### Key Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>What It Gives You</th>
<th>Benefits For You</th>
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</thead>
<tbody>
<tr>
<td>Optimised hydraulic chamber design</td>
<td>Maximum water treatment at highest efficiency</td>
<td>Up to 60% lower power use than other systems</td>
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<td>Single lamp</td>
<td>Lower power use than comparative multi-lamp systems</td>
<td>Saves money on lifecycle costs</td>
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<td>Lower maintenance costs compared to many multi-lamp systems</td>
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<td>UVGuard patented technology</td>
<td>Eyelid shutter shields you from escaping UV rays from the chamber</td>
<td>Allows safe verification of UV sensor without interrupting production</td>
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<td>Stepless electronic ballast</td>
<td>Allows ballast power to be adjusted from 100 to 30% to optimise process conditions</td>
<td>Saves power during production</td>
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<td>Hanovia’s medium pressure lamp technology</td>
<td>Effective against all microbes including chlorine-resistant Cryptosporidium and Giardia</td>
<td>Effective disinfection</td>
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<td>Prolongs life of filter membrane technologies</td>
<td>Does not affect taste and colour of final product</td>
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<td>Designed for the food and beverage industry</td>
<td>Wetted parts use food grade approved materials</td>
<td>Fit for purpose</td>
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<td>*H edition designed for hygienic use with high specification internal finish</td>
<td>Only pay for a high specification chamber if you need it</td>
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<td>DVGW calibrated dry UV sensor</td>
<td>Allows accurate measurement of UV performance with ability to verify UV sensor without interrupting production</td>
<td>Optimum process security</td>
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<td>Improved performance awareness for operator prevents unplanned downtime</td>
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*See separate data sheet*
All dimensions are approximate for clearance purposes only. Hanovia has a policy of continuous product development, exact drawings are available on request. All specifications are subject to change without notification. Your distributor or Hanovia account manager can advise on correct design and specification requirements.

UV CHAMBER

Material: SS 316L / 1.4404
Internal finish: As made pipe and tube, welds as last electro-polished and passivated
External finish: RSEN 10048-2 or 10048-3, 1J or 2J and ASTM No 4
Process (makeup) connections: Flange DN series PN16 rated
Drain connection: Tri-clamp blanked off
End plate: Removable end plate
Degree of electrical protection: IP65 equivalent to NEMA 4 but not for outside use
Arc tube (lamp): Medium pressure
Arc tube enclosure: Pure quartz
Number of arc tubes (lamps): 1
Expected lamp life: 9000 hours
Temperature sensor: Yes
UV sensor: Pre-calibrated DVGW compliant dry sensor with UV Guard window
Working fluid temperature: 0°C to 60°C wiped 0°C to 80°C unwiped
Maximum CIP temperature: 90°C if CIP request acknowledged
Hydrostatically pressure tested: Yes to PED requirements EN13445
Operating / Design pressure: 6 bar
Seals: EPDM Food grade

OPTIONS

Printed Operating Manual and Installation Guides in Chinese, English, French, German and Spanish
Load length: 30 m to chamber from control or ballast
Internal finish: <0.6 µm welds ground out or 0.38 µm welds ground out electro-polished and passivated
Maximum CIP temperature: 130°C if CIP request acknowledged
Chamber Operating pressures: 10 bar and 16 bar
Flange options: Table E, JIS, ANSI 150 and Tri-clamp
Vent: Tri-clamp connection
Bleed: Tri-clamp connection with or without valve
Wiper: Automatic (electrically driven)
Lamp access: Electrical safety cut-out
Cabinet materials: Stainless steel 304 flat roof or 316 sloping roof
Water leak detection: Detects water leaks from quartz thimble (VFC output)
Documentation Support Pack
In-field UV reference sensor kit
Aggressive water packages for 400 ppm to 20000 ppm chloride

CABINET

Material: Polyester coated carbon steel
Degree of protection: IP65 / NEMA 4
Supply voltages: 380 to 480 V 50/60 Hz (2 ph L1, L2)
Operating temperature range: 5°C to 45°C
Relative humidity: <95% non-condensing
Cooling fans: No
Interconnecting cable lengths: 1 m to ballast 10 m to chamber

CUSTOMER OUTPUTS

4-20mA passive outputs: UV Intensity, UV door and temperature
VFC outputs: Lamp ready (enable flow), System running, Common trip, Low UV warning, OK to CIP, System in remote, 3 configurable
24 V dc output: Bleed valve

CUSTOMER INPUTS

4-20mA inputs: Flow meter and Transmittance meter
VFC inputs: Remote start/stop, CIP inhibit, reduce power
24 V dc pulsed input: Start and stop

CUSTOMER COMMUNICATION PORT

Modbus: RS 485

BALLAST

Enclosure material: Plastic and aluminium
Degree of protection: IP65 / NEMA 4
Supply voltages: 380 to 480 V 50/60 Hz (2 ph L1, L2)
Operating temperature range: 5°C to 45°C
Relative humidity: <95% non-condensing
Cooling fans: Yes
Interconnecting cable lengths: 1 m to cabinet 10 m to chamber
Power adjustment: Stepless variable power

APPROVALS

CE marked

Distributed in Australia By:
Fluidquip Australia Pty Ltd
Unit 7/84-90 Old Bathurst Rd
Emu Plains, NSW
Ph: 02 4735 5054
www.fluidquip.com.au

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