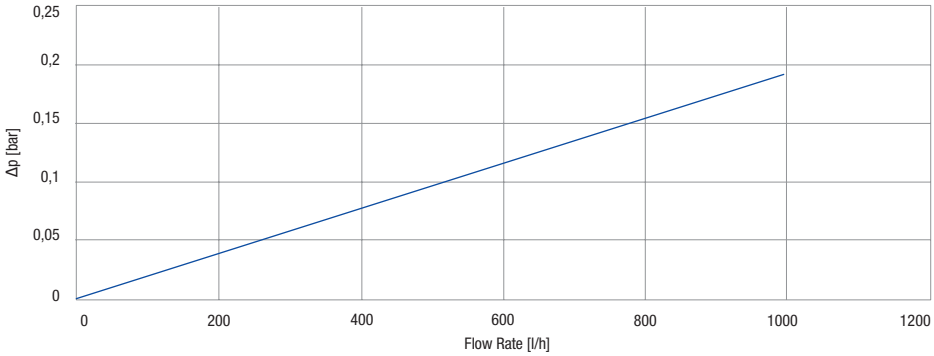


MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

Reduction of nitrates.
Media life-span: see the graph.
Maintenance: none.
Remark - Use a pre-filter to protect the cartridge.
Treatment material: strong base anion exchange resin, nitrates selective.
Max concentration NO_3^- : 200 ppm
Max concentration SO_4^{2-} : 200-300 ppm

Tests carried on 10” elements type **QA AF BIG SX**. Testing mode: 20°C, 3 BAR



CONTAINER TECHNICAL SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Endcaps: Polypropylene
Container: PET
Flat seal: SEBS with antimicrobial technology
Grid: Polypropylene.
Net: polyester.

QA AF BIG SX

PART NUMBER	MODEL (OD 4.50” x ID 1.10”)	NOMINAL HEIGHT	RECOMMENDED FLOW RATE l/h	DIMENSIONS mm A	B	C
RA5355625	QA AF 10 BIG SX TS	10”	110	250	120	28
RA5357625	QA AF 20 BIG SX TS	20”	200	508	120	28

CERTIFICATIONS:

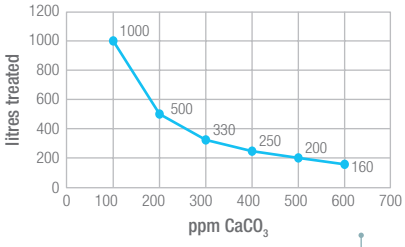
P 10 BIG SX TS, P 10 BIG SX AB, P 10 BIG SX BW, P 20 BIG SX TS, P 20 BIG SX AB and P 20 BIG SX BW empty containers are certified by IAPMO R&T against NSF/ANSI Standards 42, 61, 372 and CSA B483.1 for material safety and lead free requirements.

QA AF BIG cartridges are tested and certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 -Italy- and EAC/ Ghostreghistrazia -Russia- (complete cartridge) and ACS -France- (only empty container). Resin is in compliance with EU Regulation No 1935/2004 corresponds to the definition contained in FDA CFR 21 - 173.25.

QA CF BIG SX

4.5” OD container with strong acid cation exchange resin for DP BIG housings

Plastic container filled with strong acid cation exchange resin for the reduction of total hardness (TH), providing water softening with removal of Calcium and Magnesium.
QA CF BIG cartridges are available in 10” and 20” height.

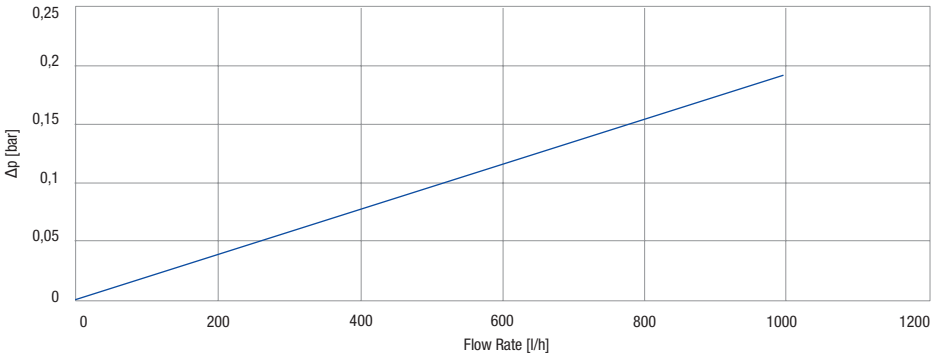


MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

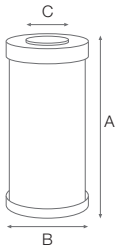
Water softening.
Media life-span: see the graph.
Maintenance: none.
Remark - Use a pre-filter to protect the cartridge.
Check the exhaustion of the resin using the specific Atlas Filtri EASY TEST strips.
Treatment material: strong acid cation exchange resin.
Max concentration Cl: 0,1 ppm
Max concentration Fe: 0,1 ppm

Tests carried on 10” elements type **QA-CF BIG SX**. Testing mode: 20°C, 3 BAR



CONTAINER - TECHNICAL SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Endcaps: Polypropylene
Container: PET
Flat seal: SEBS with antimicrobial technology
Grid: Polypropylene.
Net: polyester.



QA CF BIG SX

PART NUMBER	MODEL (OD 4.50” x ID 1.10”)	NOMINAL HEIGHT	RECOMMENDED FLOW RATE l/h	DIMENSIONS mm A	B	C
RA5205625	QA CF 10 BIG SX TS	10”	110	250	120	28
RA5207625	QA CF 20 BIG SX TS	20”	200	508	120	28

CERTIFICATIONS:

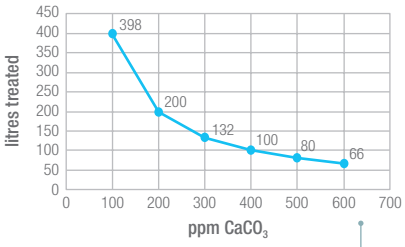
P 10 BIG SX TS, P 10 BIG SX AB, P 10 BIG SX BW, P 20 BIG SX TS, P 20 BIG SX AB and P 20 BIG SX BW empty containers are certified by IAPMO R&T against NSF/ANSI Standards 42, 61, 372 and CSA B483.1 for material safety and lead free requirements.

QA CF BIG cartridges are tested and certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 -Italy- and EAC/Ghostreghistrazia -Russia- (complete cartridge) and ACS -France- (only empty container).
Resin is certified NSF 44 and 61, in compliance with DM 174/2004.

QA LM BIG SX

4.5" OD container with mixed bed composed by cation and anion exchange resins for DP BIG housings

Plastic container filled with cation and anion exchange resins, for the production of deionized water. QA LM BIG cartridges are available in 10" and 20" height.

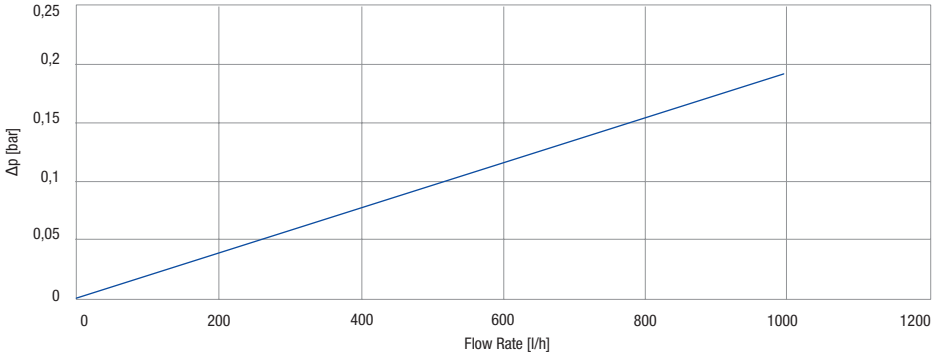


MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

Water demineralization.
Media life-span: see the graph.
Maintenance: none.
Remark - Use a pre-filter to protect the cartridge.
Note: the green resin changes its colour from green to blue when exhausted.
Treatment material: mixed bed composed by cation and anion exchange resins.
Max concentration Cl: 0,1 ppm
Max concentration Fe: 0,1 ppm

Tests carried on 10" elements type **QA LM BIG SX**. Testing mode: 20°C, 3 BAR



CONTAINER - TECHNICAL SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Endcaps: Polypropylene
Container: PET
Flat seal: SEBS with antimicrobial technology
Grid: Polypropylene.
Net: polyester.

QA LM BIG SX

PART NUMBER	MODEL (OD 4.50" x ID 1.10")	NOMINAL HEIGHT	RECOMMENDED FLOW RATE l/h	DIMENSIONS mm A	B	C
RA5215625	QA LM 10 BIG SX TS	10"	60	250	120	28
RA5217625	QA LM 20 BIG SX TS	20"	90	508	120	28

CERTIFICATIONS:

P 10 BIG SX TS, P 10 BIG SX AB, P 10 BIG SX BW, P 20 BIG SX TS, P 20 BIG SX AB and P 20 BIG SX BW empty containers are certified by IAPMO R&T against NSF/ANSI Standards 42, 61, 372 and CSA B483.1 for material safety and lead free requirements.

QA LM BIG cartridges are tested and certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 -Italy- and EAC/ Ghostreghistrazia -Russia- (complete cartridge) and ACS -France- (only empty container). Resin is in compliance with EU Regulation No 1935/2004 corresponds to the definition contained in FDA CFR 21 - 173.25.

CM BIG SX

4.5” OD container with mineralizing calcite for DP BIG housings

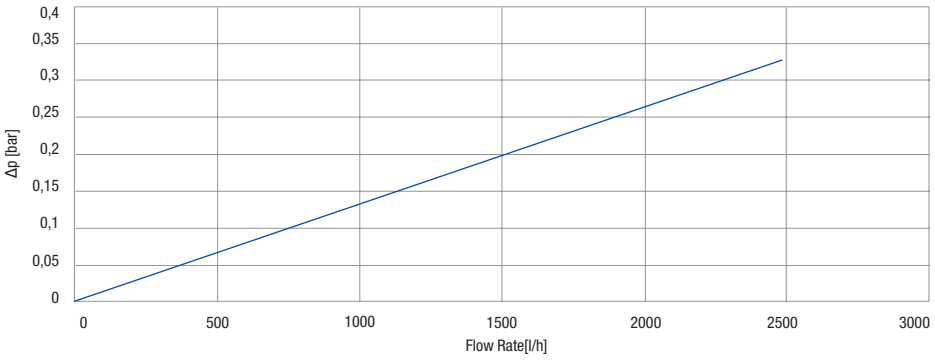
Plastic container filled with drinking water grade calcite, for the mineralization of water after reverse osmosis treatment. CM BIG cartridges are available in 10” and 20” height.

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

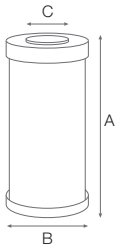
Media life-span: 6 months.
Maintenance: none.
Treatment material: drinking water grade calcite.

Tests carried on 10” elements type **CM 10 BIG SX**. Testing mode: 20°C, 3 BAR



CONTAINER - TECHNICAL SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Endcaps: Polypropylene.
Container: PET.
Flat seal: SEBS with antimicrobial technology
Grid: Polypropylene.
Net: polyester.



CM BIG SX

PART NUMBER	MODEL (OD 4.50” x ID 1.10”)	NOMINAL HEIGHT	RECOMMENDED FLOW RATE l/h	DIMENSIONS mm A	B	C
RA5415625	CM 10 BIG SX TS	10”	500	250	120	28
RA5417625	CM 20 BIG SX TS	20”	750	508	120	28

CERTIFICATIONS:

P 10 BIG SX TS, P 10 BIG SX AB, P 10 BIG SX BW, P 20 BIG SX TS, P 20 BIG SX AB and P 20 BIG SX BW empty containers are certified by IAPMO R&T against NSF/ANSI Standards 42, 61, 372 and CSA B483.1 for material safety and lead free requirements.

CM BIG cartridges are tested and certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 -Italy- and EAC/Ghostreghistrazia -Russia- (complete cartridge) and ACS -France- (only empty container).
Calcite complies with “Drinking Water Treatment Chemicals - Health effects” NSF/ANSI 60 standard.

CN BIG SX

4.5” OD container with neutralizing agent for DP BIG housings

Plastic container filled with a neutralizing agent for the treatment of acid condensate produced by condensing boilers. CN BIG cartridges are available in 10” and 20” height.

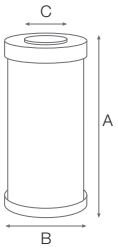
MAX WORKING TEMPERATURE
55°C (131°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

Media life-span: 2 years.
Maintenance: check material every 6 months, replace if it’s exhausted.

CONTAINER - TECHNICAL SPECIFICATIONS

Selected raw materials.
Endcaps: Polypropylene.
Container: PET.
Flat seal: SEBS with antimicrobial technology
Grid: Polypropylene.
Net: polyester.



CN BIG SX

PART NUMBER	MODEL (OD 4.50” x ID 1.10”)	NOMINAL HEIGHT	RECOMMENDED FLOW RATE l/h	DIMENSIONS mm A	B	C
RA5425625	CN 10 BIG SX TS	10”	25	250	120	28
RA5427625	CN 20 BIG SX TS	20”	50	508	120	28

CERTIFICATIONS:

P 10 BIG SX TS, P 10 BIG SX AB, P 10 BIG SX BW, P 20 BIG SX TS, P 20 BIG SX AB and P 20 BIG SX BW empty containers are certified by IAPMO R&T against NSF/ANSI Standards 42, 61, 372 and CSA B483.1 for material safety and lead free requirements.

CN BIG cartridges are tested and certified under the most stringent procedures worldwide, in compliance with the sanitary certification EAC/Ghostreghistrazia -Russia- (complete cartridge) and ACS -France- (only empty container).

P BIG SX

4.5” OD empty container for DP BIG housings

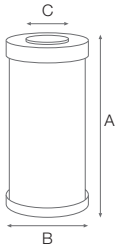
Plastic container fillable with water treatment media available from the range of Atlas Filtri media: granular activated carbon (GAC), polyphosphate crystals, ion-exchange resins, neutralizing and remineralizing calcite. For the use of other media contact Atlas Filtri for approval. P containers are available in 10” and 20” height.

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

COLDWATER

TECHNICAL SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Endcaps: Polypropylene.
Container: PET.
Flat seal: SEBS with antimicrobial technology
Grid: Polypropylene.
Net: polyester.



P BIG SX

PART NUMBER	MODEL (OD 4.50” x ID 1.10”)	NOMINAL HEIGHT	DIMENSIONS mm A	B	C
RB5175625	P 10 BIG SX TS	10”	250	120	28
RB5177625	P 20 BIG SX TS	20”	508	120	28

CERTIFICATIONS:

P 10 BIG SX TS, P 10 BIG SX AB, P 10 BIG SX BW, P 20 BIG SX TS, P 20 BIG SX AB and P 20 BIG SX BW empty containers are certified by IAPMO R&T against NSF/ANSI Standards 42, 61, 372 and CSA B483.1 for material safety and lead free requirements.

P BIG emtpy containers are tested and certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 -Italy-, EAC/Ghostreghistrazia -Russia- and ACS -France-

BIG**SEDIMENT** filter cartridges

A full range of water filter cartridges for sediment removal. Various models, different dimensions, selected materials guarantee a satisfying filtration experience.

RA BIG

stainless steel net

WASHABLE

COLDWATER

HOTWATER

nominal filtration
70 micron

SA BIG

pleated stainless steel net

WASHABLE

COLDWATER

HOTWATER

nominal filtration
50 micron

TS BIG

pleated polyester fabric

COLDWATER

nominal filtration
50 micron

CS BIG

pleated special paper

COLDWATER

nominal filtration
25 micron

RL BIG

polypropylene net

WASHABLE

COLDWATER

nominal filtration
50 and 100 micron

RLA BIG

stainless steel net

WASHABLE

COLDWATER

nominal filtration
70 micron

SAN!C® ANTIMICROBIAL

WITH BUILT-IN ANTIMICROBIAL PRODUCT PROTECTION

COLDWATER

FA BIG SANIC

polypropylene wound thread
with built-in antimicrobial product protection

nominal filtration da 1 a 100 micron

SAN!C® ANTIMICROBIAL

WITH BUILT-IN ANTIMICROBIAL PRODUCT PROTECTION

COLDWATER

CPP BIG SANIC

melt-blown polypropylene with built-in
antimicrobial product protection

nominal filtration da 1 a 25 micron

POWERED BY MICROBAN®

Treated with the active substance
silver phosphate glass
to prevent microbial growth
on the product surface

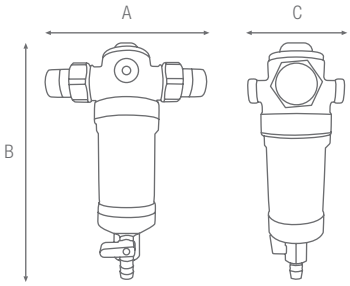
CLEANTEK

Manual and automatic self-cleaning filters

POINT OF ENTRY COLDWATER

MAX WORKING PRESSURE
16 bar (232 psi)
MIN WORKING PRESSURE
Mod. RT e DF: 2 bar (29 psi)
Mod. DRF: 1 bar (14 psi)

MAX WORKING TEMPERATURE
30°C (86°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



VERSIONS:

CLEANTEK RT. IN/OUT 1/2", 3/4", 1" brass BSPP
CLEANTEK DF. IN/OUT 3/4", 1", 1"1/4 brass BSPP
CLEANTEK DRF. IN/OUT 1"1/2, 2" brass BSPP

SPECIFICATIONS:

Selected raw materials, suitable for drinking water.
Head: brass CW617N / reinforced nylon.
Bowl: Grilamid
Cartridge filter element: Stainless steel AISI 316.
O-ring seal: asbestos-free fibre.
All parts made of synthetic material and elastomers are suitable for contact with water intended for human use and approved by the German Public Health Office (KTW).

DESCRIPTION

CLEANTEK self-cleaning filters have been designed and manufactured using innovative technical solutions regarding the efficiency of the filter cartridge cleaning system, by the means of backwashing. The filter has a nominal rating of 90 micron. When the filter element is clogged, the cleaning cycle is performed by simply opening the valve at the bottom of the bowl. The countercurrent flow of water brings with it particles and substances deposited on the cartridge and conveys them to the drain. During the cleaning cycle, the filter still guarantees filtered water (with reduced flow); when the valve is closed, the filter immediately returns to service in optimal operating conditions (maximum flow).

KIT AUTO for CLEANTEK

Device for automatic control of the time backwashing, ***suitable for self-cleaning filters of the CLEANTEK DF and CLEANTEK DRF series.***

The backwash interval can be set within a range of 1 hour and 52 weeks. The device is preset to 25 weeks and 5 days and conforms to European standard EN 806/2008 - part 5. The system operates on battery and is independent from power supply; however, it can be powered with a suitable transformer (optional).
The system is equipped with a controller of the residual power of the batteries.

TECHNICAL SPECIFICATIONS

Protection rating: IP21
Operating temperature: 10°C - 60°C
Battery: 4 x LR06
Max power: 2,5 W

Optional:
Power supply: 230 V / 50 Hz

KIT AUTO FOR CLEANTEK

PART NUMBER	MODEL
RE6180199	KIT AUTO FOR CLEANTEK

1 - REMOVE
the locking clip by pulling it downwards

2 - REMOVE
the washing knob

3 - INSTALL
the auto kit by keeping it in an upright position

4 - INSERT
the locking clip by pushing it upwards

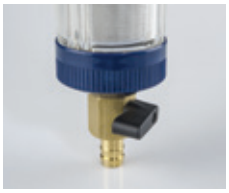
CLEANTEK RT

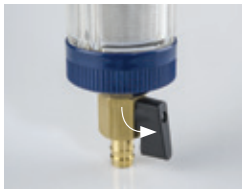
Extremely compact and advanced for effective filtration of potable water.

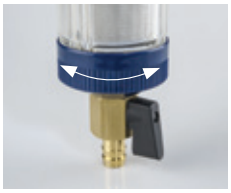
Eliminates sediments from the water and protects pipes and equipment from impurities and corrosion phenomena.
Cleaning is activated in a few steps; during the filter backwashing, continuous filtered water is dispensed!

SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	IN/OUT	NOMINAL FLOW RATE	MAXIMUM FLOW RATE	DIMENSIONS mm A	B	C
RE6180130	CLEANTEK RT 1/2" OT	1/2"	2,0 m³/h at 0,2 bar Δp	3,4 m³/h at 0,5 bar Δp	136	200	82
RE6180131	CLEANTEK RT 3/4" OT	3/4"	2,3 m³/h at 0,2 bar Δp	4,4 m³/h at 0,5 bar Δp	152	200	82
RE6180132	CLEANTEK RT 1" OT	1"	3,0 m³/h at 0,2 bar Δp	5,2 m³/h at 0,5 bar Δp	170	200	82







1 - CLOSED VALVE - Filter undergoing service
2 - OPEN THE VALVE to start the counter-current wash cycle
3 - TURN THE RING NUT to capture the impurities that clog the cartridge and convey them to the drain

CLEANTEK DF

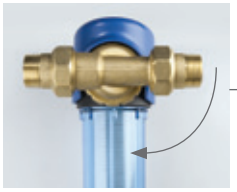
Improve the standards of filtration with innovative design and functions.

Adjustable attachments for easy installation - External knob for immediate backwashing - Cover with maintenance indicator - Built-in drainage system with anti-reflux system

All the filters are equipped with a special metal clip: simply remove it to install the Kit Auto and automate the cleaning operations, programming time and washing intervals. Kit Auto is powered by battery or current. An intelligent sensor detects the charge status and optimises its consumption.

SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	IN/OUT	NOMINAL FLOW RATE	MAXIMUM FLOW RATE	DIMENSIONS mm A	B	C
RE6180141	CLEANTEK DF 3/4" OT	3/4"	1,5 m³/h at 0,2 bar Δp	2,3 m³/h at 0,5 bar Δp	165	354	164
RE6180142	CLEANTEK DF 1" OT	1"	2,3 m³/h at 0,2 bar Δp	3,6 m³/h at 0,5 bar Δp	165	354	164
RE6180143	CLEANTEK DF 1"1/4 OT	1"1/4	3,8 m³/h at 0,2 bar Δp	6,3 m³/h at 0,5 bar Δp	165	354	164



Cover with maintenance indicator

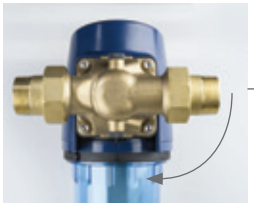
CLEANTEK DRF

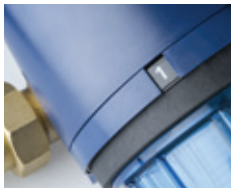
Maximise filtration performance!

- The water is continuously filtered even during cleaning operations.
- Easily automated by Kit Auto, allows you to manage backwash times and intervals and safely remove sediments through a built-in drain funnel
- Equipped with a special sensor, the automatic filter can work both with electric current and with battery, operating in an intelligent way to allow the washing cycle to function correctly.

SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	IN/OUT	NOMINAL FLOW RATE	MAXIMUM FLOW RATE	DIMENSIONS mm A	B	C
RE6180154	CLEANTEK DRF 1" 1/2 OT	1"1/2	9,0 m³/h at 0,2 bar Δp	9,2 m³/h at 0,5 bar Δp	240	490	250
RE6180155	CLEANTEK DRF 2" OT	2"	14,5 m³/h at 0,2 bar Δp	15,0 m³/h at 0,5 bar Δp	240	490	250





Cover with maintenance indicator

CERTIFICATIONS:

prodotto conforme a D.M. 25/2012

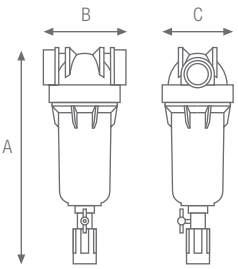
EAC

Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), and EAC/Ghostreghistrazia (Russia).

HYDRA

Self-cleaning filters with back-wash

The cleaning operations are simple and within reach for everyone: they can take place manually by opening the drain ball valve at the bottom of the filter, or automatically, thanks to the dedicated kit auto. Process efficiency is guaranteed by the drain system designed to block reflux of the ejected water.



POINT OF ENTRY | COLDWATER | HOTWATER

MAX WORKING PRESSURE
8 bar (116 psi)
10 bar (145 psi) for K DP models
MIN WORKING PRESSURE
1,8 bar (26 psi)

MAX WORKING TEMPERATURE
HYDRA 45°C (113°F)
HYDRA HOT 80°C (176°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL SPECIFICATIONS

HYDRA:
Selected raw materials, suitable for drinking water.
Head: reinforced polypropylene.
Bowl: PET.
O-ring: EPDM.
Breather-valve: body stainless steel, o-ring EPDM.
In/out brass threads: CW 617 N brass.
Discharge ball-valve: CW 614 N brass nickel plated.
Drain funnel: reinforced polypropylene.
Manometers (M models): radial type,
pressure range 0-12 bar, 0-170 psi.

HYDRA K DP:
Selected raw materials, suitable for drinking water.
Head: CB 753 S brass.
Bowl: PET.
O-ring: EPDM.
Breather-valve: CW 614 N brass.
Discharge ball-valve: CW 617 N brass nickel plated.
Drain funnel: reinforced polypropylene.
Manometers (M models): radial type,
pressure range 0-12 bar, 0-170 psi.

HYDRA HOT:
Head: reinforced nylon.
Bowl: reinforced nylon.
O-ring: EPDM.
Breather-valve: body stainless steel, o-ring EPDM.
Discharge ball-valve: CW 617 N brass nickel plated.
Drain funnel: reinforced polypropylene.

ACCESSORIES AVAILABLE:
3/4"/ 1" brass nipples with o-ring (pair), 3/4" plastic nipple with o-ring, 3/4"-1/4" plastic reduction with o-ring.

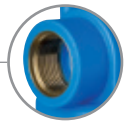
ACCESSORIES INCLUDED:
wall bracket screws.

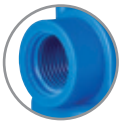

-X- spanner


-S- wall bracket
for HYDRA - HYDRA M -
HYDRA HOT models


-K DP- wall bracket
for HYDRA K DP model

THREADS TYPE


OT
BRASS BSPP


IN
PLASTIC BSPP

MODELS


HYDRA


HYDRA M


HYDRA HOT


HYDRA K DP

CARTRIDGES


RAH 90 mcr | RLH 90 mcr | RSH 50 mcr | RAH HOT 90 mcr

RAH stainless steel net cartridge
RLH plastic net cartridge
RSH pleated plastic net cartridge
RAH HOT stainless steel net cartridge
Stainless steel AISI 316-L cartridge spring

DRAIN FUNNEL
Back-flow
preventing device
UNI EN 1717-11/2002

CERTIFICATIONS:

Range of housings tested and certified by IAPMO R&T against NSF/ANSI 42 for material safety requirements and structural integrity only, 61, 372 lead free, CSA B483.1.

Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), with the sanitary certification ACS (France) and EAC/ Ghostreghistrazia (Russia).

HYDRA RLH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000010	HYDRA 1/2" RLH 90 mcr OT	90	1/2"	3500	390	120	107
RA6000011	HYDRA 3/4" RLH 90 mcr OT	90	3/4"	5000	390	120	107
RA6000012	HYDRA 1" RLH 90 mcr OT	90	1"	6000	390	120	107
RA6000022	HYDRA 1"1/4 RLH 90 mcr OT	90	1"1/4	8000	415	120	107

SINGLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000028	HYDRA 1/2" RLH 90 mcr IN	90	1/2"	3500	390	120	107
RA6000029	HYDRA 3/4" RLH 90 mcr IN	90	3/4"	5000	390	120	107
RA6000030	HYDRA 1" RLH 90 mcr IN	90	1"	6000	390	120	107

HYDRA RAH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000013	HYDRA 1/2" RAH 90 mcr OT	90	1/2"	3500	390	120	107
RA6000014	HYDRA 3/4" RAH 90 mcr OT	90	3/4"	5000	390	120	107
RA6000015	HYDRA 1" RAH 90 mcr OT	90	1"	6000	390	120	107
RA6000024	HYDRA 1"1/4 RAH 90 mcr OT	90	1"1/4	8000	415	120	107

SINGLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000035	HYDRA 1/2" RAH 90 mcr IN	90	1/2"	3500	390	120	107
RA6000036	HYDRA 3/4" RAH 90 mcr IN	90	3/4"	5000	390	120	107
RA6000037	HYDRA 1" RAH 90 mcr IN	90	1"	6000	390	120	107

HYDRA RSH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000019	HYDRA 1/2" RSH 50 mcr OT	50	1/2"	3500	390	120	107
RA6000020	HYDRA 3/4" RSH 50 mcr OT	50	3/4"	5000	390	120	107
RA6000021	HYDRA 1" RSH 50 mcr OT	50	1"	6000	390	120	107
RA6000026	HYDRA 1"1/4 RSH 50 mcr OT	50	1"1/4	8000	415	120	107

SINGLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000042	HYDRA 1/2" RSH 50 mcr IN	50	1/2"	3500	390	120	107
RA6000043	HYDRA 3/4" RSH 50 mcr IN	50	3/4"	5000	390	120	107
RA6000044	HYDRA 1" RSH 50 mcr IN	50	1"	6000	390	120	107

HYDRA M RLH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000110	HYDRA M 1/2" RLH 90 mcr OT	90	1/2"	3500	445	120	107
RA6000111	HYDRA M 3/4" RLH 90 mcr OT	90	3/4"	5000	445	120	107
RA6000112	HYDRA M 1" RLH 90 mcr OT	90	1"	6000	445	120	107
RA6000113	HYDRA M 1"1/4 RLH 90 mcr OT	90	1"1/4	8000	460	120	107

SINGLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000125	HYDRA M 1/2" RLH 90 mcr IN	90	1/2"	3500	445	120	107
RA6000126	HYDRA M 3/4" RLH 90 mcr IN	90	3/4"	5000	445	120	107
RA6000127	HYDRA M 1" RLH 90 mcr IN	90	1"	6000	445	120	107

HYDRA M RAH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000115	HYDRA M 1/2" RAH 90 mcr OT	90	1/2"	3500	445	120	107
RA6000116	HYDRA M 3/4" RAH 90 mcr OT	90	3/4"	5000	445	120	107
RA6000117	HYDRA M 1" RAH 90 mcr OT	90	1"	6000	445	120	107
RA6000118	HYDRA M 1"1/4 RAH 90 mcr OT	90	1"1/4	8000	460	120	107

SINGLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000134	HYDRA M 1/2" RAH 90 mcr IN	90	1/2"	3500	445	120	107
RA6000135	HYDRA M 3/4" RAH 90 mcr IN	90	3/4"	5000	445	120	107
RA6000136	HYDRA M 1" RAH 90 mcr IN	90	1"	6000	445	120	107

HYDRA M RSH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000120	HYDRA M 1/2" RSH 50 mcr OT	50	1/2"	3500	445	120	107
RA6000121	HYDRA M 3/4" RSH 50 mcr OT	50	3/4"	5000	445	120	107
RA6000122	HYDRA M 1" RSH 50 mcr OT	50	1"	6000	445	120	107
RA6000123	HYDRA M 1"1/4 RSH 50 mcr OT	50	1"1/4	8000	460	120	107

SINGLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000141	HYDRA M 1/2" RSH 50 mcr IN	50	1/2"	3500	445	120	107
RA6000142	HYDRA M 3/4" RSH 50 mcr IN	50	3/4"	5000	445	120	107
RA6000143	HYDRA M 1" RSH 50 mcr IN	50	1"	6000	445	120	107

HYDRA K DP RLH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000801	HYDRA K DP 3/4" RLH 90 mcr	90	3/4"	5000	430	120	107
RA6000802	HYDRA K DP 1" RLH 90 mcr	90	1"	6000	430	120	107

HYDRA K DP RAH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000803	HYDRA K DP 3/4" RAH 90 mcr	90	3/4"	5000	430	120	107
RA6000804	HYDRA K DP 1" RAH 90 mcr	90	1"	6000	430	120	107

HYDRA K DP RSH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000805	HYDRA K DP 3/4" RSH 50 mcr	50	3/4"	5000	430	120	107
RA6000806	HYDRA K DP 1" RSH 50 mcr	50	1"	6000	430	120	107

HYDRA K DP M RLH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000811	HYDRA K DP M 3/4" RLH 90 mcr	90	3/4"	5000	460	120	107
RA6000812	HYDRA K DP M 1" RLH 90 mcr	90	1"	6000	460	120	107

HYDRA K DP M RAH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000813	HYDRA K DP M 3/4" RAH 90 mcr	90	3/4"	5000	460	120	107
RA6000814	HYDRA K DP M 1" RAH 90 mcr	90	1"	6000	460	120	107

HYDRA K DP M RSH

SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000815	HYDRA K DP M 3/4" RSH 50 mcr	50	3/4"	5000	460	120	107
RA6000816	HYDRA K DP M 1" RSH 50 mcr	50	1"	6000	460	120	107

HYDRA HOT

SINGLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6000001	HYDRA HOT 1/2" RAH 90 mcr IN	90	1/2"	3500	390	120	107
RA6000002	HYDRA HOT 3/4" RAH 90 mcr IN	90	3/4"	5000	390	120	107
RA6000003	HYDRA HOT 1" RAH 90 mcr IN	90	1"	6000	390	120	107

A range of housings is certified by IAPMO R&T against NSF/ANSI Standards 42 - structural integrity only - and CSA B483.1 structural integrity only.

HYDRA DS

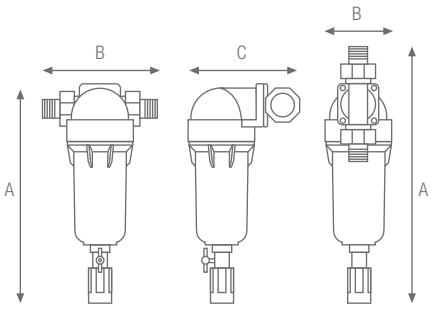
Self-cleaning filters with rotational connection group

POINT OF ENTRY

COLDWATER

MAX WORKING PRESSURE
8 bar (116 psi)
MIN WORKING PRESSURE
1,8 bar (26 psi)

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



VERSIONS:

- **MO** models with brass connections at 3/4" or 1"
- **MP** models with plastic connections at 3/4" and 1" (all together in the package)

TECHNICAL SPECIFICATIONS:

Selected raw materials, suitable for drinking water.
Head: reinforced polypropylene.
Bowl: PET.
O-ring: EPDM.
Breather-valve: body stainless steel, o-ring EPDM.
MP plastic rotational connection group: reinforced nylon.
MO brass rotational connection group: CW 614 N brass.
Rotational connection group gaskets: NBR.
Discharge ball-valve: CW 617 N brass nickel plated.
Drain funnel: reinforced polypropylene.

MODELS

HYDRA DS MP **HYDRA DS MO**

CARTRIDGES

RAH stainless steel net cartridge
RLH plastic net cartridge
RSH pleated plastic net cartridge
RAH HOT stainless steel net cartridge
Stainless steel AISI 316-L cartridge spring

ACCESSORY INCLUDED:

-X- spanner

CERTIFICATIONS:

prodotto conforme a D.M. 25/2012

EAC

Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy) and EAC/ Ghostreghistrazia (Russia).

DRAIN FUNNEL

Back-flow preventing device
UNI EN 1717-11/2002

HYDRA DS MP

SINGLE-STAGE SELF-CLEANIG FILTERS WITH PLASTIC ROTATIONAL GROUP

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C	D	E
RA6000601	HYDRA DS MP 3/4" - 1" RLH 90 mcr	90	3/4" - 1"	5000	428	170	168	479	107
RA6000602	HYDRA DS MP 3/4" - 1" RAH 90 mcr	90	3/4" - 1"	5000	428	170	168	479	107
RA6000603	HYDRA DS MP 3/4" - 1" RSH 50 mcr	50	3/4" - 1"	5000	428	170	168	479	107

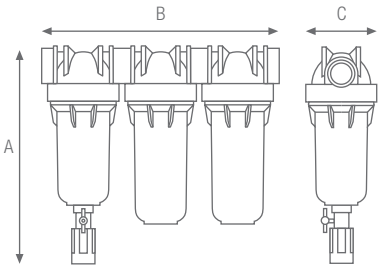
HYDRA DS MO

SINGLE-STAGE SELF-CLEANIG FILTERS WITH BRASS ROTATIONAL GROUP

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C	D	E
RA6000604	HYDRA DS MO 3/4" RLH 90 mcr	90	3/4"	4000	428	170	168	479	107
RA6000605	HYDRA DS MO 1" RLH 90 mcr	90	1"	5000	428	170	168	479	107
RA6000606	HYDRA DS MO 3/4" RAH 90 mcr	90	3/4"	4000	428	170	168	479	107
RA6000607	HYDRA DS MO 1" RAH 90 mcr	90	1"	5000	428	170	168	479	107
RA6000608	HYDRA DS MO 3/4" RSH 50 mcr	50	3/4"	4000	428	170	168	479	107
RA6000609	HYDRA DS MO 1" RSH 50 mcr	50	1"	5000	428	170	168	479	107

HYDRA DUO e TRIO

Multi-stage self-cleaning filters



Treatment units HYDRA DUO and TRIO are designed for the filtration and treatment of water in several stages (Hydra DUO - two stages, Hydra TRIO - three stages).
The first stage consists of a HYDRA, type self-cleaning filter designed with innovative solutions for cartridge self-cleaning system efficiency, thanks to the backwash that ensures a high level of particle removal from the cartridge.
The second and third stage can house all the cartridges of the SX series;
the filtration and/or treatment sequence can therefore be customised according to specific needs.

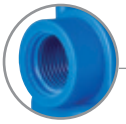
MAX WORKING PRESSURE
8 bar (116 psi)
MIN WORKING PRESSURE
1,8 bar (26 psi)

POINT OF ENTRY

COLDWATER

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

OT
BRASS BSPP



IN
PLASTIC BSPP

THREADS TYPE

MODELS

HYDRA DUO

HYDRA TRIO

CARTRIDGES

RAH stainless steel net cartridge
RLH plastic net cartridge
RSH pleated plastic net cartridge
RAH HOT stainless steel net cartridge
Stainless steel AISI 316-L cartridge spring

DRAIN FUNNEL
Back-flow
preventing device
UNI EN 1717-11/2002

TECHNICAL SPECIFICATIONS:

Selected raw materials, suitable for drinking water.
Head: reinforced polypropylene.
Bowl: PET.
O-rings: EPDM.
Breather-valve: body stainless steel, o-ring EPDM.
In/out brass threads: CW 617 N brass.
Discharge ball-valve: CW 614 N brass nickel plated.
Drain funnel: reinforced polypropylene.

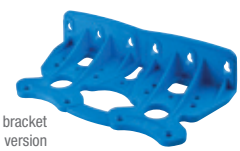
ACCESSORIES AVAILABLE:

3/4"/ 1" brass nipples with o-ring (pair), 3/4" plastic nipple with o-ring.

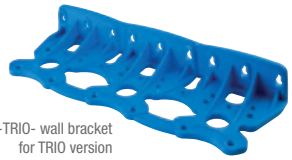
ACCESSORIES INCLUDED:

Wall bracket screws, Filterfit

-X- spanner



-DUO- wall bracket
for DUO version



-TRIO- wall bracket
for TRIO version

CERTIFICATIONS:

prodotto conforme a D.M. 25/2012

Attestation de Conformité Sanitaire ACS

EAC

Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), ACS (France) and EAC/ Ghostreghistrazia (Russia).

HYDRA DUO RLH

MULTISTAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6096143	HYDRA DUO RLH 1/2" OT	90	1/2"	390	228	107
RA6096153	HYDRA DUO RLH 3/4" OT	90	3/4"	390	228	107
RA6096163	HYDRA DUO RLH 1" OT	90	1"	390	228	107

MULTISTAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6096142	HYDRA DUO RLH 1/2" IN	90	1/2"	390	228	107
RA6096152	HYDRA DUO RLH 3/4" IN	90	3/4"	390	228	107
RA6096162	HYDRA DUO RLH 1" IN	90	1"	390	228	107

HYDRA DUO RAH

MULTISTAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6096213	HYDRA DUO RAH 1/2" OT	90	1/2"	390	228	107
RA6096223	HYDRA DUO RAH 3/4" OT	90	3/4"	390	228	107
RA6096233	HYDRA DUO RAH 1" OT	90	1"	390	228	107

MULTISTAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6096212	HYDRA DUO RAH 1/2" IN	90	1/2"	390	228	107
RA6096222	HYDRA DUO RAH 3/4" IN	90	3/4"	390	228	107
RA6096232	HYDRA DUO RAH 1" IN	90	1"	390	228	107

HYDRA DUO RSH

MULTISTAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6096171	HYDRA DUO RSH 1/2" OT	50	1/2"	390	228	107
RA6096172	HYDRA DUO RSH 3/4" OT	50	3/4"	390	228	107
RA6096173	HYDRA DUO RSH 1" OT	50	1"	390	228	107

MULTISTAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6096175	HYDRA DUO RSH 1/2" IN	50	1/2"	390	228	107
RA6096182	HYDRA DUO RSH 3/4" IN	50	3/4"	390	228	107
RA6096192	HYDRA DUO RSH 1" IN	50	1"	390	228	107

HYDRA TRIO RLH

MULTISTAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6095143	HYDRA TRIO RLH 1/2" OT	90	1/2"	390	336	107
RA6095153	HYDRA TRIO RLH 3/4" OT	90	3/4"	390	336	107
RA6095163	HYDRA TRIO RLH 1" OT	90	1"	390	336	107

MULTISTAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6095142	HYDRA TRIO RLH 1/2" IN	90	1/2"	390	336	107
RA6095152	HYDRA TRIO RLH 3/4" IN	90	3/4"	390	336	107
RA6095162	HYDRA TRIO RLH 1" IN	90	1"	390	336	107

HYDRA TRIO RAH

MULTISTAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6095113	HYDRA TRIO RAH 1/2" OT	90	1/2"	390	336	107
RA6095223	HYDRA TRIO RAH 3/4" OT	90	3/4"	390	336	107
RA6095233	HYDRA TRIO RAH 1" OT	90	1"	390	336	107

MULTISTAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6095112	HYDRA TRIO RAH 1/2" IN	90	1/2"	390	336	107
RA6095222	HYDRA TRIO RAH 3/4" IN	90	3/4"	390	336	107
RA6095232	HYDRA TRIO RAH 1" IN	90	1"	390	336	107

HYDRA TRIO RSH

MULTISTAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6095173	HYDRA TRIO RSH 1/2" OT	50	1/2"	390	336	107
RA6095183	HYDRA TRIO RSH 3/4" OT	50	3/4"	390	336	107
RA6095193	HYDRA TRIO RSH 1" OT	50	1"	390	336	107

MULTISTAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6095172	HYDRA TRIO RSH 1/2" IN	50	1/2"	390	336	107
RA6095182	HYDRA TRIO RSH 3/4" IN	50	3/4"	390	336	107
RA6095192	HYDRA TRIO RSH 1" IN	50	1"	390	336	107

NEWPRODUCT

K-MATIC

Compact and smart Automatic Drain Valve

Automatic Drain Valve with timer designed for Atlas Filtri Hydra series: a clean cartridge after every automatic wash.

K-Matic features a programmable timer that cyclically operates the solenoid valve in two modes:

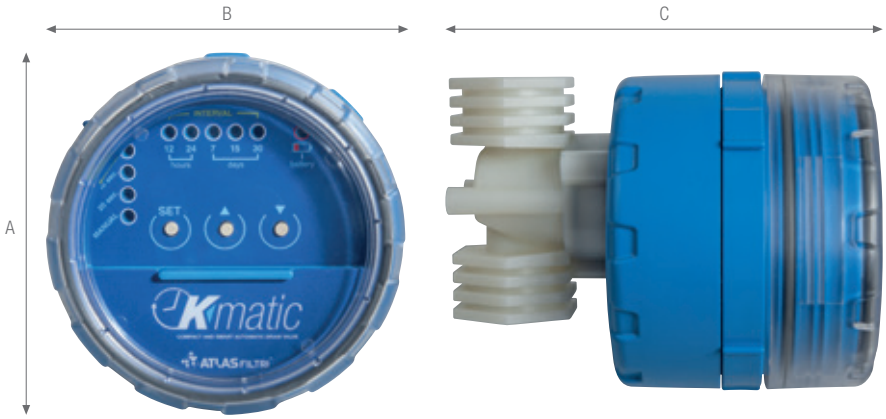
• Manual

• Automatic, at each set time interval and for the set opening duration. In automatic mode, the interval between two valve openings and their duration are programmable according to the following options: Interval 12h-24h | 7-15-30 days | Duration: 10"or 20". Each valve opening is followed by a second opening with a fixed duration of 3".

POINT OF ENTRY COLDWATER

MAX WORKING PRESSURE
8,3 bar (120 psi)
MIN WORKING PRESSURE
1,8 bar (26 psi)

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)



BENEFITS

- Easy-to-install.
- Compact design.
- User-friendly led display interface.
- IP54 water and dust resistant.
- 9V battery (not included): no electrical connection needed.
- Safety stop: drain shut-off in case of flat battery.
- Manual wash function in case of excessive dirt.
- Suitable for all water filters with 1/2" drain.

SPECIFICATIONS:

Selected raw materials, suitable for drinking water.

- Timer body: ABS
- Valve: PA66
- ½" BSPP F IN/OUT connections

ACCESSORIES INCLUDED:

Swivel fitting kit

COMPATIBLE MODELS

-HYDRA-
-PLUS S 3P BX-
-PLUS S 3P CX-
-DP S-
-DP S DS-
-K DP S-
-DP BIG S-

K-MATIC

PART NUMBER	MODEL	IN/OUT	DIMENSIONS mm A	B	C
RA7120050	K-MATIC	1/2"	80	80	106

CERTIFICATIONS:

prodotto conforme a D.M. 25/2012

EAC

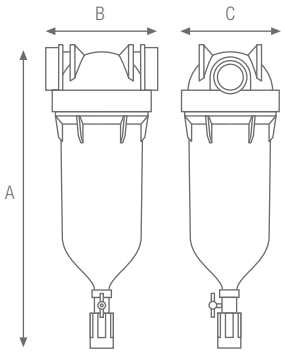
Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy) and EAC/ Ghostreghistrazia (Russia).

CE UK CA

HYDRA BIG

Self-cleaning filters with back-wash

The self-cleaning filter HYDRA BIG is the union of strength, reliability and elegance of a purely Italian style with the highest performance and excellent quality of materials. All this to ensure maximum protection of your system, even at very high flow rates.
Cleaning operations are quick and easy: simply open the valve at the bottom of the filter to create a reversal of the water flow. In this way all the impurities are dragged and expelled from the filter. The efficiency of this process is guaranteed by the discharge system designed to block the reflux of the expelled water.



POINT OF ENTRY

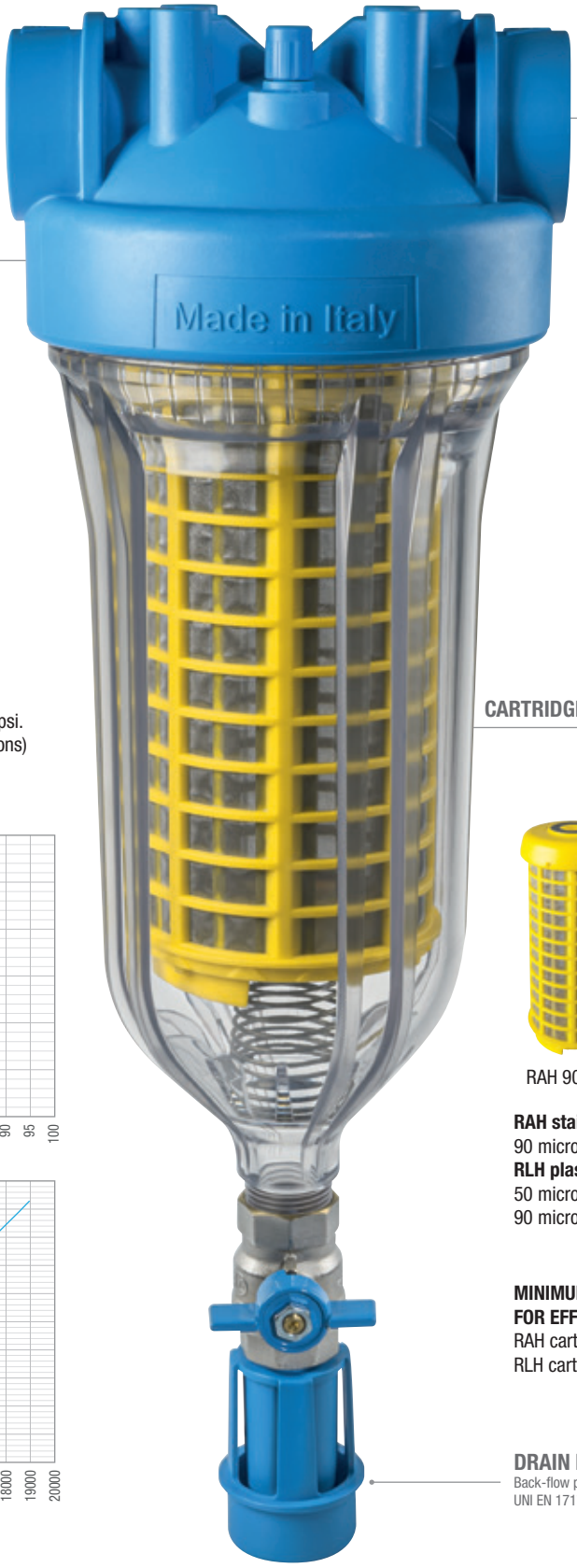
COLDWATER

MAX WORKING PRESSURE
8,3 bar (120 psi)
MIN WORKING PRESSURE
1,8 bar (26 psi)

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39.2°F)

HYDRA BIG **HYDRA BIG M**

MODELS



THREADS TYPE

IN
PLASTIC BSPP

NPT IN
PLASTIC NPT

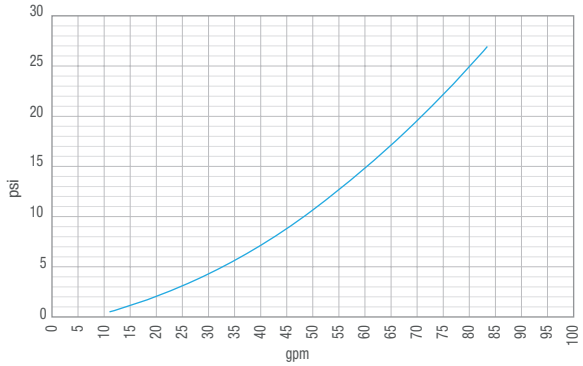
OT
BRASS BSPP

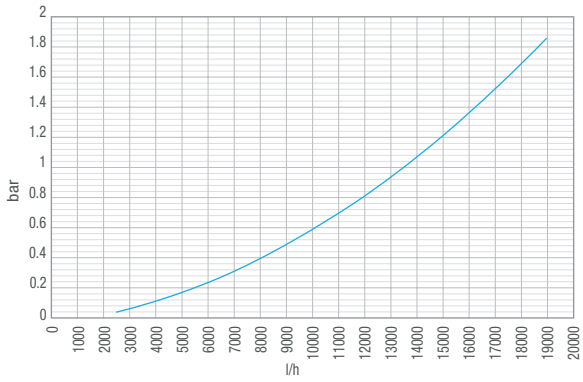
NTP OT
BRASS NPT
Lead Free

TECHNICAL SPECIFICATIONS

Selected raw materials, suitable for drinking water.
Head: reinforced polypropylene.
Bowl: PET.
O-ring: silicone.
Breather-valve: body polypropylene, o-ring EPDM.
In/out brass threads (1" models):
CW617N brass (BSPP) - CW511L "Lead Free" (NPT).
Discharge ball-valve:
CW617N brass nickel plated (BSPP versions);
CW511L "Lead Free" brass nickel plated (NPT versions).
Drain funnel: reinforced polypropylene.
Gauges (M models): radial type, pressure range 0-12 bar, 0-170 psi.
CW617N brass (BSPP versions); CW511L "Lead Free" (NPT versions)

FLOW RATE vs PRESSURE DROP





CARTRIDGES

RAH 90 mcr RLH 50/90 mcr

RAH stainless steel net cartridge
90 micron - CODE RA5001020
RLH plastic net cartridge
50 micron - CODE RA5001005
90 micron - CODE RA5001010

MINIMUM FLOW RATE
FOR EFFECTIVE BACKWASHING:
RAH cartridges = 2000 l/h
RLH cartridges = 2400 l/h

DRAIN FUNNEL
Back-flow preventing device
UNI EN 1717-11/2002

NEW HYDRA BIG

SINGLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm A	B	C
RA6310000	HYDRA BIG 1" RLH 50 mcr IN	50	1"	6000	26	500	190	185
RA6310003	HYDRA BIG 1"1/2 RLH 50mcr IN	50	1"1/2	15000	66	500	190	185
RA6310010	HYDRA BIG 1" RLH 90 mcr IN	90	1"	6000	26	500	190	185
RA6310013	HYDRA BIG 1"1/2 RLH 90mcr IN	90	1"1/2	15000	66	500	190	185
RA6310030	HYDRA BIG 1" RAH 90 mcr IN	90	1"	6000	26	500	190	185
RA6310033	HYDRA BIG 1"1/2 RAH 90 mcr IN	90	1"1/2	15000	66	500	190	185

HOUSINGS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm A	B	C
RA6312000	HYDRA BIG 1" RLH 50 mcr OT	50	1"	6000	26	500	190	185
RA6312010	HYDRA BIG 1" RLH 90 mcr OT	90	1"	6000	26	500	190	185
RA6312030	HYDRA BIG 1" RAH 90 mcr OT	90	1"	6000	26	500	190	185

NEW HYDRA BIG M

SINGLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm A	B	C
RA6310300	HYDRA BIG M 1" RLH 50 mcr IN	50	1"	6000	26	570	190	185
RA6310303	HYDRA BIG M 1"1/2 RLH 50 mcr IN	50	1"1/2	15000	66	570	190	185
RA6310310	HYDRA BIG M 1" RLH 90 mcr IN	90	1"	6000	26	570	190	185
RA6310313	HYDRA BIG M 1"1/2 RLH 90 mcr IN	90	1"1/2	15000	66	570	190	185
RA6310330	HYDRA BIG M 1" RAH 90 mcr IN	90	1"	6000	26	570	190	185
RA6310333	HYDRA BIG M 1"1/2 RAH 90 mcr IN	90	1"1/2	15000	66	570	190	185

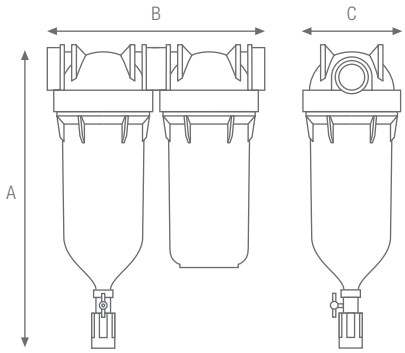
SINGLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS - with 2 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	MAX FLOW RATE l/h	MAX FLOW RATE gpm	DIMENSIONS mm A	B	C
RA6312300	HYDRA BIG M 1" RLH 50 mcr OT	50	1"	6000	26	570	190	185
RA6312310	HYDRA BIG M 1" RLH 90 mcr OT	90	1"	6000	26	570	190	185
RA6312330	HYDRA BIG M 1" RAH 90 mcr OT	90	1"	6000	26	570	190	185

HYDRA BIG DUO | TRIO

Multi-stage self-cleaning filters with back-wash

HYDRA BIG DUO doubles its effectiveness thanks to the second stage after the self-cleaning pre-filter, which allows us to choose the most suitable cartridge from a wide range of BIG cartridges at our disposal.
Finally, with HYDRA BIG TRIO we close the circle of the HYDRA BIG range: two stages after the self-cleaning prefilter to be dedicated to the improvement of our water.



POINT OF ENTRY

COLDWATER

MAX WORKING PRESSURE
8,3 bar (120 psi)
MIN WORKING PRESSURE
1,8 bar (26 psi)

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39.2°F)

DRAIN FUNNEL
Back-flow preventing device
UNI EN 1717-11/2002

MODELS

HYDRA BIG DUO

HYDRA BIG M DUO
with 3 gauges

HYDRA BIG TRIO

HYDRA BIG M TRIO
with 4 gauges

For TECHNICAL SPECIFICATIONS - THREADS TYPE - CARTRIDGES SPECIFICATIONS page 107

NEW HYDRA BIG DUO

DOUBLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6320000	HYDRA BIG DUO 1" RLH 50 mcr IN	50	1"	515	390	185
RA6320003	HYDRA BIG DUO 1"1/2 RLH 50 mcr IN	50	1"1/2	515	390	185
RA6320010	HYDRA BIG DUO 1" RLH 90 mcr IN	90	1"	515	390	185
RA6320013	HYDRA BIG DUO 1"1/2 RLH 90 mcr IN	90	1"1/2	515	390	185
RA6320030	HYDRA BIG DUO 1" RAH 90 mcr IN	90	1"	515	390	185
RA6320033	HYDRA BIG DUO 1"1/2 RAH 90 mcr IN	90	1"1/2	515	390	185

DOUBLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6322000	HYDRA BIG DUO 1" RLH 50 mcr OT	50	1"	515	390	185
RA6322010	HYDRA BIG DUO 1" RLH 90 mcr OT	90	1"	515	390	185
RA6322030	HYDRA BIG DUO 1" RAH 90 mcr OT	90	1"	515	390	185

NEW HYDRA BIG M DUO

DOUBLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS - with 3 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6320300	HYDRA BIG M DUO 1" RLH 50 mcr IN	50	1"	585	390	185
RA6320303	HYDRA BIG M DUO 1"1/2 RLH 50mcr IN	50	1"1/2	585	390	185
RA6320310	HYDRA BIG M DUO 1" RLH 90 mcr IN	90	1"	585	390	185
RA6320313	HYDRA BIG M DUO 1"1/2 RLH 90mcr IN	90	1"1/2	585	390	185
RA6320330	HYDRA BIG M DUO 1" RAH 90 mcr IN	90	1"	585	390	185
RA6320333	HYDRA BIG M DUO 1"1/2 RAH 90 mcr IN	90	1"1/2	585	390	185

DOUBLE-STAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS - with 3 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6322300	HYDRA BIG M DUO 1" RLH 50 mcr OT	50	1"	585	390	185
RA6322310	HYDRA BIG M DUO 1" RLH 90 mcr OT	90	1"	585	390	185
RA6322330	HYDRA BIG M DUO 1" RAH 90 mcr OT	90	1"	585	390	185

NEW HYDRA BIG TRIO

TRIPLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6330000	HYDRA BIG TRIO 1" RLH 50 mcr IN	50	1"	515	590	185
RA6330003	HYDRA BIG TRIO 1"1/2 RLH 50mcr IN	50	1"1/2	515	590	185
RA6330010	HYDRA BIG TRIO 1" RLH 90 mcr IN	90	1"	515	590	185
RA6330013	HYDRA BIG TRIO 1"1/2 RLH 90 mcr IN	90	1"1/2	515	590	185
RA6330030	HYDRA BIG TRIO 1" RAH 90 mcr IN	90	1"	515	590	185
RA6330033	HYDRA BIG TRIO 1"1/2 RAH 90 mcr IN	90	1"1/2	515	590	185

HOUSINGS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6332000	HYDRA BIG TRIO 1" RLH 50 mcr OT	50	1"	515	590	185
RA6332010	HYDRA BIG TRIO 1" RLH 90 mcr OT	90	1"	515	590	185
RA6332030	HYDRA BIG TRIO 1" RAH 90 mcr OT	90	1"	515	590	185

NEW HYDRA BIG M TRIO

TRIPLE-STAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS - with 4 manometers

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6330300	HYDRA BIG M TRIO 1" RLH 50 mcr IN	50	1"	585	590	185
RA6330303	HYDRA BIG M TRIO 1"1/2 RLH 50 mcr IN	50	1"1/2	585	590	185
RA6330310	HYDRA BIG M TRIO 1" RLH 90 mcr IN	90	1"	585	590	185
RA6330313	HYDRA BIG M TRIO 1"1/2 RLH 90 mcr IN	90	1"1/2	585	590	185
RA6330330	HYDRA BIG M TRIO 1" RAH 90 mcr IN	90	1"	585	590	185
RA6330333	HYDRA BIG M TRIO 1"1/2 RAH 90 mcr IN	90	1"1/2	585	590	185

HOUSINGS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	NOMINAL FILTRATION mcr	IN/OUT	DIMENSIONS mm A	B	C
RA6332300	HYDRA BIG M TRIO 1" RLH 50 mcr OT	50	1"	585	590	185
RA6332310	HYDRA BIG M TRIO 1" RLH 90 mcr OT	90	1"	585	590	185
RA6332330	HYDRA BIG M TRIO 1" RAH 90 mcr OT	90	1"	585	590	185

KIT AUTO

Automatic valve for HYDRA BIG self-cleaning filters series

KIT AUTO is a product that makes it possible to automate the cleaning procedures of the HYDRA BIG self-cleaning filters series. The kit consists of a digital control panel, a solenoid valve, a coil and a cable with power plug and can be associated with all filters equipped with 1" drain making maintenance operations fully automatic.
The KIT AUTO digital control panel is easy to configure and allows the cyclic operation of the solenoid valve to be programmed in two modes:
• Manual
• Automatic, at each set time interval and for the set opening duration.
In automatic mode, the interval between two valve openings and the duration of each individual opening are programmable with the following options: Interval: 1÷255 hours - Duration:1÷255 seconds.

POINT OF ENTRY

COLDWATER

MAX WORKING PRESSURE:
10 bar (145 psi)

MAX WORKING TEMPERATURE:
45°C (113°F)
MIN WORKING TEMPERATURE:
4°C (39,2°F)

COMPATIBLE MODELS

-HYDRA BIG-

COMPONENTS

- Digital control panel
- 1" solenoid valve
- Coil

TECHNICAL SPECIFICATIONS OF THE DIGITAL CONTROL PANEL

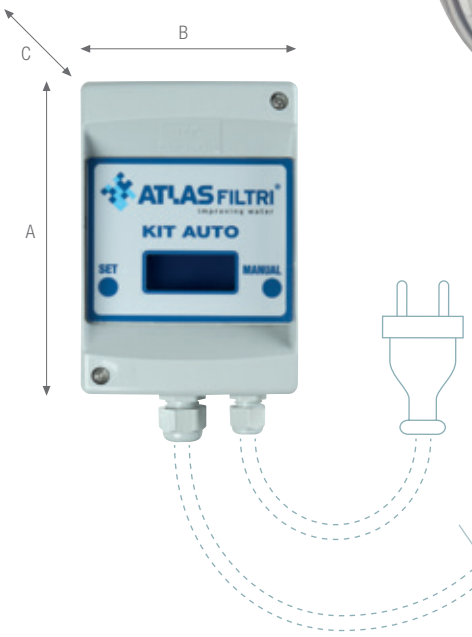
Power supply AC 50/60 Hz 230 V
Plug: CEE 7/4 (Shuko)
Power cable length: 1.25 m
Coil power cable length: 0.85 m

SOLENOID VALVE TECHNICAL SPECIFICATIONS:

Body: brass CW 614 N
Membrane: EPDM

COIL TECHNICAL SPECIFICATIONS

AC 50/60 Hz 24V power supply
Insulation class: F
Protection class with connector mounted: IP65



KIT AUTO

AUTOMATIC VALVE for HYDRA BIG

PART NUMBER	MODEL	IN/OUT	DIMENSIONS mm A	B	C
RA7120060	KIT AUTO	1"	128	90	84

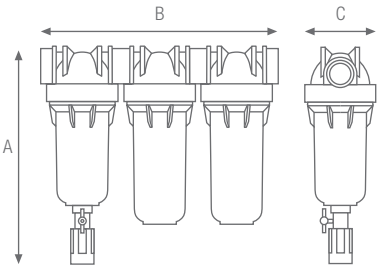
CERTIFICATIONS:

prodotto conforme a D.M. 25/2012

Product is tested and certified under the most stringent procedures worldwide, in compliance with the sanitary certifications DM25 -Italy- and EAC/Ghostreghistrazia -Russia-

HYDRA RAINMASTER

Range of multi-stage self-cleaning filters especially designed for the filtration and treatment of rainwater, well water, mains water, HO.RE.CA. equipment, and more applications.



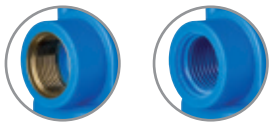
MAX WORKING PRESSURE
8 bar (116 psi)
MIN WORKING PRESSURE
1,8 bar (26 psi)

POINT OF ENTRY

COLDWATER

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

THREADS TYPE



OT
BRASS BSPP

IN
PLASTIC BSPP

MODELS

HYDRA RAINMASTER DUO

HYDRA RAINMASTER TRIO

DRAIN FUNNEL
Back-flow
preventing device
UNI EN 1717-11/2002

SELF-CLEANING CARTRIDGES

RAH stainless steel net cartridge
RLH plastic net cartridge
RSH pleated plastic net cartridge
Stainless steel AISI 316-L cartridge spring.

CARTRIDGES (2nd and/or 3rd stage)

FA SX **CB EC SX** **LA SX**

TECHNICAL SPECIFICATIONS:

Selected raw materials, suitable for drinking water.
Head: reinforced polypropylene.
Bowl: PET.
O-rings: EPDM.
Breather-valve: body stainless steel, o-ring EPDM.
In/out brass threads: CW 617 N brass.
Discharge ball-valve: CW 614 N brass nickel plated.
Drain funnel: reinforced polypropylene.

ACCESSORIES AVAILABLE:

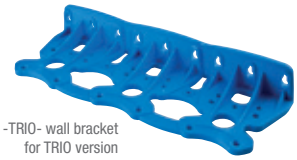
3/4"/ 1" brass nipples with o-ring (pair), 3/4" plastic nipple with o-ring.

ACCESSORIES INCLUDED:

Wall bracket screws, Filterfit

-X- spanner

-DUO- wall bracket
for DUO version



-TRIO- wall bracket
for TRIO version

CERTIFICATIONS:

prodotto conforme a D.M. 25/2012

Attestation de Conformité Sanitaire ACS

EAC

Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), ACS (France) and EAC/ Ghostreghistrazia (Russia).

HYDRA RAINMASTER DUO RAH with carbon block cartridge

MULTISTAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	POST CARTRIDGE NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6096114	HYDRA RAINMASTER DUO RAH CB/EC 1/2" OT	90	10	1/2"	3500	390	228	107
RA6096124	HYDRA RAINMASTER DUO RAH CB/EC 3/4" OT	90	10	3/4"	5000	390	228	107
RA6096134	HYDRA RAINMASTER DUO RAH CB/EC 1" OT	90	10	1"	5700	390	228	107

MULTISTAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	POST CARTRIDGE NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6096115	HYDRA RAINMASTER DUO RAH CB/EC 1/2" IN	90	10	1/2"	3500	390	228	107
RA6096125	HYDRA RAINMASTER DUO RAH CB/EC 3/4" IN	90	10	3/4"	5000	390	228	107
RA6096135	HYDRA RAINMASTER DUO RAH CB/EC 1" IN	90	10	1"	5700	390	228	107

HYDRA RAINMASTER DUO RAH with GAC cartridge

MULTISTAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	POST CARTRIDGE NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6096214	HYDRA RAINMASTER DUO RAH LA 1/2" OT	90	-	1/2"	1900	390	228	107
RA6096224	HYDRA RAINMASTER DUO RAH LA 3/4" OT	90	-	3/4"	2600	390	228	107
RA6096234	HYDRA RAINMASTER DUO RAH LA 1" OT	90	-	1"	2900	390	228	107

MULTISTAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	POST CARTRIDGE NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6096215	HYDRA RAINMASTER DUO RAH LA 1/2" IN	90	-	1/2"	1900	390	228	107
RA6096225	HYDRA RAINMASTER DUO RAH LA 3/4" IN	90	-	3/4"	2600	390	228	107
RA6096230	HYDRA RAINMASTER DUO RAH LA 1" IN	90	-	1"	2900	390	228	107

HYDRA RAINMASTER TRIO RAH with carbon block cartridge

MULTISTAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	SEDIMENT NOMINAL FILTRATION mcr	POST CARTRIDGE NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6095114	HYDRA RAINMASTER TRIO RAH CB/EC 1/2" OT	90	25	10	1/2"	3500	390	336	107
RA6095124	HYDRA RAINMASTER TRIO RAH CB/EC 3/4" OT	90	25	10	3/4"	4800	390	336	107
RA6095134	HYDRA RAINMASTER TRIO RAH CB/EC 1" OT	90	25	10	1"	5500	390	336	107

MULTISTAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	SEDIMENT NOMINAL FILTRATION mcr	POST CARTRIDGE NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6095115	HYDRA RAINMASTER TRIO RAH CB/EC 1/2" IN	90	25	10	1/2"	3500	390	336	107
RA6095120	HYDRA RAINMASTER TRIO RAH CB/EC 3/4" IN	90	25	10	3/4"	4800	390	336	107
RA6095135	HYDRA RAINMASTER TRIO RAH CB/EC 1" IN	90	25	10	1"	5500	390	336	107

HYDRA RAINMASTER TRIO RAH with GAC cartridge

MULTISTAGE SELF-CLEANING FILTERS WITH BRASS BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	SEDIMENT NOMINAL FILTRATION mcr	POST CARTRIDGE NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6095214	HYDRA RAINMASTER TRIO RAH LA 1/2" OT	90	25	-	1/2"	1800	390	336	107
RA6095224	HYDRA RAINMASTER TRIO RAH LA 3/4" OT	90	25	-	3/4"	2500	390	336	107
RA6095234	HYDRA RAINMASTER TRIO RAH LA 1" OT	90	25	-	1"	2800	390	336	107

MULTISTAGE SELF-CLEANING FILTERS WITH PLASTIC BSPP THREADS

PART NUMBER	MODEL	SELF-CLEANING NOMINAL FILTRATION mcr	SEDIMENT NOMINAL FILTRATION mcr	POST CARTRIDGE NOMINAL FILTRATION mcr	IN/OUT	FLOW RATE l/h	DIMENSIONS mm A	B	C
RA6095215	HYDRA RAINMASTER TRIO RAH LA 1/2" IN	90	25	-	1/2"	1800	390	336	107
RA6095225	HYDRA RAINMASTER TRIO RAH LA 3/4" IN	90	25	-	3/4"	2500	390	336	107
RA6095235	HYDRA RAINMASTER TRIO RAH LA 1" IN	90	25	-	1"	2800	390	336	107

PLUS HOUSINGS

For SX-BX-CX filter cartridges series

POINT OF ENTRY

COLDWATER

MAX WORKING PRESSURE
8 bar (116 psi)

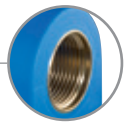
MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

HEIGHTS:
- 3P heights 5”, 7”, 10”, 20”.
- 2P heights 4”, 7”, 10”.

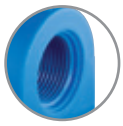
CARTRIDGE TYPE:
SX - BX - CX

TECHNICAL SPECIFICATIONS:
Selected raw materials, suitable for drinking water.
Head and ring nut: reinforced polypropylene.
PLUS 3P bowl: PET.
PLUS 2P bowl: SAN (clear)
reinforced polypropylene (opaque)
O-ring: EPDM.
Breather-valve: body polypropylene, o-ring EPDM.
In/out brass threads: CW 617 N brass.
M Series:
Manometers radial type, pressure range 0-12 bar, 0-170 psi.
S Series:
Discharge ball-valve: CW 617 N brass nickel plated.
Discharge plastic nipple: reinforced polypropylene.
Drain funnel: reinforced polypropylene.

THREADS TYPE



FO
BRASS BSPP



FP
PLASTIC BSPP

MODELS

SINGLE

DUPLEX

TRIPLEX

BOWL TYPE

CLEAR

OPAQUE

VERSIONS

-3P-
3 pieces

-2P-
2 pieces

-M-
with manometers

-S-
with discharge

-SM-
with manometers and discharge

ACCESSORIES AVAILABLE:
wall bracket screws, 3/4” brass nipples with o-ring (pair), 3/4” plastic nipple with o-ring, 3/4”-1/4” plastic reduction with o-ring, diffuser tubes 4”, 5”, 7”, 10”

-N- spanner

-S- wall bracket for single model

-D- wall bracket for DUPLEX model

-T- wall bracket for TRIPLEX model

CERTIFICATIONS:

A range of housings is certified by IAPMO R&T against NSF/ANSI 42 for material safety requirements and structural integrity only, 61, 372 lead free, CSA B483.1.

prodotto conforme a D.M. 25/2012

Attestation de Conformité Sanitaire ACS

EAC

Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), ACS (France) and EAC/ Ghostreghistrazia (Russia).

DP HOUSINGS

For SX-BX-CX filter cartridges series

Housings DP fit to both standard SX (DOE) cartridges and to exclusive BX cartridges.
The full range of Atlas Filtri® SX, BX and CX cartridges is suitable to DP housing and provide the widest range of water filtration and treatment units.

MAX WORKING PRESSURE
8 bar (116 psi)

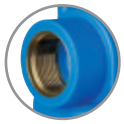
POINT OF ENTRY

COLDWATER

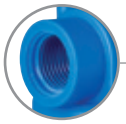
MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

MONO

THREADS TYPE



OT
BRASS BSPP



IN
PLASTIC BSPP

MODELS

DUO

TRIO

HEIGHTS:
5”, 7”, 10”, 20”.

CARTRIDGE TYPE:
SX - BX - CX

TECHNICAL SPECIFICATIONS:
Selected raw materials, suitable for drinking water.
Head: reinforced polypropylene.
Bowl: PET.
O-ring: EPDM.
Breather-valve: body stainless steel, o-ring EPDM.
In/out brass threads: CW 617 N brass.
M Series:
Manometers radial type, pressure range 0-12 bar, 0-170 psi.
S Series:
Discharge ball-valve: CW 617 N brass nickel plated.
Discharge plastic nipple: reinforced polypropylene.
Drain funnel: reinforced polypropylene.

VERSIONS

DP

-DP M-
with manometers

-DP S-
with discharge

-DP SM-
with manometers and discharge

BOWL TYPE

CLEAR **BLUE** **WHITE**

ACCESSORIES AVAILABLE:
wall bracket screws, 3/4” brass nipples with o-ring (pair) ,3/4” plastic nipple with o-ring, 3/4”-1/4” plastic reduction with o-ring, base (10” models), LubriKit+

-X- spanner

-S- wall bracket for single model

-DUO- wall bracket for DUO model

-TRIO- wall bracket for TRIO model

CERTIFICATIONS:

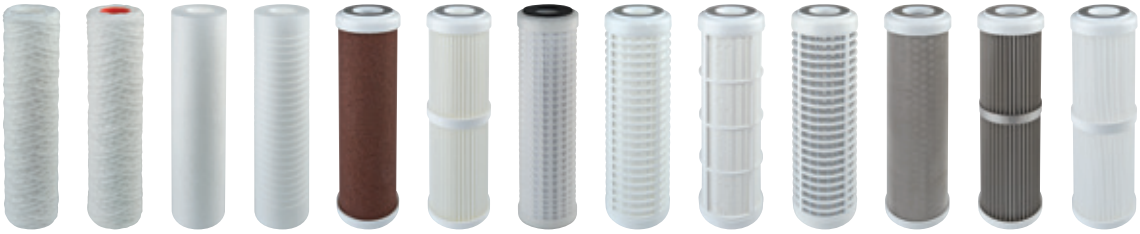
A range of housings is certified by IAPMO R&T against NSF/ANSI 42 for material safety requirements and structural integrity only, 61, 372 lead free, CSA B483.1.

Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), ACS (France) and EAC/ Ghostreghistrazia (Russia).

FILTER CARTRIDGES

SX

MECHANICAL FILTRATION



FA | FA HOT | CPP | PP | GA | TS | AC | RL | RL C | RL A | RA SX | SA SX | RS SX

FILTRATION IN DEPTH
FA - wound polypropylene thread. Filtration from 1 to 100 micron.
FA HOT - wound polypropylene thread with special inner core, for hot water. Filtration from 1 to 100 micron.
CPP - melt-blown polypropylene smooth. Filtration from 1 to 50 micron.
PP SX - melt-blown polypropylene grooved. Filtration from 1 to 50 micron.
GA - quartzite. Filtration 10 micron.
TS - polyester fabric. Filtration 20-50 micron.
AC - polypropylene-borosilicate multi-layer.
Filtration 0,2 micron and 0,45 micron.

WASHABLE CARTRIDGE
RL - polyester net. Filtration 50 - 100 micron.
RL - polyester net. Filtration 50 micron.
RL - stainless steel net. Filtration 70 micron.
RA - stainless steel net. Filtration 70 micron.
SA - stainless steel net. Filtration 50 micron.
RS - polyester net. Filtration 50 micron.

Standard double open end (DOE) configuration with antimicrobial flat seals.
Fit to SX housings

WATER TREATMENT

LA SX | FA CA | CA SX | BT RL LA | BT CPP LA | CA SE SX | CA SE HF | CB EC SX | MATRIKX | HA SX | BT CPP HA | BT RL HA | FA HA | CPP HA

GRANULAR ACTIVATED CARBON
Reduction of chlorine, taste, odour (CTO); volatile organic compounds (VOC) pesticides, insecticides, chlorinated organic compounds.
LA - granular activated carbon from coconut shell.
FA CA - wound polypropylene thread. Filtration from 5 to 100 micron. Granular activated carbon from coconut shell.
CA - melt-blown polypropylene. Filtration 25 micron. Granular activated carbon from coconut shell.
BT RL LA - Polyester net. Filtration 50 micron. Granular activated carbon from coconut shell.
BT CPP LA - melt-blown polypropylene. Filtration 5 and 25 micron. Granular activated carbon from coconut shell.

ACTIVATED CARBON BLOCK
Reduction of chlorine, taste, odour (CTO); volatile organic compounds (VOC) pesticides, insecticides, chlorinated organic compounds, heavy metals (Pb), bacteria and virus.
CA SE - activated carbon block from coconut shell. Filtration from 0,3 to 5 micron.
CA SE HF - activated carbon block from coconut shell and hollow-fibre membranes. Filtration 0,15 and 0.02 micron. Antibacterial.
CB-EC - activated carbon block from coconut shell. Filtration from 5 to 10 micron.
MATRIKX - activated carbon block made in USA

POLYPHOSPHATE CRYSTALS FOR ANTI-SCALE TREATMENT
HA - polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems.
BT CPP HA - melt-blown polypropylene. Filtration 5 and 25 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems.
BT RL HA - polyester net. Filtration 50 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems.
FA HA - wound polypropylene thread. Filtratation from 5 to 100 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems.
CPP HA -melt-blown polypropylene. Filtration 5 and 25 micron. Polyphosphate crystals suitable for drinking water when used with Dosaprop proportional dosing systems.

BX

Quick-fit configuration with 45 mm double o-ring collar.
Fit to BX housings

CX

QA CF SX | QA AF SX | QA LM SX | P S SX

IONIC EXCHANGE RESINS
QA AF - anionic resin. Reduction of nitrates.
QA LM - mixed bed of cationic and anionic resins. Demineralization.
QA CF - cationic resin. Reduction of total hardness.

EMPTY CONTAINERS
P S - containers to be filled up with water treatment products.

Quick-fit configuration with 57 mm double o-ring collar.
Fit to CX housings

PLUS SANIC HOUSINGS

with built-in antimicrobial product protection for cartridges SX and BX

SANIC® ANTIMICROBIAL
WITH BUILT-IN ANTIMICROBIAL PRODUCT PROTECTION

Range of housings with antimicrobial product protection
provided by a silver based antimicrobial agent included in the plastic matrix with a specific injection molding technology.
PLUS 3P SANIC housings are designed to work in combination with SANIC filter cartridges provided with the same antimicrobial technology and to keep the filter cleaner for longer in every single pore of their structure.

POINT OF ENTRY

COLDWATER

MAX WORKING PRESSURE
8 bar (116 psi)

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

THREADS TYPE

FO
BRASS BSPP

FP
PLASTIC BSPP

SINGLE

BOWL TYPE

CLEAR

MODELS

DUPLEX

TRIPLEX

HEIGHTS:
5", 7", 10", 20".

CARTRIDGE TYPE:
SX - BX.

TECHNICAL SPECIFICATIONS:
Selected raw materials, suitable for drinking water.
Head and ring nut: reinforced polypropylene.
Bowl: PET with built- in antimicrobial product protection.
O-ring: EPDM.
Breather-valve: body polypropylene, o-ring EPDM.
In/out brass threads: CW 617 N brass.

ACCESSORIES AVAILABLE:
wall bracket screws, 3/4" brass nipples with o-ring (pair), 3/4" plastic nipple with o-ring, 3/4"-1/4" plastic reduction with o-ring, LubriKit+

-T- wall bracket
for TRIPLEX model

SANIC CARTRIDGES
FA SANIC - wound polypropylene thread.
Filtration from 1 to 100 micron.
CPP SX - melt-blown polypropylene smooth.
Filtration from 1 to 50 micron.

FA SANIC SX | **FA SANIC BX** | **CPP SANIC SX** | **CPP SANIC BX**

ACCESSORIES INCLUDED:
wall bracket screws

-U- spanner

-S- wall bracket
for single model

-D- wall bracket
for DUPLEX model

CERTIFICATIONS:

A range of housings is certified by IAPMO R&T against NSF/ANSI 42 for material safety requirements and structural integrity only, 61, 372 lead free, CSA B483.1.

Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), ACS (France) and EAC/ Ghostreghistrazia (Russia).

POWERED BY MICROBAN®
Treated with the active substance silver phosphate glass to prevent microbial growth on the product surface

DP SANIC HOUSINGS

with built-in antimicrobial product protection for cartridges SX and BX

SANIC® ANTIMICROBIAL
WITH BUILT-IN ANTIMICROBIAL PRODUCT PROTECTION

Range of housings with antimicrobial product protection provided by a silver based antimicrobial agent included in the plastic matrix with a specific injection molding technology. Housings DP SANIC fit to both SANIC SX (DOE) cartridges and to exclusive SANIC BX cartridges with 45 mm double o-ring collar. The full range of Atlas Filtri® SANIC SX and BX cartridges is suitable to DP SANIC housings and provides the widest range of water filtration units with ANTIMICROBIAL TECHNOLOGY.

POINT OF ENTRY

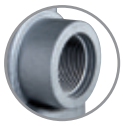
COLDWATER

MAX WORKING PRESSURE
8 bar (116 psi)

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

THREADS TYPE

FO
BRASS BSPP



FP
PLASTIC BSPP

BOWL TYPE

CLEAR

OPAQUE

MODELS

MONO

DUO

TRIO

HEIGHTS:
5", 7", 10", 20".

CARTRIDGE TYPE:
SX - BX.

TECHNICAL SPECIFICATIONS:
Selected raw materials, suitable for drinking water.
Head: reinforced polypropylene.
Clear bowl: PET with antimicrobial technology.
Opaque bowl: reinforced polypropylene with antimicrobial technology.
O-ring: EPDM.
Breather-valve: body stainless steel, o-ring EPDM.
In/out brass threads: CW 617 N brass.

ACCESSORIES AVAILABLE:
3/4" brass nipples with o-ring (pair), 3/4" plastic nipple with o-ring, 3/4"-1/4" plastic reduction with o-ring, LubriKit+

ACCESSORIES INCLUDED:
wall bracket screws

SANIC CARTRIDGES
FA SANIC - wound polypropylene thread.
Filtration from 1 to 100 micron.
CPP SX - melt-blown polypropylene smooth.
Filtration from 1 to 50 micron.

FA SANIC SX

FA SANIC BX

CPP SANIC SX

CPP SANIC BX

-X- spanner

-S- wall bracket for single model

-DUO- wall bracket for DUO model

-TRIO- wall bracket for TRIO model

CERTIFICATIONS:

A range of housings is certified by IAPMO R&T against NSF/ANSI 42 for material safety requirements and structural integrity only, 61, 372 lead free, CSA B483.1.

Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy), ACS (France) and EAC/ Ghostreghistrazia (Russia).

POWERED BY MICROBAN®
Treated with the active substance silver phosphate glass to prevent microbial growth on the product surface

PLUS HOT 3P HOUSINGS

Range of housings applicable for hot water filtration

POINT OF ENTRY COLDWATER HOTWATER

MAX WORKING PRESSURE
8,6 bar (125 psi)

MAX WORKING TEMPERATURE
80°C (176°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

HEIGHTS:
- 3 Pheights 5” 7”, 10”, 20”.
- 3P S heights 10”, 20”

CARTRIDGE TYPE:
SX - BX.

TECHNICAL SPECIFICATIONS:
Selected raw materials.
Head and ring nut: reinforced nylon.
Bowl: reinforced nylon.
O-ring: EPDM.
Breather-valve: body polypropylene, o-ring EPDM.
S series:
Discharge ball-valve: CW 614 N brass nickel plated.
Discharge plastic nipple: reinforced polypropylene.
O-ring: EPDM
Drain funnel: reinforced polypropylene.

THREADS TYPE

FP
PLASTIC BSPP

VERSIONS

HOT

-HOT S-
with discharge

ACCESSORIES AVAILABLE:
wall bracket screws, Lubrikit+

-N- spanner

-S- wall bracket

CERTIFICATIONS:

A range of housings tested and certified by IAPMO R&T against NSF/ANSI 42, structural integrity only, and CSA B483.1, structural integrity only

Products are tested and certified under the most stringent procedures worldwide, in compliance with EAC/ Ghostreghistrazia (Russia).

K DP HOUSINGS

Range of housings with brass head designed to withstand working pressure up to 10 bar

POINT OF ENTRY

COLDWATER

MAX WORKING PRESSURE
10 bar (145 psi)

MAX WORKING TEMPERATURE
45°C (113°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

THREADS TYPE

FO
BRASS BSPP

VERSIONS

K DP

D DP M
with manometers

K DP S
with discharge

K DP SM
with manometers and discharge

HEIGHTS:
- K1 DP - K2 DP for BX cartridges, heights 5", 7", 10", 20".
- K3 DP - K4 DP for CX cartridges, heights 10", 20".

IN/OUT:
3/4", 1", 1"1/2, 2" BRASS BSPP

CARTRIDGE TYPE:
SX - BX - CX

TECHNICAL SPECIFICATIONS:
Selected raw materials, suitable for drinking water.
Head: CB 753 S brass.
Bowl: PET.
O-ring: EPDM.
Breather-valve: CW 614 N brass.
M models:
Manometers radial type, pressure range 0-12 bar, 0-170 psi.
S models:
Discharge ball-valve: CW 614 N brass nickel plated.
Discharge plastic nipple: reinforced polypropylene.
O-ring: EPDM
Drain funnel: reinforced polypropylene.

ACCESSORIES AVAILABLE:
wall bracket screws, 3/4" and 1" brass nipples with o-ring (pair)

-X- spanner

-K DP- wall bracket

CERTIFICATIONS:

prodotto conforme a D.M. 25/2012

EAC

Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy) and EAC/ Ghostreghistrazia (Russia).

FX-AF and XX HOUSINGS

Range of housings entirely made of metal, with stainless steel tightening clamp, designed to work at high pressure and temperature

POINT OF ENTRY COLDWATER HOTWATER

MAX WORKING PRESSURE
16 bar (232 psi)

FX AF MAX WORKING TEMPERATURE
80°C (176°F)
XX MAX WORKING TEMPERATURE
100°C (212°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

HEIGHTS:
- FX-AF fit to BX and CX filter cartridges, heights 10", 20".
- XX fit to SX filter cartridges, height 10".

IN/OUT:
FX-AF: 3/4", 1", 1"1/2, 2" brass BSPP
XX: 1" AISI 316 stainless steel BSPP

FX AF TECHNICAL SPECIFICATIONS:
Selected raw materials, suitable for drinking water.
Head: CB 753 S brass.
Bowl: AISI 304 stainless steel.
Clamp: AISI 304 stainless steel.
Seal: VITON.

XX TECHNICAL SPECIFICATIONS:
Selected raw materials, suitable for drinking water.
Head: AISI 316 stainless steel.
Bowl: AISI 316L stainless steel.
Clamp: AISI 316L stainless steel.
O-ring: EPDM.

XX

FX AF

ACCESSORIES AVAILABLE:
wall bracket screws, 3/4" and 1" brass nipples with o-ring (pair)

-K DP- wall bracket for FX AF

CERTIFICATIONS:

prodotto conforme a D.M. 25/2012

Products are tested and certified under the most stringent procedures worldwide, in compliance with DM 25 (Italy) and EAC/ Ghostreghistrazia (Russia).

MULTI-CARTRIDGE CONTAINERS

Filtration systems for high flow rates

HYDROS *Multi-cartridge containers in AISI 316 steel*

HYDROS is a multi-cartridge container that can handle medium and high flows. It is only available in AISI 316 stainless steel so as to prevent corrosion and facilitate cleaning. The internal sealing parts are designed to house filtering elements in the most common configurations. The containers Hydros can house any type of filtering cartridgesSX - ranging from the classic wire-wound filtering elements to the more recent products in polypropylene microfibre melt-blown - or pleated cartridges with a high filtering surface in disposable or washable metal versions. They are suitable for cartridges SX and have 1" 1/2, 2" IN/OUT connections, BSPP type thread.

POINT OF ENTRY **COLDWATER** **HOTWATER**

MAX WORKING PRESSURE
9 bar (130 psi)

MAX WORKING TEMPERATURE
80°C (176°F)
MIN WORKING TEMPERATURE
4°C (39,2°F)

TECHNICAL SPECIFICATIONS:

Selected raw materials, suitable for drinking water.
Body and supports: AISI 316 stainless steel.
O-ring: NBR.
Closure: AISI 304 stainless steel clamp with screw.
Internal cartridge tensioner tie-rod: AISI 316 stainless steel.
Crushing plate: AISI 316 stainless steel.
Vent valve: AISI 316 stainless steel.

SPECIAL PRODUCTS AVAILABLE ON MINIMUM QUANTITY:

Containers with 2"1/2 and 3" IN/OUT connections.

HYDROS

CERTIFICATIONS:

prodotto conforme a D.M. 25/2012

EAC

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FDM

MAGNETIC SLUDGE FILTERS

for filtering water in heating loops

POINT OF USE
BOILER

POINT OF USE
THERMAL CIRCUIT

HOTWATER

MAX WORKING PRESSURE
3 bar a 90°C

WORKING TEMPERATURE
4÷90°C

TECHNICAL SPECIFICATIONS

All models:
Compatible fluids: water, water + glycol
Filter cartridge: AISI 304 L stainless steel
O-rings: EPDM
Magnet: NdFeB - 4500 Gauss
Filtration rating: 500 µm

FDM-1P
3/4" plastic fittings - body and cap: Reinforced PA66 polyamide
Ball valve - rotary fitting: CW 617 N brass
Drain plug: CW 614 N brass - 1/2"
Magnet container: stainless steel AISI 316
Magnet holder: Polypropylene

FDM-1ME
3/4" plastic fittings - Body - Cap with magnet holder:
Reinforced PA66 polyamide
Ball valve - Swivel joint: CW 617 N Brass.
Discharge cap and magnet cap: Brass CW 614 N.
Magnet container: stainless steel AISI 316.
Screws: stainless steel AISI 304/316

FDM-2
FDM-2/A - 3/4" and 1" plastic fittings:
Reinforced PA66 polyamide
FDM-2/B: 3/4" brass fittings: CW 617 N brass
FDM-2/C: 1" brass fittings: CW 617 N brass
Body and cap: Reinforced PA66 polyamide
Drain plug: CW 614 N brass - 3/4"
Magnet container: CW 617 N brass / AISI 304 stainless steel
Magnet holder: Polypropylene

FDM-3
Fully rotatable plastic fittings, 3/4" and 1": Reinforced PA66 polyamide
Body and cap: Reinforced PA66 polyamide
Drain plug: CW 614 N brass - 3/4"
Magnet container: CW 617 N brass / AISI 304 stainless steel
Magnet holder: Polypropylene
Bleed / filling cap: CW 614 N brass
Locking clip / fork: AISI 304 stainless steel

MODELS


FDM-1P


FDM-1ME


FDM-2A


FDM-2B


FDM-3

CERTIFICATIONS:

EAC

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ATLAS FILTRI®
improving water

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