FILТАWОРХ® range of fully automatic self cleaning filters have been designed and built in Australia by an experienced team of engineers using the latest 3D CAD software. FILТАWОРХ® filters are one of the most technically innovative self-cleaning filters available, combining proven high performance, reliability and economy in a compact robust design. Features include:

▲ Stainless steel filter body as standard.
▲ All parts are made of corrosion resistant materials.
▲ Fully automatic back flush operation.
▲ Available with hydraulic or electric controls.
▲ Large filtration area.
▲ Wide range of fine screen sizes, 50 to 800 microns.
▲ Standard sizes from DN50 to DN350 (2” – 14”).
▲ Pressure rating of PN10 as standard.
▲ Simple and quick installation.
▲ Full support and after sales service.
▲ Designed, built and tested in Australia.
Advantages of FILTAWORX® Automatic Filters

Stainless Steel body for corrosion resistance in most environments.

Cleaning Mechanism:
The key feature to FILTAWORX® performance and reliability is the use of the escaping backflush water to rotate the internal cleaning mechanism inside the filter vessel. No external motor, mechanism or power is required, reducing the number of moving/wearing parts to a minimum.

Automatic Operation of the self cleaning backflush cycle is achieved when a pre-set pressure drop (40 – 50 kPa) across the filter is reached. 100% cleaning as every spot on the fine screen surface is cleaned with a high velocity, aggressive backflush flow.

No External Power is required (when using the hydraulic controlled filter). All functions are powered by the line pressure only. All controls required come complete with the filter.

Uninterrupted Flow during the backflush cycle.

More Screen Area than any other comparable filter available.

Positive Filtration using a precision 316 stainless steel mesh screen.

Wide Range of Filtration screen sizes available from 50 to 800 micron enabling correct selection for each application. Screens can easily be replaced on-site to alter the degree of filtration if required.

Compact and Simple Installation can be mounted in any position or orientation, with minimal space requirements.

High Reliability due to minimal moving parts, simple design and robust construction make FILTAWORX filters virtually maintenance free.

How FILTAWORX® Works

During normal filtering mode the raw water enters the Inlet of the filter, passes through the Coarse Screen (1), (this removes large debris that may obstruct the lower mechanism). Water then travels to the inside and through the Fine Screen (2) to the Outlet.

The solids in the water are trapped on the Fine Screen (2), eventually causing a pressure drop (DP) across the filter. At a pressure drop of 40 – 50 kPa the Controller (6) activates the cleaning cycle by opening the Flushing Valve (5) to drain (atmosphere).

The interconnection of the Suction Nozzles (4) via the Dirt Collector (3) to the Drain causes a back flushing or ‘vacuum clean’ effect on the Fine Screen (2) with a high velocity suction jet of water from the clean outlet side of the screen, removing the dirt on the screen as it passes through.

The water escaping via the Rotor (7) causes the Dirt Collector and Suction Nozzle assembly (3 & 4) to rotate. The Flushing Valve (5) allows this assembly down the length of the Fine Screen (2) in a spiralling motion, cleaning the entire screen surface area in approximately 5 seconds. The Flushing Valve (5) closes, and returns the mechanism back to its original position, ready for the next cycle. Cleaning also occurs on the return stroke.
Typical Application Areas

Irrigation
For the protection of all types of irrigation systems including: drip, micro jet, sprinkler and golf course irrigation systems, from all types of sources including treated effluent.

Cooling Towers and Process Water
Removal of algae, sludge, pipe scale, process impurities and atmospheric contamination, thereby maximising heat transfer efficiency, reducing maintenance, energy and chemical treatment costs of up to 30-50%. Significant reductions in sludge build-up in basins that sustains and shields legionella bacteria, ensuring a healthier & safer environment.

Surface and Ground Water
For protection of plant and equipment from contamination found in sea, rivers, dams, bores, and other water sources.

Technical Specifications

<table>
<thead>
<tr>
<th>Model No</th>
<th>Nominal Size D</th>
<th>Inlet &amp; Outlet Connectors</th>
<th>Nominal Flow at 2m Head Loss l/sec m³/hr</th>
<th>Filter Area cm²</th>
<th>Dimensions mm</th>
<th>Weight Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>FW 050</td>
<td>2</td>
<td>2&quot; Sockets</td>
<td>7 25 1220</td>
<td></td>
<td>184 198 204 720 560</td>
<td>22 42</td>
</tr>
<tr>
<td>FW 050 - F</td>
<td>2</td>
<td>2&quot; Flanged</td>
<td>7 25 1220</td>
<td></td>
<td>210 210 204 720 575</td>
<td>23 43</td>
</tr>
<tr>
<td>FW 080</td>
<td>3</td>
<td>3&quot; Sockets</td>
<td>14 50 1220</td>
<td></td>
<td>194 213 204 720 575</td>
<td>22 42</td>
</tr>
<tr>
<td>FW 080 - F</td>
<td>3</td>
<td>3&quot; Flanged</td>
<td>14 50 1220</td>
<td></td>
<td>210 210 204 720 575</td>
<td>25 45</td>
</tr>
<tr>
<td>FW 100</td>
<td>4</td>
<td>4&quot; Flanged</td>
<td>22 80 1980</td>
<td></td>
<td>235 315 215 900 690</td>
<td>30 57</td>
</tr>
</tbody>
</table>

Screen sizes available: 50, 80, 100, 120, 150, 200, 400, 800 micron
Flanges available: Table “D” or “E”, ANSI 150 and ISO/DIN
Standard Materials of Construction: 304 Grade St/St Body & other parts, 316 St/St Mesh Fine Screes, Brass, Glass reinforced Nylon, NBR Gate PDM Seals
316 St/St Body available on request

Max Working Pressure: 10 bar (150psi)
Min. Line Pressure required during Flush Cycle: 2 bar (30psi)
Approx Flush Time: 5 - 7 sec, Vol 30 Litres
Max. Working Temp: 65˚C

Equipment Protection
For pump gland seals, bearings, compressors, valves, etc.

Nozzle Protection
Eliminates blocked nozzles, keeping them clean and open thereby reducing maintenance.

Membrane & UV Protection
Removing problem sized solids that reduce the effectiveness of membranes and UV.

Effluent and Water Re-Use
Allows the re-use/recycling of effluent and other poor quality water within water treatment plants, industrial process systems, pulp and paper mills, mines, irrigation etc.

Town Water Supply
Removes algae, organisms, sand and silt from surface water streams, dams, reservoirs and bores, reducing chemical treatment and maintenance costs.
Selecting the Right Filter

Selecting the right FILTAWORX® filter for your particular application is crucial in achieving the best result. We recommend it be done in consultation with your FILTAWORX® dealer or Triangle Waterquip, who have extensive experience and know-how to assist you.

The following information will help you and us make the correct selection.

1. The application and equipment you are protecting.
2. Maximum and minimum flow rate that the filter will need to handle.
3. System operating pressure, and pump details/curve if available.
4. Level of filtration/screen size required.
5. Dirt loading (Total Suspended Solids - TSS) of the water, if known.
6. Type of solids that are present, i.e. sand, algae, paper fibre, etc.
7. Filter control logic other than standard that may be required.
8. Water temperature and any chemical/corrosiveness content if known.

PRESSURE LOSSES FOR VARIOUS FLOW CAPACITIES

IN METRES
FILTAWORX® range of fully automatic self cleaning filters have been designed and built in Australia by an experienced team of engineers using the latest 3D CAD software. FILTAWORX® filters are one of the most technically innovative self-cleaning filters available, combining proven high performance, reliability and economy in a compact robust design. Features include:

▲ Stainless steel filter body as standard.
▲ All parts are made of corrosion resistant materials.
▲ Fully automatic back flush operation.
▲ Available with hydraulic or electric controls.
▲ Large filtration area.
▲ Wide range of fine screen sizes, 50 to 800 microns.
▲ Standard sizes from DN50 to DN350 (2” – 14”).
▲ Pressure rating of PN10 as standard.
▲ Simple and quick installation.
▲ Full support and after sales service.
▲ Designed built and tested in Australia.
Advantages of FILTAWORX® Automatic Filters

Stainless Steel body for corrosion resistance in most environments.

Cleaning Mechanism:
The key feature to FILTAWORX® performance and reliability is the use of the escaping backflush water to rotate the internal cleaning mechanism inside the filter vessel. No external motor, mechanism or power is required, reducing the number of moving/wearing parts to a minimum.

Automatic Operation of the self cleaning backflush cycle is achieved when a pre-set pressure drop (40 – 50 kPa) across the filter is reached. 100% cleaning as every spot on the fine screen surface is cleaned with a high velocity, aggressive backflush flow.

No External Power is required (when using the hydraulic controlled filter). All functions are powered by the line pressure only. All controls required come complete with the filter.

Uninterrupted Flow during the backflush cycle.

More Screen Area than any other comparable filter available.

Positive Filtration using a precision 316 stainless steel mesh screen.

Wide Range of Filtration screen sizes available from 50 to 800 micron enabling correct selection for each application. Screens can easily be replaced on-site to alter the degree of filtration if required.

Compact and Simple Installation can be mounted in any position or orientation, with minimal space requirements.

High Reliability due to minimal moving parts, simple design and robust construction make FILTAWORX filters virtually maintenance free.

How FILTAWORX® Works

During normal filtering mode the raw water enters the Inlet of the filter, passes through the Coarse Screen (1), (the 7 mm perforations remove large debris that may obstruct the lower mechanism). Water then travels to the inside and through the Fine Screen (2) to the Outlet.

The solids in the water are trapped on the Fine Screen (2), eventually causing a pressure drop (DP) across the filter. At a pressure drop of 40 – 50 kPa the Controller (8) activates the cleaning cycle by opening the Flush Valve (5) to drain (atmosphere).

The interconnection of the Suction Nozzles (4) via the Dirt Collector (3) to the Drain causes a back flushing or ‘vacuum clean’ effect on the Fine Screen (2) with a high velocity suction jet of water from the clean side of the screen, removing the dirt on the screen as it passes through.

The water escaping via the Rotor (7) causes the Dirt Collector and Suction Nozzle assembly (3 & 4) to rotate. The Piston (6) moves this assembly down the length of the Fine Screen (2) in a spiralling motion, cleaning the entire screen surface area in approximately 15 seconds. The Flushing Valve (5) closes, and the Piston (6) is returned to its original position, ready for the next cycle. Cleaning also occurs on the return stroke.
Typical Application Areas

Irrigation
For the protection of all types of irrigation systems including: drip, micro jet, sprinkler and golf course irrigation systems, from all types of sources including treated effluent.

Cooling Towers and Process Water
Removal of algae, sludge, pipe scale, process impurities and atmospheric contamination, thereby maximising heat transfer efficiency, reducing maintenance, energy and chemical treatment costs of up to 30-50%. Significant reductions in sludge build-up in basins that sustains and shields legionella bacteria, ensuring a healthier & safer environment.

Surface and Ground Water
For protection of plant and equipment from contamination found in sea, rivers, dams, bores, and other water sources.

Equipment Protection
For pump gland seals, bearings, compressors, valves, etc.

Nozzle Protection
Eliminates blocked nozzles, keeping them clean and open thereby reducing maintenance.

Membrane & UV Protection
Removing problem sized solids that reduce the effectiveness of membranes and UV.

Effluent and Water Re-Use
Allows the re-use/recycling of effluent and other poor quality water within water treatment plants, industrial process systems, pulp and paper mills, mines, irrigation etc.

Town Water Supply
Removes algae, organisms, sand and silt from surface water streams, dams, reservoirs and bores, reducing chemical treatment and maintenance costs.

Technical Specifications

Dimensional Details

<table>
<thead>
<tr>
<th>Model No</th>
<th>Nominal Size D</th>
<th>Nominal Flow at 2m Head Loss</th>
<th>Filter Area cm²</th>
<th>Dimensions mm</th>
<th>Weight Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch mm l/sec m³/hr</td>
<td>A B C E F H L X Y Z</td>
<td>Empty Full</td>
<td>Empty Full</td>
<td></td>
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<tr>
<td>FW 100EX</td>
<td>4 100</td>
<td>28 100 5600</td>
<td>235 900 466 273 229 525 1952 730 360 3650</td>
<td>85 165</td>
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</tr>
<tr>
<td>FW 150</td>
<td>6 150</td>
<td>50 180 5600</td>
<td>270 900 481 325 279 583 2017 780 360 3720</td>
<td>105 215</td>
<td></td>
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<tr>
<td>FW 150EX</td>
<td>6 150</td>
<td>50 180 8115</td>
<td>270 900 844 325 279 583 2380 780 360 4430</td>
<td>115 265</td>
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<tr>
<td>FW 200</td>
<td>8 200</td>
<td>89 320 8115</td>
<td>270 900 966 325 389 583 2612 780 380 4660</td>
<td>130 320</td>
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</tr>
<tr>
<td>FW 250</td>
<td>10 250</td>
<td>111 400 8115</td>
<td>270 900 966 325 392 583 2615 780 400 4660</td>
<td>155 345</td>
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<tr>
<td>FW 250EX</td>
<td>10 250</td>
<td>111 400 10415</td>
<td>310 1100 966 406 682 665 3105 870 420 5310</td>
<td>235 540</td>
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<tr>
<td>FW 300</td>
<td>12 300</td>
<td>167 600 10415</td>
<td>310 1100 966 406 682 665 3105 870 420 5310</td>
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<tr>
<td>FW 350</td>
<td>14 350</td>
<td>250 900 12170</td>
<td>310 1270 966 406 512 665 3105 870 450 5310</td>
<td>285 595</td>
<td></td>
</tr>
</tbody>
</table>

Screen sizes available: 50, 80, 100, 120, 150, 200, 400, 800 micron
Flanges available: Table “D” or “E”; ANSI 150 and ISO/DIN
Standard Materials of Construction: 304 Grade St/St Body & other parts, 316 St/St Mesh Fine Screes, Brass, Glass reinforced Nylon, NBR & EPDM Seals
316 St/St Body available on request

Max Working Pressure: 10 bar (150psi)
Min. Line Pressure required during Flush Cycle: 2 bar (30psi)
Approx Flush Time: 15 - 17 sec, Vol 150 Litres
Max. Working Temp: 65˚C
Selecting the Right Filter

Selecting the right FILTAWORX® filter for your particular application is crucial in achieving the best result. We recommend it be done in consultation with your FILTAWORX® dealer or Triangle Waterquip, who have extensive experience and know-how to assist you.

The following information will help you and us make the correct selection.

1. The application and equipment you are protecting.
2. Maximum and minimum flow rate that the filter will need to handle.
3. System operating pressure, and pump details/curve if available.
4. Level of filtration/screen size required.
5. Dirt loading (Total Suspended Solids - TSS) of the water, if known.
6. Type of solids that are present, i.e. sand, algae, paper fibre, etc.
7. Filter control logic other than standard that may be required.
8. Water temperature and any chemical/corrosiveness content if known.

PRESSURE LOSSES FOR VARIOUS FLOW CAPACITIES

TRIANGLE WATERQUIP PTY. LTD.
ABN 31 007 023 323
13 Hinkler Road, Mordialloc, Vic. 3195, Australia
Phone: (03) 9580 2122
Fax: (03) 9580 3131
Email: triangle@trianglewaterquip.com.au
www.trianglewaterquip.com.au
AUSTRALIAN OWNED AND OPERATED
DOSiTEC®
Electromagnetic Diaphragm Injector - Up to 9 l/hr

TRIANGLE now offer the latest design of electromagnetic diaphragm dosing pumps suitable for use in all types of industrial, municipal, water treatment and irrigation applications. Features include:

▲ Units are available with dosing rates adjustable manual, proportional to flow, external 4-20 ma signal and pH or Redox control
▲ Made from chemically resistant materials, PTFE & polypropylene. PVDF, PTFE and St/St heads also available.
▲ Nominal injection flow rates of 2.5, 6 & 9 litres per hour can be selected.
▲ Supplied complete with suction, injection tube and installation accessories.
▲ Compact, robust & heavy duty design.
▲ Simple installation, plugs directly into a wall socket.
▲ Low level on/off switch connection on most models.
▲ Stroke adjustment and automatic de-gassing available as options.
**DOSITEC® Electromagnetic Diaphragm Injector - Up to 9 l/hr**

**Technical Data**

Flow vs Pressure

<table>
<thead>
<tr>
<th>I/h</th>
<th>2</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td>9 l/hr @ 10 bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>6 l/hr @ 7 bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>2.5 l/hr @ 10 bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Power Supply:** 230V 50Hz IP-65
- **Max Flow I/hr:** 2.5, 6, 9
- **Max Pressure - bar:** 10, 7, 10

<table>
<thead>
<tr>
<th>Cat No.</th>
<th>Description</th>
<th>Max Flow L/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOSITEC-MP</td>
<td>0-100% manual control via a potentiometer, with 20% scale button</td>
<td>2.5, 6, 9</td>
</tr>
<tr>
<td>DOSITEC-MD</td>
<td>0-100% manual control via + - buttons, digital display &amp; level switch input</td>
<td>2.5, 6, 9</td>
</tr>
<tr>
<td>DOSITEC-Q</td>
<td>Proportional injection via a pulse water meter, digital display &amp; level switch input</td>
<td>2.5, 6, 9</td>
</tr>
<tr>
<td>DOSITEC-mA</td>
<td>Injection via an external 4-20mA signal, digital display &amp; level switch input</td>
<td>2.5, 6, 9</td>
</tr>
<tr>
<td>DOSITEC-PRC</td>
<td>pH or REDOX regulation, digital display, 4-20mA output &amp; level switch input</td>
<td>2.5, 6, 9</td>
</tr>
<tr>
<td>DOSITEC-MF</td>
<td>Multifunctional unit, manual control, proportional injection via a pulse water meter, 4-20mA signal, clock timer. Digital display with alarms &amp; level switch input</td>
<td>2.5, 6, 9</td>
</tr>
</tbody>
</table>

*Stroke adjustment and automatic de-gassing valve available as options.

**DOSITEC - MP**
Manual regulation 0-100% via potentiometer, with 20% scale button.

**DOSITEC - MD**
Manual regulation 0-100% via + - buttons, digital display with level switch input.

**DOSITEC - Q**
Regulation proportional to flow via a digital signal, e.g. pulse water meter, with level switch input.

**DOSITEC - mA**
Regulation via an external 4-20ma analogue signal, with level switch input

**DOSITEC - PRC**
PpH or REDOX regulation via an on/off relay measuring 0-14/-1400 mV + 1400 mV, with 4-20 mA output, with level switch input.

**DOSITEC - MF**
Multifunctional unit with option of manual control, proportional injection, 4-20mA signal, clock timer with alarms and level switch input.

---

**AVAILARBLE FROM**

TRIANGLE WATERQUIP PTY. LTD.
ABN 31 007 023 323
17 Hinkler Road,
Mordialloc, Vic. 3195, Australia
Phone: (03) 9580 2122
Fax: (03) 9580 3131
Email: triangle@trianglefiltration.com.au
www.trianglefiltration.com.au
Triangle Waterquip offer a range of high volume injection pumps ranging in flow from 200 – 2000 l/hr. Available in both piston and diaphragm designs, they are suitable for all types of industrial, municipal water treatment and irrigation applications.

Features include:

▲ 0 – 100% thumb wheel adjustment during operation. (Electrofertic via an inverter).
▲ Nominal flow rates from 200 – 2000 l/hr available.
▲ Up to 1200 kPa injection pressure.
▲ Made from chemically resistant materials.
▲ Choice of piston or diaphragm heads.
▲ Compact, robust & heavy duty design.
▲ Simple & easy installation.
▲ Automatic controls can be added for dosing proportional to flow rate, EC level control & pH.
## DOSTEC® & Electrofertic Electric Injectors

### Technical Data

<table>
<thead>
<tr>
<th>Cat No.</th>
<th>Max L/Hr</th>
<th>Description</th>
<th>Max P kPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTEC40-200</td>
<td>200</td>
<td>DOSTEC 40 - 200 l/hr</td>
<td>1100</td>
</tr>
<tr>
<td>DTEC40-240</td>
<td>240</td>
<td>DOSTEC 40 - 240 l/hr</td>
<td>1100</td>
</tr>
<tr>
<td>DTEC40-300</td>
<td>300</td>
<td>DOSTEC 40 - 300 l/hr</td>
<td>700</td>
</tr>
<tr>
<td>DTEC50-330</td>
<td>330</td>
<td>DOSTEC 50 - 330 l/hr</td>
<td>1200</td>
</tr>
<tr>
<td>DTEC50-500</td>
<td>500</td>
<td>DOSTEC 50 - 500 l/hr</td>
<td>1100</td>
</tr>
<tr>
<td>DTEC50-750</td>
<td>750</td>
<td>DOSTEC 50 - 750 l/hr</td>
<td>750</td>
</tr>
<tr>
<td>DTEC50-1000</td>
<td>1000</td>
<td>DOSTEC 50 - 1000 l/hr</td>
<td>550</td>
</tr>
<tr>
<td>60EF-05-05H</td>
<td>1000</td>
<td>Electrofertic 500 + 500 l/hr</td>
<td>1200</td>
</tr>
<tr>
<td>60EF-07-05H</td>
<td>1250</td>
<td>Electrofertic 750 + 500 l/hr</td>
<td>800</td>
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<tr>
<td>60EF-07-07H</td>
<td>1500</td>
<td>Electrofertic 750 + 750 l/hr</td>
<td>800</td>
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<tr>
<td>60EF-10-05H</td>
<td>1500</td>
<td>Electrofertic 1000 + 500 l/hr</td>
<td>600</td>
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<tr>
<td>60EF-10-07H</td>
<td>1750</td>
<td>Electrofertic 1000 + 750 l/hr</td>
<td>600</td>
</tr>
<tr>
<td>60EF-10-10H</td>
<td>2000</td>
<td>Electrofertic 1000 + 1000 l/hr</td>
<td>600</td>
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<tr>
<td>DTEC40-100D</td>
<td>100</td>
<td>DOSTEC 40 - 100 l/hr diaphragm</td>
<td>800</td>
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<tr>
<td>DTEC40-200D</td>
<td>200</td>
<td>DOSTEC 40 - 200 l/hr diaphragm</td>
<td>800</td>
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<tr>
<td>DTEC40-340D</td>
<td>340</td>
<td>DOSTEC 40 - 340 l/hr diaphragm</td>
<td>500</td>
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<tr>
<td>DTEC50-700D</td>
<td>700</td>
<td>DOSTEC 50 - 700 l/hr diaphragm</td>
<td>700</td>
</tr>
<tr>
<td>DTEC50-1000D</td>
<td>1000</td>
<td>DOSTEC 50 - 1000 l/hr diaphragm</td>
<td>500</td>
</tr>
</tbody>
</table>

▲ Power requirements: 415 VAC 3 phase, 0.75 kW, 1.9 amps.
▲ Optional controls for proportional injection to flow rate, EC and pH using the Compact V controller and inverter.
▲ Electrofertic dual head units for flows of 1000-2000 l/hr require an inverter for adjusting the flow rates.

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**COMPACT V CONTROLLER & INVERTER**

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**ELECTROFERTIC Dual Head Unit**

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**AVAILABLE FROM**