

Data Sheet:

HP Water Mist: Pump Unit (Hydro Series)



Hydrocore High Pressure Water Mist Pump Units for systems designed for the Protection of:

- Machinery and Combustion Turbines in Enclosures with volumes not exceeding 9,175 ft³ (260m³)
- Local Application Protection.
- Occupancies with lightly loaded non-storage & non-manufacturing areas with ordinary combustibles, also known as Hazzard Category 1 (HC-1).
- Machinery and Combustion Turbines in Enclosures with volumes exceeding 9,175 ft³ (260m³) CCS Certified.
- Other applications, performance based design based on full scale fire test



Product Details	
Hydrocore Part No:	XSWB 100/12 - XSWB 700/12
Hydrocore Drawing No:	-
Description:	<p>The compact modular pump station is sized on the risk and any legislative requirements. The following parameter are to be considered: Room size/area and ceiling height.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Fire Risk category/classification. <input type="checkbox"/> Maximum nozzle spacing. <input type="checkbox"/> Minimum water pressure. <p>The minimum spray duration is approval dependant, see relevant application data sheets</p> <p>The pump unit comprises of oil free, water lubricated minimal maintenance British manufactured high pressure pumps; these pumps are direct coupled.</p> <p>Each Pump Unit consists of the following primary components: HP pumps (Redundancy is required), Pilot pump 2 pcs, Pump Control Panel & Buffer Tank (800 - 1150 litres). Each buffer tank features a fresh water solenoid valve, water level control (monitored for water levels in four positions), filter, supply for high-pressure pumps, drain valve.</p> <p>Pressure relief valve rated at 110% of working pressure.</p> <p>The water level in the tank is controlled by means of a level switch mounted in the tank.</p>
Working Pressure :	12MPa/120bar/1740psi
Maximum Working Pressure:	14MPa/140bar/2030psi
Standby Pressure:	1MPa / 10bar / 145 psi
Material	Wetted parts stainless steel
Media:	Potable water
Operation modes:	Automatic / manual / manual mechanical



Data Sheet:

HP Water Mist: Pump Unit (Hydro Series)



Performance Details			
Designed Flow Rate(max)	100l/min to 700l/min at Designed Working Pressure		
Pump unit details With One redundant pump	Pump Unit	Flow	Weight
	XSWB 100/12	Q=100L/min	1020kg
	XSWB 200/12	Q=200L/min	1200kg
	XSWB 300/12	Q=300L/min	1400kg
	XSWB 400/12	Q=400L/min	1720kg
	XSWB 500/12	Q=500L/min	2050kg
	XSWB 600/12	Q=600L/min	2400kg
Pump unit details: Without redundant pump:	XSWB 700/12	Q=700L/min	2750kg
	XSWB 100/12WR	Q=100L/min	720kg
	XSWB 200/12WR	Q=200L/min	900kg
	XSWB 300/12WR	Q=300L/min	1100kg
	XSWB 400/12WR	Q=400L/min	1420kg
	XSWB 500/12WR	Q=500L/min	1750kg
	XSWB 600/12WR	Q=600L/min	2100kg
XSWB 700/12WR	Q=700L/min	2450kg	
Working Pressure	12MPa/120bar/1740psi		
System Power	30 - 210kW		
Working Temperature range(without heating/cooling)	+5°C to +40°C (40°F to 122°F)		

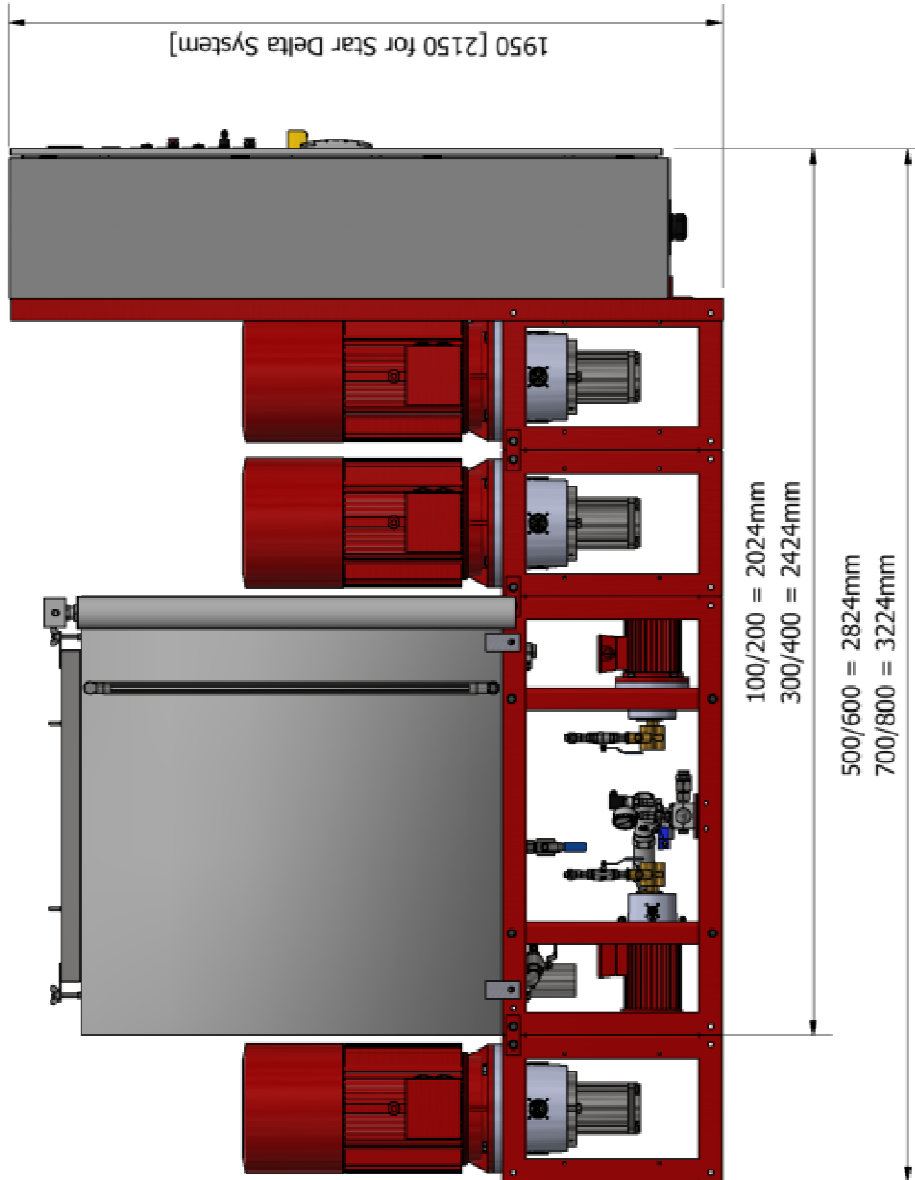
Supply voltage	400VAC/3Ph/50Hz (others available)					
Pump unit details:	Pump	Voltage	Power Required	Max Start Current(DOL)	Max Start Current (Star Δ)	Max Run Current
	XSWB 100/12	400 V	30 kW	310 A	97 A	55 A
	XSWB 200/12	400 V	60 kW	365 A	152 A	110 A
	XSWB 300/12	400 V	90 kW	420 A	207 A	166 A
	XSWB 400/12	400 V	120 kW	475 A	262 A	221 A
	XSWB 500/12	400 V	150 kW	530 A	317 A	276 A
	XSWB 600/12	400 V	180 kW	585 A	373 A	331 A
	XSWB 700/12	400 V	210 kW	640 A	428 A	386 A
Star Delta, available as an option. For Star Delta systems, allow an additional 40Kg per pump fitted, and the electrical control cabinet is 200mm taller.						

The Hydro pump unit is sized for the most demanding area plus 10% contingency. Redundant pumps are available. Must be used in accordance with the correct Design, installation, Operation and Maintenance Manuals:



Data Sheet:

HP Water Mist: Pump Unit (Hydro Series)



DIMENSIONS ARE FOR UNITS WITH BACKUP PUMP.

