INSTRUCTIONS FOR AUTOMATIC PRESSURE BOOSTER PUMP

The automatic pressure switch is governed by the water pressure in the pipe line
The 5-way connector holds the pressure switch and pressure guage and the hydrosphere screws on top (see diagram below)
The water inlet (25mm) is connected to the front of the pump, and the outlet to the side of the 5-way connector, directly opposite the pressure guage just below the hydrosphere
Non-Return Valve must be installed on outlet of pump underneath 5-way connector
Connect inlet and outlet and the electrical connection to the pressure switch
The pump will start when electricity is switched on, and electricity must remain on. The pump will normally switch off automatically at a pressure of 2.8 Bar (280Kpa) when all taps on outlet side are turned off.
When taps are opened, and the pressure drop to 1.4 Bar (140 Kpa), the pump will automatically switch on, thus boosting the pressure in the pipeline.
The electric wires from the motor are connected to the two centres screws of the pressure switch and earth wire (green & yellow) to earth screw. Electricity supply to the two outside screws and earth wire to earth.
Air pressure in hydrosphere must be checked without water pressure (there must be no water in the hydrosphere) and should be equal to the cut-pressure on the water pressure guage.

IT IS VERY IMPORTANT TO HAVE THE CORRECT AIR PRESSURE IN THE HYDROSPHERE! NB: DO NOT ADJUST ANYTHING
Pressure switch is factory set from 1.4 Bar (140Kpa) to 2.8 Bar (280 Kpa). Air pressure in the hydrosphere is correctly set in relation to pressure switch setting.

**CMB SERIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rate</th>
<th>Voltage</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMB100</td>
<td>250L/Min</td>
<td>220V - 380V</td>
<td>1.7 Bar</td>
</tr>
<tr>
<td>CMB150</td>
<td>250L/Min</td>
<td>220V - 380V</td>
<td>2.5 Bar</td>
</tr>
<tr>
<td>CMB200</td>
<td>250L/Min</td>
<td>220V - 380V</td>
<td>3.1 Bar</td>
</tr>
<tr>
<td>CMB300</td>
<td>250L/Min</td>
<td>380V</td>
<td>3.6 Bar</td>
</tr>
<tr>
<td>CMB400</td>
<td>250L/Min</td>
<td>380V</td>
<td>4.7 Bar</td>
</tr>
<tr>
<td>CMB550</td>
<td>250L/Min</td>
<td>380V</td>
<td>5.9 Bar</td>
</tr>
</tbody>
</table>

**MD SERIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rate</th>
<th>Voltage</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD40</td>
<td>600L/Min</td>
<td>220V - 380V</td>
<td></td>
</tr>
<tr>
<td>MD50</td>
<td>1000L/Min</td>
<td>220V - 380V</td>
<td></td>
</tr>
<tr>
<td>MD65</td>
<td>2000L/Min</td>
<td>220V - 380V</td>
<td></td>
</tr>
</tbody>
</table>

**AVAILABLE ACCESSORIES**

- Changeable Bladder
- Pressure Gauges
- 5-Way Connectors
- Non-Return Valves
AUTOMATIC PRESSURE BOOSTER PUMP

- Automatic Water Pressure Up to 5 Bar
- Adjustable to obtain desired water pressure
- Essential for Multi-storey homes
- Enjoy High Water Pressure & Fast Flow
- Cheap - Economical
- Compact Unit - Motor Centrifugal Pump, Automatic Pressure Switch
- Easy Installation
- Replaces High Cost of Reservoir Stands
- Reliable, Trouble-Free Working - **Guaranteed**

PRESSURE VESSELS

<table>
<thead>
<tr>
<th>Pressure Vessels (Hydrocell):</th>
<th>Price (Excl VAT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24L</td>
<td>R560.00</td>
</tr>
<tr>
<td>60L</td>
<td>R1880.00</td>
</tr>
<tr>
<td>100L</td>
<td>R3580.00</td>
</tr>
<tr>
<td>200L</td>
<td>R4960.00</td>
</tr>
<tr>
<td>300L</td>
<td>R5440.00</td>
</tr>
<tr>
<td>500L</td>
<td>R9280.00</td>
</tr>
</tbody>
</table>
Nimbus Water Technologies – SA Pty Ltd
Technical – MD & CM Series Automatic Pressure Booster Pumps

Model STM400 - 220/380 Volt
Pump & Motor Only
300L / min - max 5 bar

Model STM1200 - 220 Volt
Pump & Motor Only
500L / min - max 3 bar

COMPLETE PRESSURE PUMPS & HYDRO KIT

Model 1 - 40L / min
R2400.00(Excl VAT)

Model 3 - 100L / min
R3200.00(Excl VAT)

Model 4 - 170L / min
R4200.00(Excl VAT)

CMB SERIES
### Nimbus Water Technologies – SA Pty Ltd
#### Technical – MD & CM Series Automatic Pressure Booster Pumps

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Rate</th>
<th>Voltage</th>
<th>Pressure Bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMB100</td>
<td>250L/Min</td>
<td>220V - 380V</td>
<td>1.7</td>
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**Available Accessories**

- Changeable Bladder
- Pressure Gauges
- 5-Way Connectors
- Non-Return Valves

**MASCONI Pressure Pumps** – [www.nimbuswater.co.za](http://www.nimbuswater.co.za)

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PRESSURE PUMPS

Aqua Model 3 STM 100 Pump
Complete with 24 litre Hydro, Guage, Pressure Switch and Non Return Valve with 5-Way Connector
Capacity: 100 litres / min

Aqua Model 1 STM 50 Pump
Complete With 24 litre Hydro, Guage, Pressure Switch And Non Return Valve With 5-Way Connector
Capacity: 40 litres / min

Aqua Filter Pump STM 50 High Volume Low Pressure Pump with Press Set Pump Control - Capacity: 120 litres / min
Nimbus Water Technologies – SA Pty Ltd
Technical – MD & CM Series Automatic Pressure Booster Pumps

Quality Swimming Pool Pump
- .60 Kw R2680.00(Excl VAT)
- .75 Kw R2880.00(Excl VAT)
- 1.1 Kw R3280.00(Excl VAT)
- 1.5 Kw R4280.00(Excl VAT)

Aquamat "Easy" And "Ecosub" Sump Pumps Various Sizes - With Or Without Float Switch

EXFETRON IRON AND METAL REMOVAL FILTERS
- Iron, manganese and other metals in water can cause problems regarding:
  - Stains on walls, baths, showers and tiles
  - Damage to plants & Soil
  - Clogging of pipelines due to bacteria growth
  - Problems caused in dairies, etc.

FROM R8400.00(Excl.VAT)

- Exfetron is developed as a supreme anti-oxidant capable of removing these metals by oxidation
- The media has a long life (10 to 20 years) and only requires frequent backwash

Nimbus Water Pty Ltd
info@nimbuswater.co.za I www.nimbuswater.co.za
Nimbus Water Technologies – SA Pty Ltd
Technical – MD & CM Series Automatic Pressure Booster Pumps

- A 100 And A 150 Low Pressure Exfetron Iron Removal Filters
  - Manual Backwash
- High Pressure, Automatic Backwash Filter Housing where required
- Exfetron Is A Electrolytic Manganese Dioxide With High Capacity To Remove Iron, Manganese And Other Heavy Metals

COMPACT WATER FILTERS & PURIFIERS
MOUNTED ON STAINLESS STEEL BRACKETS & PAINTED STEEL SKIDS

Water Filters

**BB10**
- 10" BB Sediment & 10" Activated Carbon Filter complete with cartridges
  - Filters down to 20 micron
  - Removes Chlorine, taste, odour & colour
  - Flowrate up to 5000 l/hr
  - R2995.00 (Excl.VAT)

**BB10S**
- 10" BB Stiro upflow Filter & 20" BB Activated Carbon Filter complete with cartridges
  - Filters down to 20 micron
  - Extra protection Stiro upflow filter
  - Removes Chlorine, taste, odour & colour
  - Flowrate up to 5000 l/hr

**BB20**
- 20" BB Sediment & 20" BB Activated Carbon Filter complete with cartridges
  - Filters down to 20 micron
  - Removes Chlorine, taste, odour & colour
  - Flowrate up to 10 000 l/hr
  - R5400.00 (Excl.VAT)
Nimbus Water Technologies – SA Pty Ltd
Technical – MD & CM Series Automatic Pressure Booster Pumps

**BB20S**

20" BB Stiro upflow Filter, 10" BB Cartridge Filter & 10" BB Activated Carbon Filter

- Filters down to 20 micron
- Extra protection Stiro upflow filter
- Removes Chlorine, taste, odour & colour
- Flowrate up to 10 000 lt/hr

**Purifiers**

**PS10**

10" BB Stiro upflow pre-filter, 10" BB 20 micron Sediment Filter, 10" BB Activated Carbon Filter mounted on Stainless Steel Bracket

- Omni In-line Dosing Unit with by-pass manifold
- PVC flocculation manifold fitted with automatic mixers
- All mounted on painted Steel Skid
- Flowrate up to 5000 lt/hr
- Cleans and sterilizes any dam, river or borehole water that is not clear
- Kills all germs and bacteria
- Producing clean, bacteria free, tasteless, odourless, chlorine free drinking water
- R9500.00(Excl.VAT)

**PS20**

20" BB Stiro upflow pre-filter, 20" BB micron Sediment Filter, 20" BB Activated Carbon Filter mounted on Stainless Steel Bracket

- Omni In-line Dosing Unit with by-pass manifold
- PVC flocculation manifold fitted with automatic mixers
- All mounted on painted Steel Skid
- Flowrate up to 10 000 lt/hr
- Cleans and sterilizes any dam, river or borehole water that is not clear
- Kills all germs and bacteria
- Producing clean, bacteria free, tasteless, odourless, chlorine free drinking water
- R14500.00(Excl.VAT)
WATER PURIFICATION / FILTERING SYSTEM

For the treatment of:

- River, Dam, Canal Water etc, i.e non-hygenic water that is murky (discoloured) with a muddy sediment.
- Borehole water with odour, colour or taste, e.g sulphur.
- Removal of organic and bacterial contamination.
- Removes iron and manganese.

Crystal clear water is guaranteed with the following treatment:-

Pre-Treatment - Dispenser is included with Filtering System

- The water is pumped into a reservoir tank, so that pre-treatment takes place on the inlet side of the reservoir tank.
- A dispenser is installed in the pipeline just before the reservoir tank, so that the dosing takes place while the reservoir tank is being filled.
- The dosing is done by Chlorine and Flocculent.
- All bacteria and germs are annihilated by the Chlorine.
- Chlorine tablets are supplied in containers of 10 tablets (only 1 tablet and a handful of Aluminium Sulphate will treat +- 10 000 Lt of water) or Sodium Hypo Chloride for dosing by dosing pumps.
- The maintenance cost for domestic purposes +- R10 per week for the chemicals.
- Larger Installations and higher flow rate will use more Chlorine tablets and Flocculent.
- It is advisable to give the water in the tank at least one hour rest before use.
- The reservoir tank should preferably be filled in the evening.

Filters

- A combination of (i) Silica Sand Filter and (ii) AQUA A.C. Filter with Activated Carbon are installed on the OULTET of the reservoir tank in the pipeline to the house or to the end user.
- The Sand Filter filters all roughage before it reaches the Activated Carbon Filter so that the A.C. Filter does not pollute. The A.C. Filter removes colour, odour and taste from water, as well as excess Chlorine.
- Each manual filter is fitted with a multi port valve that has a "backwash", "rinse" and "filter" (service) position that can be set by positioning the handle on the valve.
- The standard filters have 40mm delivery pipes and deliver 9000 L/hr at 1 Bar pressure. Where the reservoir tank is not high enough to give adequate pressure to back wash efficiently, the AQUAMAT Pressure Booster Pump can be installed before the filters to give the proper backwash results. (Refer to Sketch 2 shown below).
Where a large volume of water is required, the filters can be adapted up to the required volume and banks of filters are supplied for large volumes.

Complete automatic systems are also available.

Please note:

- Murky water will need more Flocculent to obtain clear water.
- The Chlorine tablets are for purifying drinking water and are not the same as used in swimming pools. These tablets do not contain the detrimental "TRICHLOROISOCYANURIC" acid stabilizer.

Aqua Standard Filtering System = R16,800.00(Excl.VAT)

Typical Installation Layout to Filter Water to Clear / Hygienic Water for Domestic Use

- At least 1 Bar Water Pressure is required to obtain sufficient backwash on filters otherwise a pressure pump needs to be installed ahead of the filter
- High Pressure Filters should then be used

Installation Instructions for Aqua Sand & Activated Carbon Filters

- Silica Sand Filters & A.C. Filters are installed on the OUTLET of the reservoir tank with the pipeline to the house for end use. The A.C. Filter is installed after the Sand Filter so that the OUTLET of the Sand Filter is connected to the A.C. Filter.
Filter, so that the OUTLET of the Sand Filter is connected to the A.C. Filter.

- Remove the lids of the Filters.
- Let approximately 1/4 water into filters before adding the sand in the Sand Filter and Activated Carbon in the A.C. Filter.
- Close lids.
- Turn lever of multi port valve on BACKWASH for a few minutes and then select RINSE until the water is clear. DO NOT SELECT FILTER (service) UNTIL WATER IS CLEAR.
- Switch to FILTER position for service.

**HINTS**

- The filter pollutes with impurities and must therefore be backwashed regularly.
- The filter can be backwashed through the lid opening whilst that sand is stirred, to improve cleaning results.
- Same applies to the A.C. Filter.

**Options Available**

*Waterco 4 Bar (Fibre Glass) High Pressure Filters*

*Micon 4 Bar - High Pressure Filters*
Nimbus Water Technologies – SA Pty Ltd
Technical – MD & CM Series Automatic Pressure Booster Pumps

Aqua Series (Steel Filters) - Automatic Backwash High Pressure

Pre-treatment

Aqua Low Pressure 2.2 Bar

Aqua High Pressure 4 Bar
Nimbus Water Technologies – SA Pty Ltd
Technical – MD & CM Series Automatic Pressure Booster Pumps

Inline Chlorinators
R1,190.00(Excl.VAT)

Automatic Dosing Pump on 100L Step Down Tank
R4,750.00(Excl.VAT)

LARGE VOLUME WATER FILTERS

SMDD 1400
- 56 Sand Bags
- 80mm Multiport Valve
- Cylinder Size 2.195m x 1.442 dia
R68 000.00(Excl VAT)

SMDD 1200
- 42 Sand Bags
- 80mm Multiport Valve
- Cylinder Size 2.145m x 1.229 dia
R62 000.00(Excl.VAT)

SMDD 900
- 24 Sand Bags
- 80mm Multiport Valve
- Cylinder Size 2.190m x .929 dia
R42 000.00(Excl VAT)

Talk to us first – then shop around

Nimbus Water Pty Ltd
info@nimbuswater.co.za I www.nimbuswater.co.za