EWP-US

Technical Data Sheet Hallett[™] 500PN

Potable Water Applications

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Up to 16.5 US gpm (62.5 Lpm)

Maximum 855 mg/L (50 gpg)

Maximum 3 mg/L (3 ppm)

5 - 100 psig (34 - 690 kPa)

34 - 104°F (1 - 40°C)

Min. 40 ml/cm²

Maximum 70%

Minimum 75% UVT

Operating Range

Flow (single unit) UV dose UV Transmittance [UVT] (water) Hardness (water) Iron (water) Temperature (air and water) Water pressure Relative humidity (air)

Electrical/Instrumentation

Voltage Power consumption (nominal) Certifications UV lamps Lamp life (typical) Lamp cycles (recommended) (preheat ballast) Sensors Dry contacts Interface Alarming Remote start/stop Onboard diagnostics 4-20mA Output & Modbus

Physical

Dimensions (H x W x D) Weight (dry) Weight (wet) Wetted parts Body materials Body configuration Inlet/outlet ports Ingress Protection rating Multiple units Warranty n 120 VAC/60 Hz; or 230 VAC/50 Hz 196 W UL 979; IEC 60335-1; IEC 60335-2-109; CE Dual LPHO - air mounted 9,000 hours Maximum 12 per 24 hours

Dual UV - calibrated to NIST standards Built-in - 2 provided (warning and alarm) Colour LCD resistive touchscreen display Indicator light and audible alarms Built-in Built-in Optional

36.5 x 9.6 x 8.6 in (926 x 244 x 218 mm) 32 lb (14.6 kg) 36 lb (16.3 kg) Meets NSF/ANSI/CAN 61 & NSF/ANSI 372 for water up to 73°F (23°C) Anodized aluminum and 316 Stainless Steel Double door with side hinges 1" MNPT Stainless Steel, optional - Stainless Steel hose IP 51, optional - IP 66 for NEMA cabinet systems Multiplex manifold and cabinets available 5-year limited warranty for structural, hardware and mechanical components; 3-year limited warranty on electrical components and quartz sleeves; 12-month limited warranty on bulbs; and 1-year limited warranty on sensor probes

Model

Validation protocol

Features

Quartz sleeve cleaning Wiper position switch Purge valve Cooling Flow restrictor Shut-off valve Hallett 500PN

NSF/ANSI 55 CLASS A by NSF International Watermark of Australia

Built-in - automatic mechanical wiper Built-in Built-in Built-in - forced air Standard - internal Optional - automatic solenoid











The Hallett 500PN is installed indoors on a wall in a dry location. The unit should be plumbed in downstream of any pretreatment devices but upstream of distribution plumbing. The Hallett 500PN plugs into a 120Vac ground-fault circuit-interrupter (GFCI) or a 230Vac residual current device (RCD) (dependent on territory). The Hallett 500PN incorporates both audible and visual alarms to indicate system status and an optional normally closed solenoid valve is available to shut off the water supply in the event of a system fault.

The automatic quartz cleaning feature is engineered to eliminate the periodic maintenance required by conventional UV systems. The UV lamps p/n E300209, Lamp Pair p/n E300210, require replacement after 12 months of operation.



System Tested and Certified by NSF International against NSF/ANSI Standard 55 for Disinfection Performance, Class A.

This Class A system conforms to NSF/ANSI 55 for the disinfection of microbiologically contaminated water that meets all other public health standards. This system is not intended to convert wastewater or raw sewage to drinking water. The system isintended to be installed on visually clear water.

NSF/ANSI 55 defines wastewater to include human and/or animal body waste, toilet paper, and any other material intended to be deposited in a receptacle designed to receive urine and/or feces (blackwaste); and other waste materials deposited inplumbing fixtures (greywaste).

If this system is used for the treatment of untreated surface waters or ground water under the direct influence of surface water, a device found to be in conformance for cyst reduction under the appropriate NSF/ANSI Standard shall be installed upstream of the system.

CATEGORY	TREATMENT	FUNCTION	Hallett 500PN
	Bacteriostatic	Will stop bacteria increasing but will not remove	N/A
		them unless Category II(a) is passed	
ll(a)	Bacterial removal	Will remove or inactivate bacteria	PASS
II(b)	Virus removal	Will remove or inactivate viruses*	PASS
II(c)	Protozoa removal	Will remove or inactivate Cryptosporidium and Giardia. Will not remove or inactivate bacteria and viruses unless Category II(a) and Category II(b) are passed.	PASS
	Turbidity and particulate removal	Reduces cloudiness	N/A
IV	Taste and Odour reduction	Reduces tastes and odours	N/A
V	Chemical contaminant reduction	Decreases certain chemicals	N/A
VI	Other treatment type not captured in Categories I to V	No verification methods are defined	N/A

The following table is in accordance with standard AS 3497:2021

*Most viruses such as poliovirus and rotavirus