

## Techno appliances



**SOFTENERS  
IRON REMOVERS  
CHLORINE REMOVERS  
SAND FILTERS  
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.

## 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



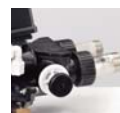
Easy test strips



ATL chlorinator kit (electrodes) for disinfection of resins



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



manual by-pass

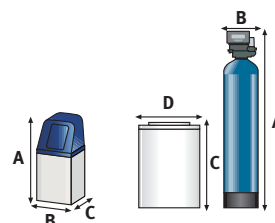
## VARIANTS available

- 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<br>softeners with timer control valve | in/out<br>threads | resin volume<br>litres* | cycle capacity<br>m³/°F | tank volume<br>brine-litres | average brine<br>consumption kg | mm   |     |      |     | recommended<br>flow rate l/h | max<br>flow rate l/h |
|---|-------------------|-------------------------|-------------------------|-----------------------------|---------------------------------|------|-----|------|-----|------------------------------|----------------------|
|   |                   |                         |                         |                             |                                 | A    | B   | C    | D   |                              |                      |
| Jupiter 10 ATL 255                                      | 3/4"              | 10                      | 60                      | 85                          | 1,4                             | 665  | 212 | 790  | 380 | 800                          | 1000                 |
| Jupiter 15 ATL 255                                      | 3/4"              | 15                      | 90                      | 85                          | 2,5                             | 1096 | 189 | 790  | 380 | 900                          | 1100                 |
| Jupiter 30 ATL 255                                      | 3/4"              | 30                      | 180                     | 85                          | 4,3                             | 1096 | 265 | 790  | 380 | 1900                         | 2300                 |
| Jupiter 50 ATL 255                                      | 1"                | 50                      | 300                     | 140                         | 7,3                             | 1580 | 265 | 850  | 600 | 2100                         | 2500                 |
| Jupiter 70 ATL 255                                      | 1"                | 70                      | 420                     | 140                         | 11,3                            | 1580 | 300 | 850  | 600 | 2500                         | 3200                 |
| Jupiter 100 ATL 268                                     | 1"                | 100                     | 600                     | 190                         | 15                              | 1850 | 363 | 1080 | 600 | 3700                         | 4900                 |
| Jupiter 120 ATL 268                                     | 1"                | 120                     | 720                     | 190                         | 19                              | 1850 | 413 | 1080 | 600 | 4100                         | 6500                 |
| Jupiter 150 ATM   | 1-1/2"            | 150                     | 900                     | 340                         | 30                              | 2000 | 486 | 1150 | 635 | 8000                         | 10400                |
| Jupiter 175 ATM   | 1-1/2"            | 175                     | 1050                    | 340                         | 35                              | 2000 | 486 | 1150 | 635 | 8000                         | 10400                |
| Jupiter 200 ATM   | 1-1/2"            | 200                     | 1200                    | 460                         | 40                              | 2350 | 550 | 1150 | 742 | 11000                        | 14000                |
| Jupiter 230 ATM   | 1-1/2"            | 230                     | 1380                    | 460                         | 46                              | 2350 | 550 | 1150 | 742 | 11000                        | 14000                |
| Jupiter 270 ATM   | 1-1/2"            | 270                     | 1620                    | 670                         | 54                              | 2460 | 626 | 1150 | 885 | 12800                        | 16000                |
| Jupiter 300 ATM   | 1-1/2"            | 300                     | 1800                    | 670                         | 58                              | 2460 | 626 | 1150 | 885 | 12800                        | 16000                |

| JUPITER CAB ATL<br>softeners with timer control valve | in/out<br>threads | resin volume<br>litres* | cycle capacity<br>m³/°F | average brine<br>consumption kg | mm   |     |     | recommended<br>flow rate l/h | max<br>flow rate l/h |
|---|-------------------|-------------------------|-------------------------|---------------------------------|------|-----|-----|------------------------------|----------------------|
|   |                   |                         |                         |                                 | A    | B   | C   |                              |                      |
| Jupiter CAB 10 ATL                                    | 3/4"              | 10                      | 60                      | 1,4                             | 665  | 320 | 480 | 800                          | 1000                 |
| Jupiter CAB 15 ATL                                    | 3/4"              | 15                      | 90                      | 2,5                             | 1130 | 320 | 480 | 900                          | 1100                 |
| Jupiter CAB 30 ATL                                    | 3/4"              | 30                      | 180                     | 4,3                             | 1130 | 320 | 480 | 1900                         | 2300                 |

| JUPITER AVL - AVM<br>softeners with volumetric<br>control valve | in/out<br>threads | resin volume<br>litres* | cycle capacity<br>m³/°F | tank volume<br>brine- litres | average brine<br>consumption kg | mm   |     |      |     | recommended<br>flow rate l/h | max<br>flow rate l/h |
|---|-------------------|-------------------------|-------------------------|------------------------------|---------------------------------|------|-----|------|-----|------------------------------|----------------------|
|   |                   |                         |                         |                              |                                 | A    | B   | C    | D   |                              |                      |
| Jupiter 10 AVL 255  | 3/4"              | 10                      | 60                      | 85                           | 1,4                             | 665  | 212 | 790  | 380 | 800                          | 1000                 |
| Jupiter 15 AVL 255  | 3/4"              | 15                      | 90                      | 85                           | 2,5                             | 1056 | 189 | 790  | 380 | 900                          | 1100                 |
| Jupiter 30 AVL 255  | 3/4"              | 30                      | 180                     | 85                           | 4,3                             | 1096 | 265 | 790  | 380 | 1900                         | 2300                 |
| Jupiter 50 AVL 255  | 1"                | 50                      | 300                     | 140                          | 7,3                             | 1580 | 265 | 850  | 600 | 2100                         | 2500                 |
| Jupiter 70 AVL 255  | 1"                | 70                      | 420                     | 140                          | 11,3                            | 1580 | 300 | 850  | 600 | 2500                         | 3200                 |
| Jupiter 100 AVL 268   | 1"                | 100                     | 600                     | 190                          | 15                              | 1850 | 363 | 1080 | 600 | 3700                         | 4900                 |
| Jupiter 120 AVL 268   | 1"                | 120                     | 720                     | 190                          | 19                              | 1850 | 413 | 1080 | 600 | 4100                         | 6500                 |
| Jupiter 150 AVM   | 1-1/2"            | 150                     | 900                     | 340                          | 30                              | 2000 | 486 | 1150 | 635 | 8000                         | 10400                |
| Jupiter 175 AVM   | 1-1/2"            | 175                     | 1050                    | 340                          | 35                              | 2000 | 486 | 1150 | 635 | 8000                         | 10400                |
| Jupiter 200 AVM   | 1-1/2"            | 200                     | 1200                    | 460                          | 40                              | 2350 | 550 | 1150 | 742 | 11000                        | 14000                |
| Jupiter 230 AVM   | 1-1/2"            | 230                     | 1380                    | 460                          | 46                              | 2350 | 550 | 1150 | 742 | 11000                        | 14000                |
| Jupiter 270 AVM   | 1-1/2"            | 270                     | 1620                    | 670                          | 54                              | 2460 | 626 | 1150 | 885 | 12800                        | 16000                |
| Jupiter 300 AVM   | 1-1/2"            | 300                     | 1800                    | 670                          | 58                              | 2460 | 626 | 1150 | 885 | 12800                        | 16000                |

| JUPITER CAB AVL<br>softeners with volumetric control valve | in/out<br>threads | resin volume<br>litres* | cycle capacity<br>m³/°F | average brine<br>consumption kg | mm   |     |     | recommended<br>flow rate l/h | max<br>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                      | 2,4                             | 665  | 320 | 480 | 800                          | 1000                 |
| Jupiter CAB 15 AVL   | 3/4"              | 15                      | 90                      | 2,5                             | 1130 | 320 | 480 | 900                          | 1100                 |
| Jupiter CAB 30 AVL   | 3/4"              | 30                      | 180                     | 4,3                             | 1130 | 320 | 480 | 1900                         | 2300                 |

| JUPITER DUPLEX AV - AVM<br>duplex softeners with 2 volumetric<br>control valve | in/out<br>threads | resin volume<br>litres* | cycle capacity<br>m³/°F | tank volume<br>brine- litres | average brine<br>consumption kg | mm   |     |      |     | recommended<br>flow rate l/h | max<br>flow rate l/h |
|--|-------------------|-------------------------|-------------------------|------------------------------|---------------------------------|------|-----|------|-----|------------------------------|----------------------|
|  |                   |                         |                         |                              |                                 | A    | B   | C    | D   |                              |                      |
| Jupiter Duplex 40 AV 255   | 1"                | 40                      | 240                     | 2 x 85                       | 5,8                             | 1580 | 265 | 850  | 600 | 2000                         | 2400                 |
| Jupiter Duplex 75 AV 255   | 1"                | 75                      | 450                     | 2 x 140                      | 12                              | 1580 | 300 | 850  | 600 | 2600                         | 3400                 |
| Jupiter Duplex 75 AV 278   | 1"                | 75                      | 450                     | 2 x 140                      | 12                              | 1580 | 300 | 850  | 600 | 2600                         | 3400                 |
| Jupiter Duplex 100 AV 278  | 1"                | 100                     | 600                     | 2 x 190                      | 15                              | 1850 | 363 | 1080 | 600 | 3700                         | 4900                 |
| Jupiter Duplex 100 AVM   | 1-1/2"            | 100                     | 600                     | 2 x 190                      | 15                              | 1850 | 363 | 1080 | 600 | 3700                         | 4900                 |
| Jupiter Duplex 125 AV 278  | 1"                | 125                     | 750                     | 2 x 190                      | 20                              | 1850 | 413 | 1080 | 600 | 4200                         | 6800                 |
| Jupiter Duplex 125 AVM   | 1-1/2"            | 125                     | 750                     | 2 x 190                      | 20                              | 1850 | 413 | 1080 | 600 | 4200                         | 6800                 |
| Jupiter Duplex 150 AV 278  | 1"                | 150                     | 900                     | 2 x 340                      | 30                              | 2000 | 486 | 1150 | 635 | 8000                         | 10400                |
| Jupiter Duplex 150 AVM   | 1-1/2"            | 150                     | 900                     | 2 x 340                      | 30                              | 2000 | 486 | 1150 | 635 | 8000                         | 10400                |
| Jupiter Duplex 200 AV 278  | 1"                | 200                     | 1200                    | 2 x 460                      | 40                              | 2350 | 550 | 1150 | 742 | 11000                        | 14000                |
| Jupiter Duplex 200 AVM   | 1-1/2"            | 200                     | 1200                    | 2 x 460                      | 40                              | 2350 | 550 | 1150 | 742 | 11000                        | 14000                |
| Jupiter Duplex 300 AVM   | 1-1/2"            | 300                     | 1800                    | 2 x 670                      | 58                              | 2460 | 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.

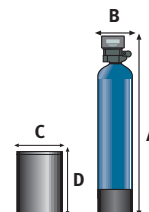
## REFILL

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<br>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                        | 1580 | 265 | 800                       | 1200              |
| Mars PRL 75 ATL 263   | 1"             | 75                        | 1580 | 330 | 1300                      | 1900              |
| Mars PRL 100 ATL 263  | 1"             | 100                       | 1850 | 363 | 1500                      | 2200              |
| Mars PRL 125 ATL 263  | 1"             | 125                       | 1850 | 413 | 2000                      | 2900              |
| Mars PRL 150 ATL 263  | 1"             | 150                       | 2000 | 486 | 2500                      | 3600              |
| Mars PRL 200 ATL 263  | 1"             | 200                       | 2350 | 550 | 3400                      | 5000              |
| Mars PRL 200 ATM  | 1-1/2"         | 200                       | 2350 | 550 | 3400                      | 5000              |
| Mars PRL 300 ATM  | 1-1/2"         | 300                       | 2460 | 626 | 3400                      | 6500              |

| MARS PRL AVL - AVM<br>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                        | 1580 | 265 | 800                       | 1200              |
| Mars PRL 75 AVL 263  | 1"             | 75                        | 1580 | 330 | 1300                      | 1900              |
| Mars PRL 100 AVL 263   | 1"             | 100                       | 1850 | 363 | 1500                      | 2200              |
| Mars PRL 125 AVL 263   | 1"             | 125                       | 1850 | 413 | 2000                      | 2900              |
| Mars PRL 150 AVL 263   | 1"             | 150                       | 2000 | 486 | 2500                      | 3600              |
| Mars PRL 200 AVL 263   | 1"             | 200                       | 2350 | 550 | 3400                      | 5000              |
| Mars PRL 200 AVM   | 1-1/2"         | 200                       | 2350 | 550 | 3400                      | 5000              |
| Mars PRL 300 AVM   | 1-1/2"         | 300                       | 2460 | 626 | 3400                      | 6500              |

| MARS BRM ATL - ATM<br>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                  | 1580 | 265 | 800                       | 1200              |
| Mars BRM 75 ATL 263   | 1"             | 75                  | 1580 | 330 | 1300                      | 1900              |
| Mars BRM 100 ATL 263  | 1"             | 100                 | 1850 | 363 | 1500                      | 2200              |
| Mars BRM 125 ATL 263  | 1"             | 125                 | 1850 | 413 | 2000                      | 2900              |
| Mars BRM 150 ATL 263  | 1"             | 150                 | 2000 | 486 | 2500                      | 3600              |
| Mars BRM 200 ATL 263  | 1"             | 200                 | 2350 | 550 | 3400                      | 5000              |
| Mars BRM 200 ATM  | 1-1/2"         | 200                 | 2350 | 550 | 3400                      | 5000              |
| Mars BRM 300 ATM  | 1-1/2"         | 300                 | 2460 | 626 | 3400                      | 6500              |

| MARS BRM AVL - AVM<br>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                  | 1580 | 265 | 800                       | 1200              |
| Mars BRM 75 AVL 263  | 1"             | 75                  | 1580 | 330 | 1300                      | 1900              |
| Mars BRM 100 AVL 263   | 1"             | 100                 | 1850 | 363 | 1500                      | 2200              |
| Mars BRM 125 AVL 263   | 1"             | 125                 | 1850 | 413 | 2000                      | 2900              |
| Mars BRM 150 AVL 263   | 1"             | 150                 | 2000 | 486 | 2500                      | 3600              |
| Mars BRM 200 AVL 263   | 1"             | 200                 | 2350 | 550 | 3400                      | 5000              |
| Mars BRM 200 AVM   | 1-1/2"         | 200                 | 2350 | 550 | 3400                      | 5000              |
| Mars BRM 300 AVM   | 1-1/2"         | 300                 | 2460 | 626 | 3400                      | 6500              |

| MARS GS ATL<br>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                        | 1580 | 265 | 420 | 266 | 800                       | 1200              |
| Mars GS 75 ATL 263   | 1"             | 75                        | 1580 | 330 | 420 | 266 | 1300                      | 1900              |
| Mars GS 100 ATL 263  | 1"             | 100                       | 1850 | 363 | 420 | 266 | 1500                      | 2200              |
| Mars GS 125 ATL 263  | 1"             | 125                       | 1850 | 413 | 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.

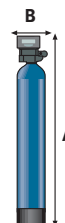
## VARIANTS available

**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<br>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                    | 1580 | 265 | 800                   | 1100              |
| Venus 75 ATL 263  | 1"             | 75                    | 1580 | 330 | 1400                  | 1800              |
| Venus 100 ATL 263   | 1"             | 100                   | 1850 | 363 | 1600                  | 2100              |
| Venus 125 ATL 263   | 1"             | 125                   | 1850 | 413 | 2100                  | 2800              |
| Venus 150 ATL 263   | 1"             | 150                   | 2000 | 486 | 2600                  | 3500              |
| Venus 200 ATL 263   | 1"             | 200                   | 2350 | 550 | 3600                  | 4700              |
| Venus 200 ATM   | 1 1/2"         | 200                   | 2350 | 550 | 3600                  | 4700              |
| Venus 300 ATM   | 1 1/2"         | 300                   | 2460 | 626 | 4700                  | 6200              |

| VENUS AVL - AVM<br>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                    | 1580 | 265 | 800                   | 1100              |
| Venus 75 AVL 263   | 1"             | 75                    | 1580 | 330 | 1400                  | 1800              |
| Venus 100 AVL 263  | 1"             | 100                   | 1850 | 363 | 1600                  | 2100              |
| Venus 125 AVL 263  | 1"             | 125                   | 1850 | 413 | 2100                  | 2800              |
| Venus 150 AVL 263  | 1"             | 150                   | 2000 | 486 | 2600                  | 3500              |
| Venus 200 AVL 263  | 1"             | 200                   | 2350 | 550 | 3600                  | 4700              |
| Venus 200 AVM  | 1 1/2"         | 200                   | 2350 | 550 | 3600                  | 4700              |
| Venus 300 AVM  | 1 1/2"         | 300                   | 2460 | 626 | 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

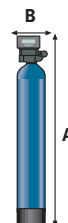
**FT** Filters with valve Fleck with timer.

**FV** Filters with volumetric valve Fleck.

## REFILL

Quartzite, package of 25 kg.





# quartzite filters Sand range of products

| Sand ATL - ATM<br>filters with timer control valve | in/out<br>threads | quartzite volume<br>litres* | mm   |     | nominal<br>flow rate l/h | max<br>flow rate l/h |
|--|-------------------|-----------------------------|------|-----|--------------------------|----------------------|
|  |                   |                             | A    | B   |                          |                      |
| Sand 25 ATL 263                                    | 1"                | 25                          | 1320 | 205 | 500                      | 700                  |
| Sand 50 ATL 263                                    | 1"                | 50                          | 1580 | 265 | 800                      | 1100                 |
| Sand 75 ATL 263                                    | 1"                | 75                          | 1580 | 330 | 1400                     | 1800                 |
| Sand 100 ATL 263                                   | 1"                | 100                         | 1850 | 363 | 1600                     | 2100                 |
| Sand 125 ATL 263                                   | 1"                | 125                         | 1850 | 413 | 2100                     | 2800                 |
| Sand 150 ATL 263                                   | 1"                | 150                         | 2000 | 486 | 2600                     | 3500                 |
| Sand 200 ATL 263                                   | 1"                | 200                         | 2350 | 550 | 3600                     | 4700                 |
| Sand 200 ATM                                       | 1 1/2"            | 200                         | 2350 | 550 | 3600                     | 4700                 |
| Sand 300 ATM                                       | 1 1/2"            | 300                         | 2460 | 626 | 4700                     | 6200                 |

| Sand AVL - AVM<br>filters with volumetric control valve | in/out<br>threads | quartzite volume<br>litres* | mm   |     | nominal<br>flow rate l/h | max<br>flow rate l/h |
|---|-------------------|-----------------------------|------|-----|--------------------------|----------------------|
|   |                   |                             | A    | B   |                          |                      |
| Sand 25 AVL 263   | 1"                | 25                          | 1320 | 205 | 500                      | 700                  |
| Sand 50 AVL 263   | 1"                | 50                          | 1580 | 265 | 800                      | 1100                 |
| Sand 75 AVL 263   | 1"                | 75                          | 1580 | 330 | 1400                     | 1800                 |
| Sand 100 AVL 263  | 1"                | 100                         | 1850 | 363 | 1600                     | 2100                 |
| Sand 125 AVL 263  | 1"                | 125                         | 1850 | 413 | 2100                     | 2800                 |
| Sand 150 AVL 263  | 1"                | 150                         | 2000 | 486 | 2600                     | 3500                 |
| Sand 200 AVL 263  | 1"                | 200                         | 2350 | 550 | 3600                     | 4700                 |
| Sand 200 AVM  | 1 1/2"            | 200                         | 2350 | 550 | 3600                     | 4700                 |
| Sand 300 AVM  | 1 1/2"            | 300                         | 2460 | 626 | 4700                     | 6200                 |

\*Remark - Models with higher volume available on request.

# 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

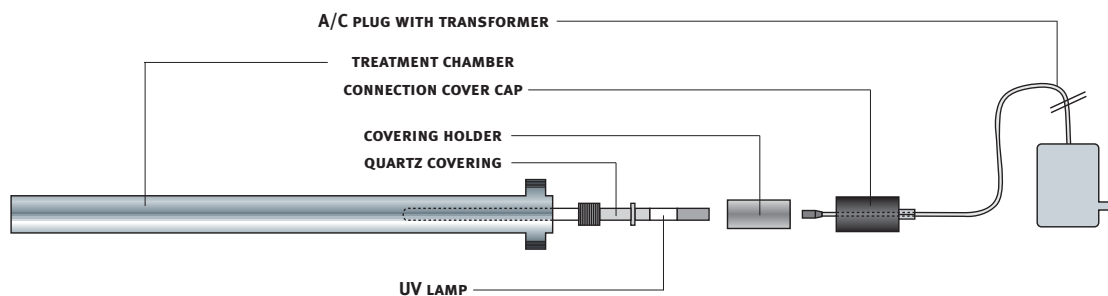
Non-toxic materials, suitable for drinking water.

**Treating chamber:** bright stainless steel AISI 304.

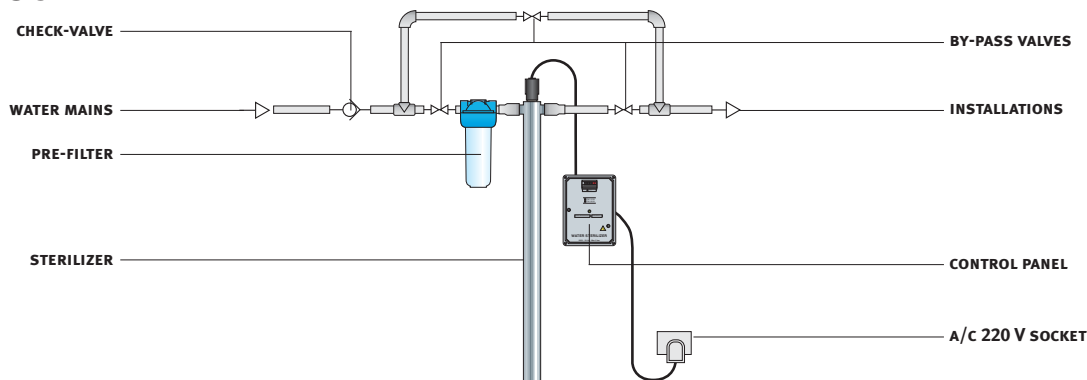
**UV lamp radiation energy:** > 30000 mWsec/cm<sup>2</sup>.

**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 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".
- ▶ **HYDROS**  
Multi-cartridge stainless steel housings, for 3, 5, 6 cartridges. Height of models 20", 30", 40".
- ▶ **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.  
UV-lamp units for water sterilization. Flow rate from 120 to 2800 litres/h.



**ATLAS FILTRI s.r.l.**  
via del Santo, 227  
I-35010 LIMENA (Italy)  
tel. +39 049 76 90 55  
fax +39 049 76 99 94  
www.atlasfiltri.com  
e-mail: atlas@atlasfiltri.com

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**ATLAS FILTRI**<sup>®</sup>  
improving water