

HydroWELL® (the Successor to HydroPUR) Standard B90-I



| ITEM | RATING |
|--|--|
| Water Treatment Assembly | |
| Flow Rate at 400 J/m ² (40 mJ/cm ²) | 33.7l/s (121m ³ /h) |
| Flow Rate at 300 J/m ² (30 mJ/cm ²) | 47.1l/s (170m ³ /h) |
| Flow Rate at 250 J/m ² (25 mJ/cm ²) | 53.9l/s (194m ³ /h) |
| Operating pressure | 0 – 16bar |
| Pressure loss at nom. flow | <100mbar |
| Water temperature | 5 - 30°C |
| Max. ambient temperature | 40°C |
| Inlet/outlet connections | 125mm flanged |
| Material | Stainless Steel 316 |
| Weight empty | 80kg |
| Operating weight | 200kg |
| Control Box | |
| Power supply | 400V/3ph/50Hz |
| Power consumption | 1,300W |
| Enclosure protection | IP54 |
| UV Lamp | |
| Model | Mercury low pressure with indium-amalgam |
| Type | Ecolux 40N |
| Quantity | 10 |
| Serviceable life | 8,000h |
| UV power new lamp | 380W |
| After serviceable life | 247W |

Biological Control by Ultra Violet Disinfection

For the bacterial control of the water system a HydroWELL® ultraviolet disinfecting unit shall be installed.

The location of installation should be determined by the review of the system design by Hydrotec.

The unit shall comprise a housing containing the UV lamps, with a UV sensor fitted as standard. The UV sensor is to provide the user with a continuous UV light intensity indication.

The UV lamps will have a doped quartz glass sleeve to prevent the formation of ozone and nitrates.

The unit shall incorporate a unique internal water flow path to prevent bacterial shadowing. Moreover, a particulate removal filter should be installed upstream of the UV unit to reduce the shadowing effect further as well as to prevent the fouling of the quartz sleeve and UV sensor.

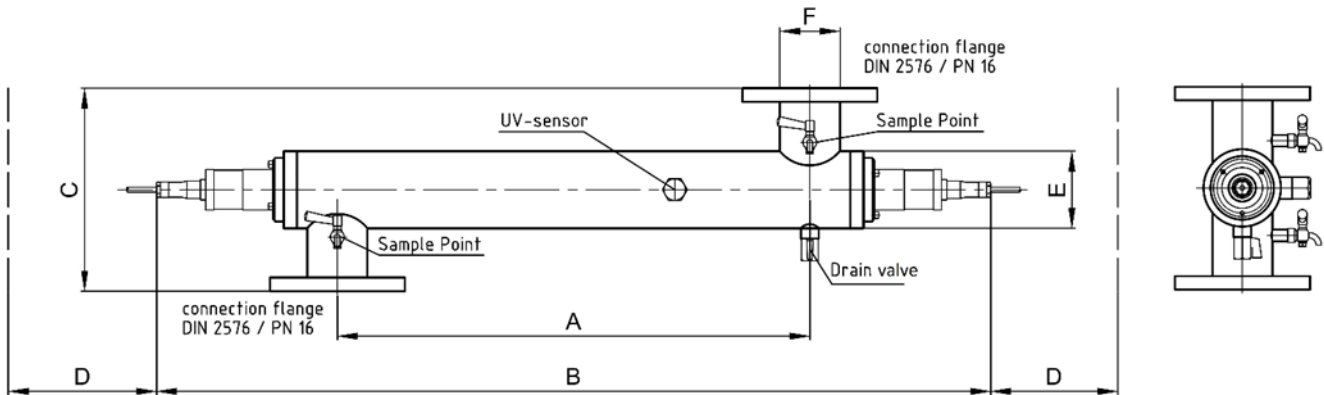
A digital display on the control box shall be provided as standard for a visual representation of the UV intensity as well as operational hours. Volt free connections to a BMS system are provided.

A control box should be connected to a 400V/3ph/50Hz supply through a 5A isolator.

The unit should be independently tested and validated in accordance with BS EN 14897:2006 + A1:2007.

The unit is to be a HydroWELL® Standard B90-I as detailed in adjacent technical data table.

HydroWELL® Standard B90-I



| Standard B90-I | | |
|---------------------------|-----------|---------------------|
| Control box | W x H x D | 1300 x 800 x 300 mm |
| Block Dimensions | | |
| Connection length | A | 850mm |
| Overall length | B | 1450mm |
| Height | C | 500mm |
| Distance | D | >500mm |
| Depth | E | 324mm |
| Inlet/ outlet connections | F | 125mm flanged |

Subject to technical revisions and modifications

Hydrotec
 Hydrotec House
 5 Manor Courtyard
 Hughenden Avenue
 High Wycombe
 Bucks HP13 5RE
 Tel: +44 (0) 1494 796040
 Fax: +44 (0) 1494 796049
 E-mail: sales@hydrotec.co.uk
 Website: www.hydrotec.co.uk