

Techno appliances



SOFTENERS
IRON REMOVERS
CHLORINE REMOVERS
SAND FILTERS
DISINCRUSTANTS
UV STERILIZERS

softeners Jupiter removal of total hardness



Jupiter



Jupiter CAB



Jupiter Minicab



Jupiter Duplex

APPLICATIONS

The process of water softening (removal of total hardness - TH) by the means of ion-exchange resin is the way to remove salts of calcium and magnesium that may form calcareous encrustations.

The installation of a softener is recommended to avoid encrustations into pipelines and on domestic and industrial water heating appliances, to save energy and thermal efficiency.

Jupiter softeners can be provided on request with manual by-pass to mix the softened water with raw water to comply with any required level of residual total hardness.

Domestic use: anti-scale protection of pipes, taps, boilers, heating systems, washing machines, and other installations.

Technical use: all applications when removal of total hardness is required.

Remark - Use a pre-filter to protect the softener; use a polyphosphate dosing system downstream the softener to avoid any corrosive action due to softened water.

SPECIFICATIONS

Non-toxic 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 (Na cycle).

> **Regeneration:** exhausted resin is automatically regenerated by a saturated solution of NaCl (brine).

Remark – material for regeneration (NaCl) not provided with the softener.

WORKING CONDITIONS

Max working pressure _____ 6 BAR

Min working pressure _____ 2 BAR

Max working temperature _____ 50°C

Max concentration Fe _____ 0,1 ppm

Max concentration free Cl _____ 0,5 ppm

JUPITER ATL - ATM SOFTENERS WITH TIMER CONTROL VALVE

Control valves

- ATL 255: Autotrol 255/740 Logix - digital timer
- ATL 268: Autotrol 268/740 Logix - digital timer
- ATM: Autotrol Magnum - timer

Electrical functioning (ballast): 12 Volt.

Electrical absorption: 3 Watt.

CE - TUV certified.

JUPITER AVL - AVM SOFTENERS WITH VOLUMETRIC CONTROL VALVE

Control valves

- AVL 255: Autotrol 255/760 Logix digital volumetric
 - AVL 268: Autotrol 268/760 Logix digital volumetric
 - AVM: Autotrol Magnum - volumetric
- Electrical functioning (ballast): 12 Volt.
Electrical absorption: 3 Watt.
CE - TUV certified.

JUPITER DUPLEX AV - AVM DUPLEX SOFTENERS WITH 2 VOLUMETRIC CONTROL VALVES*

Control valves

- AV 255: Autotrol 255/964 - volumetric
 - AV 278: Autotrol 278/964 - volumetric
 - AVM: Autotrol Magnum Twin - volumetric
- Electrical functioning (ballast): 12 Volt.
Electrical absorption: 3 Watt.
CE - TUV certified.

* Remark - valves work alternatively

all items provided with

accessories



TH Control Kit

Total hardness control



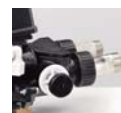
Easy test strips



ATL chlorinator kit (electrodes) for disinfection of resins



M chlorinator kit (electrodes) for disinfection of resins for Autotrol Magnum.



manual by-pass

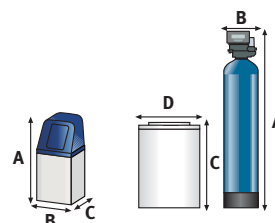
VARIANTS available

- FT softeners with valve Fleck with timer.
- FV softeners with volumetric valve Fleck.

REFILL

Strong cationic resin, package of 25 litres.

softeners Jupiter range of products



JUPITER ATL - ATM softeners with timer control valve	in/out threads	resin volume litres*	cycle capacity m³/°F	tank volume brine-litres	average brine consumption kg	mm				recommended flow rate l/h	max flow rate l/h
						A	B	C	D		
Jupiter 10 ATL 255	3/4"	10	60	85	1,4	665	212	450	340	800	1000
Jupiter 15 ATL 255	3/4"	15	90	85	2,5	1120	189	450	340	900	1100
Jupiter 30 ATL 255	3/4"	30	180	85	4,3	1096	265	1040	340	1900	2300
Jupiter 50 ATL 255	1"	50	300	140	7,3	1580	265	1040	340	2100	2500
Jupiter 70 ATL 255	1"	70	420	140	11,3	1680	300	1040	340	2500	3200
Jupiter 100 ATL 268	1"	100	600	190	15	1764	363	1080	500	3700	4900
Jupiter 120 ATL 268	1"	120	720	190	19	1762	413	1080	500	4100	6500
Jupiter 150 ATM	1-1/2"	150	900	340	30	1812	486	1150	635	8000	10400
Jupiter 175 ATM	1-1/2"	175	1050	340	35	1812	486	1150	635	8000	10400
Jupiter 200 ATM	1-1/2"	200	1200	460	40	1818	550	1150	742	11000	14000
Jupiter 230 ATM	1-1/2"	230	1380	460	46	1818	550	1150	742	11000	14000
Jupiter 270 ATM	1-1/2"	270	1620	670	54	2005	626	1150	885	12800	16000
Jupiter 300 ATM	1-1/2"	300	1620	670	54	2005	626	1150	885	12800	16000

JUPITER CAB ATL softeners with timer control valve	in/out threads	resin volume litres*	cycle capacity m³/°F	average brine consumption kg	mm			recommended flow rate l/h	max flow rate l/h
					A	B	C		
Jupiter CAB 10 ATL	3/4"	10	60	2	665	320	480	800	1000
Jupiter CAB 15 ATL	3/4"	15	90	3	1130	320	480	900	1100
Jupiter CAB 30 ATL	3/4"	30	180	6	1130	320	480	1900	2300

JUPITER AVL - AVM softeners with volumetric control valve	in/out threads	resin volume litres*	cycle capacity m³/°F	tank volume brine- litres	average brine consumption kg	mm				recommended flow rate l/h	max flow rate l/h
						A	B	C	D		
Jupiter 10 AVL 255	3/4"	10	60	85	1,4	665	212	450	340	800	1000
Jupiter 15 AVL 255	3/4"	15	90	85	2,5	1120	189	450	340	900	1100
Jupiter 30 AVL 255	3/4"	30	180	85	4,3	1096	265	1040	340	1900	2300
Jupiter 50 AVL 255	1"	50	300	140	7,3	1580	265	1040	340	2100	2500
Jupiter 70 AVL 255	1"	70	420	140	11,3	1680	300	1040	340	2500	3200
Jupiter 100 AVL 268	1"	100	600	190	15	1764	363	1080	500	3700	4900
Jupiter 120 AVL 268	1"	120	720	190	19	1762	413	1080	500	4100	6500
Jupiter 150 AVM	1-1/2"	150	900	340	30	1812	486	1150	635	8000	10400
Jupiter 175 AVM	1-1/2"	175	1050	340	35	1812	486	1150	635	8000	10400
Jupiter 200 AVM	1-1/2"	200	1200	460	40	1818	550	1150	742	11000	14000
Jupiter 230 AVM	1-1/2"	230	1380	460	46	1818	550	1150	742	11000	14000
Jupiter 270 AVM	1-1/2"	270	1620	670	54	2005	626	1150	885	12800	16000
Jupiter 300 AVM	1-1/2"	300	1620	670	54	2005	626	1150	885	12800	16000

JUPITER CAB AVL softeners with volumetric control valve	in/out threads	resin volume litres*	cycle capacity m³/°F	average brine consumption kg	mm			recommended flow rate l/h	max flow rate l/h
					A	B	C		
Jupiter Minicab 5 AVL	3/4"	4,5	25	0,25	240	530	435	800	1000
Jupiter CAB 10 AVL	3/4"	10	60	2	665	320	480	800	1000
Jupiter CAB 15 AVL	3/4"	15	90	3	1130	320	480	900	1100
Jupiter CAB 30 AVL	3/4"	30	180	6	1130	320	480	1900	2300

JUPITER DUPLEX AV - AVM duplex softeners with 2 volumetric control valve	in/out threads	resin volume litres*	cycle capacity m³/°F	tank volume brine- litres	average brine consumption kg	mm				recommended flow rate l/h	max flow rate l/h
						A	B	C	D		
Jupiter Duplex 40 AV 255	1"	40	240	2 x 85	5,8	1320	260	450	340	2000	2400
Jupiter Duplex 75 AV 255	1"	75	450	2 x 140	12	1680	300	1040	340	2600	3400
Jupiter Duplex 75 AV 278	1"	75	450	2 x 140	12	1680	300	1040	340	2600	3400
Jupiter Duplex 100 AV 278	1"	100	600	2 x 190	15	1764	363	1080	500	3700	4900
Jupiter Duplex 100 AVM	1-1/2"	100	600	2 x 190	15	1764	363	1080	500	3700	4900
Jupiter Duplex 125 AV 278	1"	125	750	2 x 190	20	1762	413	1080	500	4200	6800
Jupiter Duplex 125 AVM	1-1/2"	125	750	2 x 190	20	1762	413	1080	500	4200	6800
Jupiter Duplex 150 AV 278	1"	150	900	2 x 340	30	1812	486	1150	635	8000	10400
Jupiter Duplex 150 AVM	1-1/2"	150	900	2 x 340	30	1812	486	1150	635	8000	10400
Jupiter Duplex 200 AV 278	1"	200	1200	2 x 460	46	1818	550	1150	742	11000	14000
Jupiter Duplex 200 AVM	1-1/2"	200	1200	2 x 460	46	1818	550	1150	742	11000	14000
Jupiter Duplex 300 AVM	1-1/2"	300	1800	2 x 670	54	2005	626	1150	885	12800	16000

*Remark - Models with higher volume available on request.

Iron-removers Mars removal of iron and manganese



Mars PRL - BRM

Mars GS

APPLICATIONS

Iron and manganese are removed from water by various oxidizing media. The installation of an iron-remover is recommended to avoid yellowish-reddish colour of water, deposits on pipelines, corrosion on appliances, bad tastes-odours and in general un-aesthetical effects.

In drinking water, iron should not exceed 0.2 mg/l, manganese should not exceed 0.05 mg/l.

Domestic use: production of water without iron and manganese for drinking use, treatment of drinking water for the protection of domestic installations.

Technical use: all application when removal of iron and manganese is required.

Remark - Use a pre-filter to protect the iron-remover; a post-filter is recommended to avoid release of fines into the hydraulic circuit.

SPECIFICATIONS

Non-toxic materials, suitable for drinking water.

Control-valve: NORYL.

Tank: glass-fibre reinforced polyethylene.

Regeneration medium tank (Mars GS only): polyethylene.

WORKING CONDITIONS

Min dissolved oxygen content	_____	15% of iron content
Max working pressure	_____	6 BAR
Min working pressure	_____	2 BAR
Max working temperature	_____	50°C
pH	_____	6,5-8,5
Max concentration free Cl	_____	0,5 mg/l
Max organics content	_____	4,5 ppm
Hydrogen sulphide	_____	absent (only for MARS BRM - GS)

MARS PRL

IRON-REMOVERS WITH PIROLUSITE

Treating material: PYROLUSITE, high stability oxidizing medium: requires less oxygen concentration (< 15%) than other oxidizing media, not affected by the presence of hydrogen sulphide.

> **Regeneration:** no regeneration medium required, the valve automatically back-wash the oxidizing medium.

MARS PRL ATL - ATM

with timer control valve.

Control valves

- ATL 263: Autotrol 263/740 Logix - digital timer

- ATM: Autotrol Magnum - timer

Electrical functioning (ballast): 12 Volt.

Electrical absorption: 3 Watt.

CE - TUV certified.

MARS PRL AVL - AVM

with volumetric control valve.

Control valves

- AVL 263: Autotrol 263/760 Logix - digital volumetric

- AVM: Autotrol Magnum - volumetric

Electrical functioning (ballast): 12 Volt.

Electrical absorption: 3 Watt.

CE - TUV certified.

MARS BRM

IRON-REMOVERS WITH BIRM

Treating material: BIRM, high stability oxidizing medium: requires oxygen concentration (> 15%), affected by the presence of hydrogen sulphide.

> **Regeneration:** no regeneration medium required, the valve automatically back-wash the oxidizing medium.

MARS BRM ATL - ATM

with timer control valve.

Control valves

- ATL 263: Autotrol 263/740 Logix - digital timer

- ATM: Autotrol Magnum - timer

Electrical functioning (ballast): 12 Volt.

Electrical absorption: 3 Watt.

CE - TUV certified.

MARS BRM AVL - AVM

with volumetric control valve.

Control valves

- AVL 263: Autotrol 263/760 Logix - digital volumetric

- AVM: Autotrol Magnum - volumetric

Electrical functioning (ballast): 12 Volt.

Electrical absorption: 3 Watt.

CE - TUV certified.

MARS GS

IRON-REMOVERS WITH Manganese GREEN-SAND

Treating material: manganese GREEN-SAND, high stability oxidizing medium: requires oxygen concentration (> 15%), affected by the presence of hydrogen sulphide.

> **Regeneration:** require potassium permanganate as regeneration medium, the valve automatically regenerate the oxidizing medium.

Remark - regeneration medium (potassium permanganate) not provided.

MARS MNG ATL

Control valve

- ATL 263: Autotrol 263/740 Logix - digital timer

Electrical functioning (ballast): 12 Volt.

Electrical absorption: 3 Watt.

CE - TUV certified.

VARIANTS available

FT Iron-removers with valve Fleck with timer.

FV Iron-removers with volumetric valve Fleck.

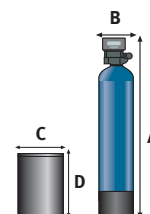
REFILL

BIRM® package of 28,3 litres.

Pyrolusite package of 12,5 litres.

Manganese GREEN-SAND package of 28,3 litres.

iron-removers Mars ATL range of products



MARS PRL ATL - ATM iron-removers with PYROLUSITE - timer control valve	in/out threads	PYROLUSITE volume litres*	mm		recommended flow rate l/h	max flow rate l/h
			A	B		
Mars PRL 25 ATL 263	1"	25	1320	205	500	750
Mars PRL 50 ATL 263	1"	50	1570	255	800	1200
Mars PRL 75 ATL 263	1"	75	1570	330	1300	1900
Mars PRL 100 ATL 263	1"	100	1670	355	1500	2200
Mars PRL 125 ATL 263	1"	125	1850	405	2000	2900
Mars PRL 150 ATL 263	1"	150	1850	460	2500	3600
Mars PRL 200 ATL 263	1"	200	1775	535	3400	5000
Mars PRL 200 ATM	1-1/2"	200	1775	535	3400	5000
Mars PRL 300 ATM	1-1/2"	300	2030	610	3400	6500

MARS PRL AVL - AVM iron-removers with PYROLUSITE - volumetric control valve	in/out threads	PYROLUSITE volume litres*	mm		recommended flow rate l/h	max flow rate l/h
			A	B		
Mars PRL 25 AVL 263	1"	25	1320	205	500	750
Mars PRL 50 AVL 263	1"	50	1570	255	800	1200
Mars PRL 75 AVL 263	1"	75	1570	330	1300	1900
Mars PRL 100 AVL 263	1"	100	1670	355	1500	2200
Mars PRL 125 AVL 263	1"	125	1850	405	2000	2900
Mars PRL 150 AVL 263	1"	150	1850	460	2500	3600
Mars PRL 200 AVL 263	1"	200	1775	535	3400	5000
Mars PRL 200 AVM	1-1/2"	200	1775	535	3400	5000
Mars PRL 300 AVM	1-1/2"	300	2030	610	3400	6500

MARS BRM ATL - ATM iron-removers with BIRM - timer control valve	in/out threads	BIRM volume litres*	mm		recommended flow rate l/h	max flow rate l/h
			A	B		
Mars BRM 25 ATL 263	1"	25	1320	205	500	750
Mars BRM 50 ATL 263	1"	50	1570	255	800	1200
Mars BRM 75 ATL 263	1"	75	1570	330	1300	1900
Mars BRM 100 ATL 263	1"	100	1670	355	1500	2200
Mars BRM 125 ATL 263	1"	125	1850	405	2000	2900
Mars BRM 150 ATL 263	1"	150	1850	460	2500	3600
Mars BRM 200 ATL 263	1"	200	1775	535	3400	5000
Mars BRM 200 ATM	1-1/2"	200	1775	535	3400	5000
Mars BRM 300 ATM	1-1/2"	300	2030	610	3400	6500

MARS BRM AVL - AVM iron-removers with BIRM - volumetric control valve	in/out threads	BIRM volume litres*	mm		recommended flow rate l/h	max flow rate l/h
			A	B		
Mars BRM 25 AVL 263	1"	25	1320	205	500	750
Mars BRM 50 AVL 263	1"	50	1570	255	800	1200
Mars BRM 75 AVL 263	1"	75	1570	330	1300	1900
Mars BRM 100 AVL 263	1"	100	1670	355	1500	2200
Mars BRM 125 AVL 263	1"	125	1850	405	2000	2900
Mars BRM 150 AVL 263	1"	150	1850	460	2500	3600
Mars BRM 200 AVL 263	1"	200	1775	535	3400	5000
Mars BRM 200 AVM	1-1/2"	200	1775	535	3400	5000
Mars BRM 300 AVM	1-1/2"	300	2030	610	3400	6500

MARS GS ATL iron-removers with Manganese GRREN-SAND timer control valve	in/out threads	GREEN SAND volume litres*	mm				recommended flow rate l/h	max flow rate l/h
			A	B	C	D		
Mars GS 25 ATL 263	1"	25	1320	205	420	266	500	750
Mars GS 50 ATL 263	1"	50	1570	255	420	266	800	1200
Mars GS 75 ATL 263	1"	75	1570	330	420	266	1300	1900
Mars GS 100 ATL 263	1"	100	1670	355	420	266	1500	2200
Mars GS 125 ATL 263	1"	125	1850	405	420	266	2000	2900

*Remark - Models with higher volume available on request.

chlorine-removers Venus

removal of chlorine and chlorate compounds



Venus

APPLICATIONS

Chlorine, chlorides and chlorate compounds such as pesticides and other toxic compounds occasionally found in drinking water are removed by a bed of granular activated carbon (GAC). GAC with its wide porous structure performs the highest absorptive action to ensure the removal of bad tastes, odours and toxic compounds. In addition GAC grants a fine filtration to achieve the highest aesthetical results.

Domestic use: removal of bad tastes and odours due to chlorine; removal of toxic compounds.

Technical use: anti-chlorine treatment of process water for food industry, chemical, pharmaceutical; pre-treatment for the protection of reverse osmosis membranes.

Remark - Use a pre-filter to protect the chlorine-remover; a post-filter is recommended to avoid release of fines into the hydraulic circuit.

SPECIFICATIONS

Non-toxic materials, suitable for drinking water.

Control-valve: NORYL.

Tank: glass-fibre reinforced polyethylene.

Treating material: granular activated carbon from coconut shell.

> Regeneration: no regeneration medium required, the valve automatically back-wash the GAC.

WORKING CONDITIONS

Max working pressure	_____	6 BAR
Min working pressure	_____	2 BAR
Max working temperature	_____	50°C
Max content free Cl	_____	2 mg/l

VENUS ATL - ATM CHLORINE-REMOVERS WITH TIMER CONTROL VALVE

Control valves

- ATL 263: Autotrol 263/740 Logix - digital timer
- ATM: Autotrol Magnum - timer
Electrical functioning (ballast): 12 Volt.
Electrical absorption: 3 Watt.
CE - TUV certified.

VENUS AVL - AVM CHLORINE-REMOVERS WITH VOLUMETRIC CONTROL VALVE

Control valves

- AVL 263: Autotrol 263/760 Logix - digital volumetric
- AVM: Autotrol Magnum - volumetric
Electrical functioning (ballast): 12 Volt.
Electrical absorption: 3 Watt.
CE - TUV certified.

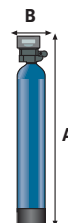
VARIANTS available

FT Chlorine-removers with valve Fleck with timer.

FV Chlorine-removers with volumetric valve Fleck.

REFILL

Granular activated carbon, package of 25 kg.



chlorine-removers **Venus** range of products

VENUS ATL - ATM chlorine-removers with timer control valve	in/out threads	carbon volume litres*	mm		nominal flow rate l/h	max flow rate l/h
			A	B		
Venus 25 ATL 263	1"	25	1320	205	500	700
Venus 50 ATL 263	1"	50	1570	255	800	1100
Venus 75 ATL 263	1"	75	1570	330	1400	1800
Venus 100 ATL 263	1"	100	1670	355	1600	2100
Venus 125 ATL 263	1"	125	1850	405	2100	2800
Venus 150 ATL 263	1"	150	1850	460	2600	3500
Venus 200 ATL 263	1"	200	1775	535	3600	4700
Venus 200 ATM	1 1/2"	200	1775	535	3600	4700
Venus 300 ATM	1 1/2"	300	2030	610	4700	6200

VENUS AVL - AVM chlorine-removers with volumetric control valve	in/out threads	carbon volume litres*	mm		nominal flow rate l/h	max flow rate l/h
			A	B		
Venus 25 AVL 263	1"	25	1320	205	500	700
Venus 50 AVL 263	1"	50	1570	255	800	1100
Venus 75 AVL 263	1"	75	1570	330	1400	1800
Venus 100 AVL 263	1"	100	1670	355	1600	2100
Venus 125 AVL 263	1"	125	1850	405	2100	2800
Venus 150 AVL 263	1"	150	1850	460	2600	3500
Venus 200 AVL 263	1"	200	1775	535	3600	4700
Venus 200 AVM	1 1/2"	200	1775	535	3600	4700
Venus 300 AVM	1 1/2"	300	2030	610	4700	6200

*Remark - Models with higher volume available on request.

quartzite filters Sand removal of impurities



Sand

APPLICATIONS

Impurities are removed from water by passing through a bed of quartzite sand of various gradation. The installation of a Sand filter is recommended when the load of turbidity (sand, lime, scales, colloids, etc.) of water is very high, affecting the water quality and aesthetics and resulting in deposits and encrustations on pipelines, boilers, taps and on domestic and industrial appliances in general.

Domestic use: removal of impurities.

Technical use: removal of impurities.

SPECIFICATIONS

Non-toxic materials, suitable for drinking water.

Control-valve: NORYL.

Tank: glass-fibre reinforced polyethylene.

Treating material: quartzite sand.

> **Regeneration:** no regeneration medium required, the valve automatically back-wash the quartzite sand.

WORKING CONDITIONS

Max working pressure	_____	6 BAR
Min working pressure	_____	2 BAR
Max working temperature	_____	50°C

SAND ATL - ATM FILTERS WITH TIMER CONTROL VALVE

Control valves

- ATL 263: Autotrol 263/740 Logix - digital timer
 - ATM: Autotrol Magnum - timer
 Electrical functioning (ballast): 12 Volt.
 Electrical absorption: 3 Watt.
 CE - TUV certified.

SAND AVL - AVM FILTERS WITH VOLUMETRIC CONTROL VALVE

Control valves

- AVL 263: Autotrol 263/760 Logix - digital volumetric
 - AVM: Autotrol Magnum - volumetric
 Electrical functioning (ballast): 12 Volt.
 Electrical absorption: 3 Watt.
 CE - TUV certified.

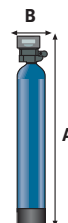
VARIANTS available

FT Filters with valve Fleck with timer.

FV Filters with volumetric valve Fleck.

REFILL

Quartzite, package of 25 kg.



quartzite filters Sand range of products

Sand ATL - ATM filters with timer control valve	in/out threads	quartzite volume litres*	mm		nominal flow rate l/h	max flow rate l/h
			A	B		
Sand 25 ATL 263	1"	25	1320	205	500	700
Sand 50 ATL 263	1"	50	1570	255	800	1100
Sand 75 ATL 263	1"	75	1570	330	1400	1800
Sand 100 ATL 263	1"	100	1670	355	1600	2100
Sand 125 ATL 263	1"	125	1850	405	2100	2800
Sand 150 ATL 263	1"	150	1850	460	2600	3500
Sand 200 ATL 263	1"	200	1775	535	3600	4700
Sand 200 ATM	1 1/2"	200	1775	535	3600	4700
Sand 300 ATM	1 1/2"	300	2030	610	4700	6200

Sand AVL - AVM filters with volumetric control valve	in/out threads	quartzite volume litres*	mm		nominal flow rate l/h	max flow rate l/h
			A	B		
Sand 25 AVL 263	1"	25	1320	205	500	700
Sand 50 AVL 263	1"	50	1570	255	800	1100
Sand 75 AVL 263	1"	75	1570	330	1400	1800
Sand 100 AVL 263	1"	100	1670	355	1600	2100
Sand 125 AVL 263	1"	125	1850	405	2100	2800
Sand 150 AVL 263	1"	150	1850	460	2600	3500
Sand 200 AVL 263	1"	200	1775	535	3600	4700
Sand 200 AVM	1 1/2"	200	1775	535	3600	4700
Sand 300 AVM	1 1/2"	300	2030	610	4700	6200

*Remark - Models with higher volume available on request.

pumps Clear

for disincrustation, products for disincrustation and neutralization



APPLICATIONS

Removal of calcareous incrustations and other deposits from heating systems and pipes. For domestic, technical and industrial use. All pumps are provided with a special flow inverter device for back flow to ensure the deeper disincrustation.

SPECIFICATIONS

CLEAR: electric vertical pump with flow inverter; protection level IP 54. Provided with flow-rate and pressure self-regulating system on the degree of encrustation.

DICAL: mix of acids and surfactants for encrustation removal.

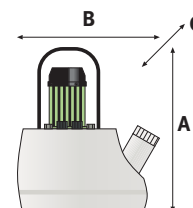
NEUTRAL: alkaline mix of carbonates for the neutralization of Dical residual acidity.

Warning - Irritating products. Strictly apply to the instructions provided with the products.

Use exclusively the disincrustant product applicable to the various materials as indicated in the table under the item "applicable to".

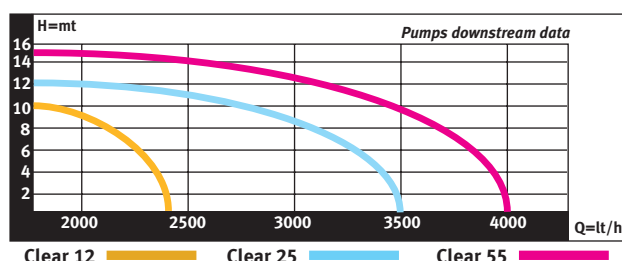
pump	tank litres	Volt	engine kW	head metres	mm			recommended flow rate l/h
					A	B	C	
Clear 12	17	220	0,12	10	430	450	300	2400
Clear 25	27	220	0,25	12	580	450	300	3500
Clear 55	37	220	0,55	15	690	450	300	4000

disincrustant products	applicable to	status	colour	ph
Dical 01	copper, steel	liquid	ruby red	1
Dical 02	aluminium, light alloys	liquid	ruby red	1,2

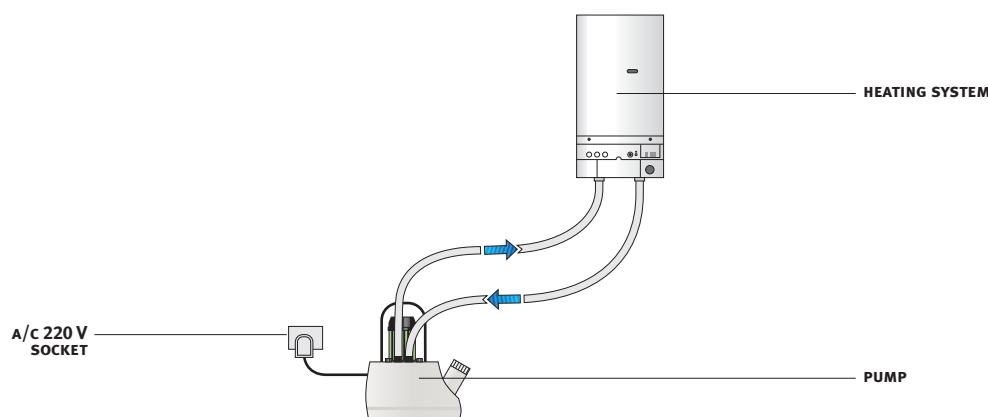


*Remark - After disincrustation use **Neutral:** acidity neutralizer powder at pH 11,4.

WORKING CURVES



INSTALLATION SCHEME



sterilizers UV

for water sterilization with ultra-violet rays lamp



APPLICATIONS

Removal of micro-organisms.

Domestic use: production of sterilized water for drinking use.

Technical use: production of sterilized water for food industry, chemical, pharmaceutical. Sterilization of zoo-technical appliances (milking machines, troughs, water collection circuits and reservoirs).

Remark: Use a fine (minimum 5 micron) pre-filter to ensure the UV unit efficacy.

WORKING CONDITIONS

Max working pressure	_____	9 BAR
Min working pressure	_____	2 BAR
Max working temperature	_____	35°C
Water aspect	_____	transparent
Max turbidity	_____	0,5 JU (Jackson Units)
Max content Fe	_____	0,3 mg/l
Max content Mn	_____	0,05 mg/l
Max total dissolved salinity	_____	500 mg/l

SPECIFICATIONS

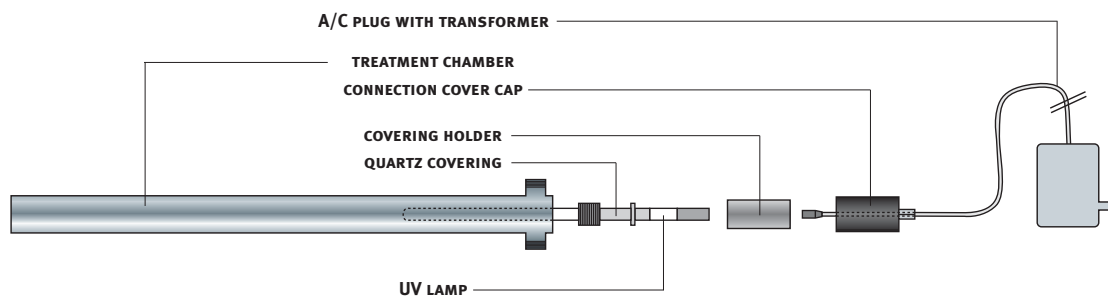
Non-toxic materials, suitable for drinking water.

Treating chamber: bright stainless steel AISI 304.

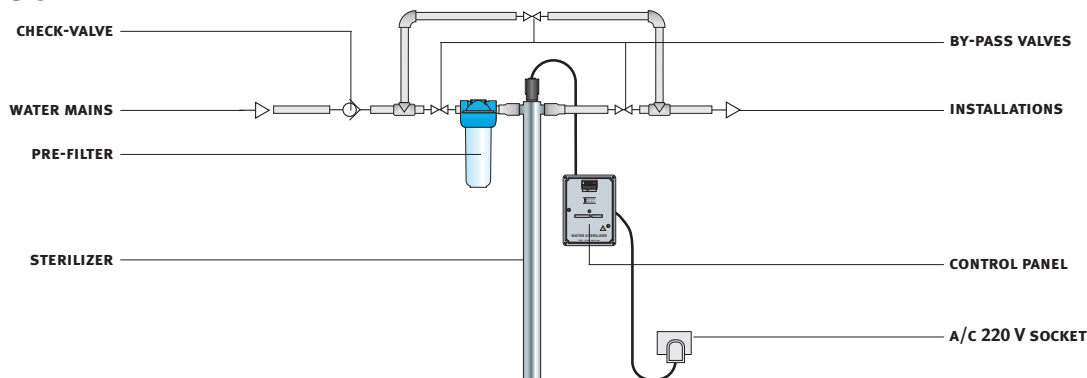
UV lamp radiation energy: > 30000 mWsec/cm².

Electrical functioning: 220 Volt - 50 Hz.

model	IN/OUT connections	vessel material	treating chamber material	control panel	flow rate l/h	electrical absorption watt	mm	
							A	B
UV PL 120	1/4" quick-fit	plastic	stainless steel	no	120	4	215	60
UV PL 240	1/4" quick-fit	plastic	stainless steel	no	240	6	280	60
UV 300	1/8" male threads	stainless steel	stainless steel	no	300	12	250	40
UV 600	1/2" male threads	stainless steel	stainless steel	no	600	16	400	60
UV 1200 led	3/4" male threads	stainless steel	stainless steel	yes	1200	30	600	60
UV 2800 led	1" male threads	stainless steel	stainless steel	yes	2800	40	900	60



INSTALLATION SCHEME



VARIANTS available on minimum quantity

Sterilizers with stainless steel AISI 316 treatment chamber.

Multi-lamp sterilizers, for higher flow rates.

SPARE PARTS

Quartz coverings.

UV lamps.

◆ **The most extensive range of products** in the water filtration/treatment sector.

◆ **Advice** on all aspects of water treatment, filtration and conditioning.

◆ **Information Bureau** at your service with all the latest technical and commercial information.

◆ **Punctual delivery** to all areas.

◆ **Detailed installation and servicing instructions** provided with all products.

- ▶ **FILTERS SX**
Plastic housings and cartridges with standard flat seals (DOE). Height of models 4", 5", 7", 10", 20".
- ▶ **FILTERS BX**
Plastic housings and cartridges featuring 'quick-fit' connections with 45 mm double O-ring collar. Height of models 5", 7", 10", 20".
- ▶ **FILTERS AX**
Plastic housings and cartridges featuring 'quick-fit' connections with 39,70 mm double O-ring collar. Height of models 5", 7", 10", 20".
- ▶ **FILTERS K**
Brass head housings and cartridges featuring 'quick-fit' connections with double O-ring. Height of models 5", 7", 10", 20".
- ▶ **PROFESSIONAL HOUSINGS AND FILTERS**
Housings with brass head and plastic bowl or stainless steel bowl. Height of models 5" and 10".
Stainless steel housings. Height of models 10".
Multi-cartridge stainless steel housings, for 3, 5, 6 cartridges. Height of models 20", 30", 40".
Manual or automatic self-cleaning and back-washing filters.
Stainless steel basket filters.
- ▶ **ANTI-SCALE SYSTEMS**
Proportional and non-proportional dosing systems with polyphosphate crystals. Height of models 4", 5", 7", 10".
Brass-head proportional dosing systems with polyphosphate powder or with ready-to-use polyphosphate refill. Template models, in-line models, 'T' connection models, models with or without by-pass valve.
Magnetic anti-scale systems.
- ▶ **TECHNO APPLIANCES**
Automatic softeners with timer or volumetric control valves. Models with integrated or with separated brine tank. Capacity of models from 5 to 300 litres.
Automatic iron-removing appliances with timer or volumetric control valves. Capacity of models from 25 to 300 litres.
Automatic chlorine-removing appliances with timer or volumetric control valves. Capacity of models from 25 to 300 litres.
Quartzite sand filters impurity-removing appliances with timer or volumetric control valves. Capacity of models from 25 to 300 litres.
Pumps and products for disincrustation.
UV-lamp units for water sterilization. Flow rate from 120 to 2800 litres/h.



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= ISO 9001:2000 =



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