

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



ITEM	RATING
Approval	WRAS
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 system should be WRAS approved.

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.

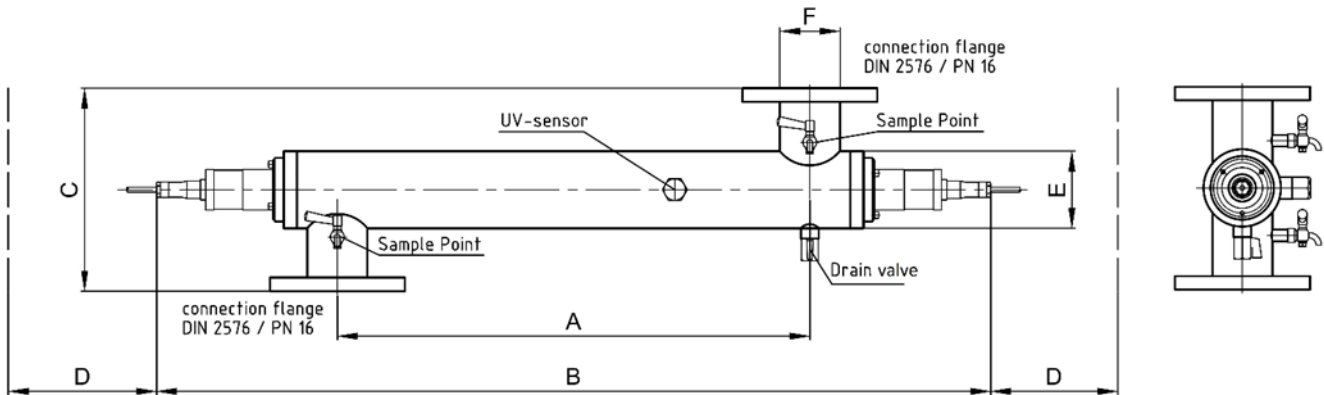
A control box should be connected to a 400V/3ph/50Hz supply through a 5A isolator.

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

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