

HYDRALOOP

Post Treatment Unit (PTU)

The Post Treatment Unit (PTU) as part of your Hydraloop Cascade setup is a combination of an external storage tank, disinfection station and distribution unit.

Using the PTU ensures having sufficient capacity and due to the residual disinfection, any growth of residual bacteriologic material is minimised. This creates further stability to the complete system and ensures long-lasting durability of your water recycling system.

Abbreviations

PTU = Post Treatment Unit
AUX = Auxiliary
WC = Water Closet

PTU-Disinfection-Booster		Integrated Pump	
		Voltage	Power
		230V	50/60 Hz
			0.85 kW



Water Connections				
Recycled inlet	Backup inlet	AUX output	Main output	Drain
DN15 (1/2" male)	DN15 (1/2" male)	DN15 (1/2" male)	DN20 (3/4" male)	40 mm (OD)

Details			
1. Physical Properties	Length	457 mm	
	Width	695 mm	
	Height	1900 mm	
	Weight	Dry = 140 kg, Wet = 365 kg	
2. Performance & Capacity	Internal storage volume	210 L	Net usable volume ≈ 195 L
	Output flow rate (max)	4.8 m³/h	Integrated booster pump: DAB Esybox Mini3
	Output pressure rate (max)	55 m head (750 kPa)	Integrated booster pump: DAB Esybox Mini3
	Recycled water inflow rate	6 L/min	Maximum inflow from Hydraloop device into PTU
	Back up water inflow rate	9 L/min	Maximum inflow from Hydraloop device into PTU
3. Electrical Specifications	Voltage (frequency)	240 V AC, internal 24 V DC (50/60 Hz)	
	Peak power consumption	1200 W (1.2 kW)	
	Typical Operating Consumption	100 W (0.1 kW)	
4. Connectivity	Internet connection	Ethernet (RJ45) or 2.4 GHz Wi-Fi (WPA/WPA2 compatible)	Connection to internet is required to communicate with Hydraloop Device Manager (HDM)
5. Water Input Sources	Recycled water	Hydraloop "AUX" outlet	Connect (max 4) Hydraloop device(s) "AUX" outlet(s) to PTU Recycled inlet
	Backup water	Hydraloop "WC" outlet	Connect (max 2 of 4) Hydraloop device(s) "WC" outlet(s) to PTU Backup inlet
6. Acoustic Specifications	Pump noise level	~48 dB(A)	
7. Disinfection System	Residual disinfection method	Peristaltic dosing pump	
	Required disinfectant	12.5% Sodium Hypochlorite	NOTE: Chemical not supplied with unit
	Dosing Concentration	Standard setting = 2 ppm (0.2 mg/L)	Dosing is programmable
8. Operating Conditions	Operating temperature	Average ambient temperature 14 - 35 °C.	PTU must be placed inside. Unit is not UV and IP rated
PTU Water Quality Output			
Parameters		Values	Details
CBOD5		≤ 10 mg/L	Output values are according to NSF 350 Class R effluent water quality
TSS		≤ 10 mg/L	
Turbidity		≤ 2 NTU	
E.coli		≤ 2.2 MPN/100 mL	
Ph		6.0 – 9.0 SU	