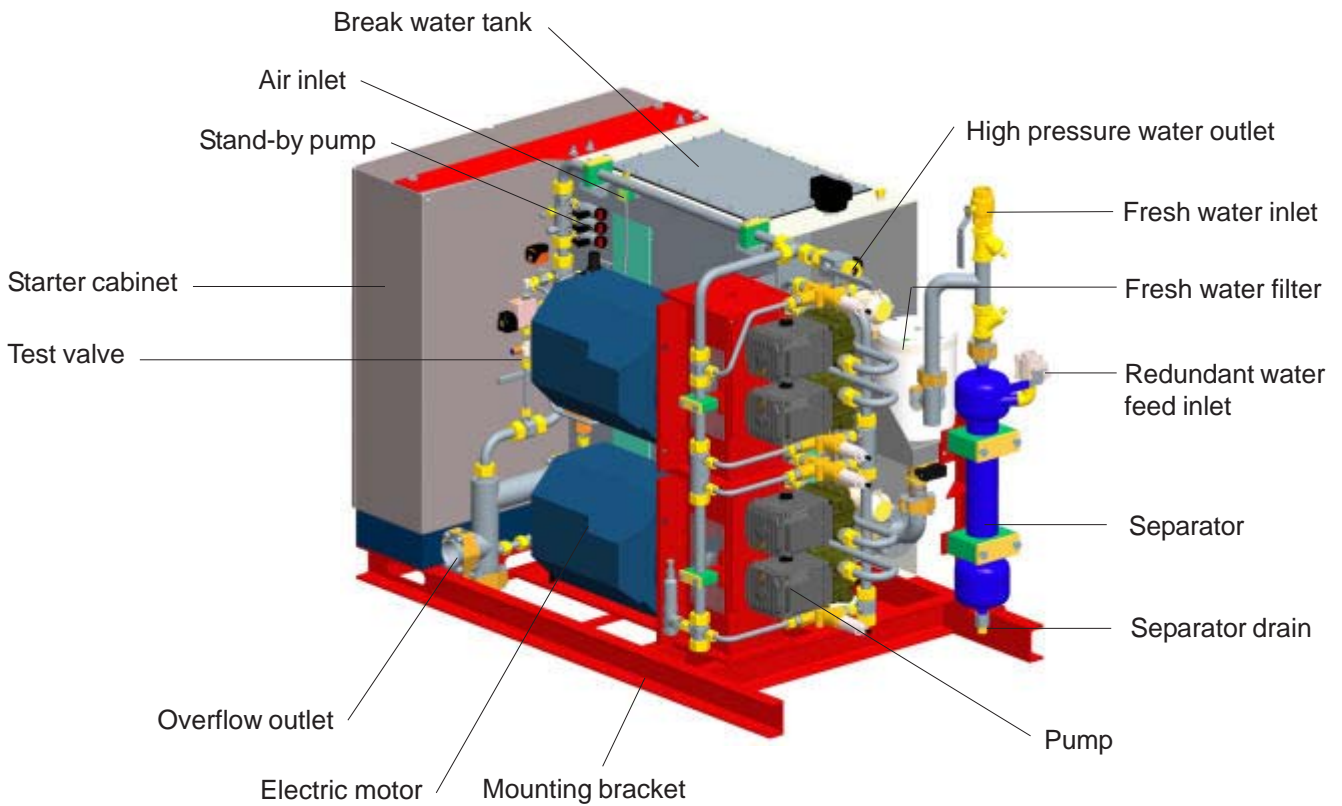




Sprinkler Pump Unit SPU 1+1



Unit output pressure	Length [mm]	Width [mm]	Height [mm]	(dry)	Mass* [kg]	(wet)	Max. output [lpm]
140-80 bar	1740	1000	1293				97
140-140 bar				1086			

Description

The SPU 1+1 consists of a pump module, added with one more redundancy pump module required in Marine installations. Each module consists of an electric motor running via gearbox two high pressure pumps to produce the high pressure water flow needed in the sprinkler system in the case of a fire accident.

The pressure produced by pumps can be adjusted from 80 bar to 140 bar respectively, according to the application. In stand-by position, the system pressure is maintained at 25 bar by means of the pneumatic stand-by pump.

The pump unit can be started automatically or manually. Automatic start is activated either by the flow signal or the pressure signal. Manual start can be launched either from the external release panel or from the Starter Cabinet, switching on the pump modules one by one. External release and indication panel is normally included in the Marioff supply. The system start signal can also be given by the fire detection system (FDS) via the external panel.

NOTE! Service area requirement

Reserve free space around the unit: at least 500 mm on both sides of the motors and at least 700 mm in front of the starter cabinet doors. This area needs to be kept available for service and maintenance work.



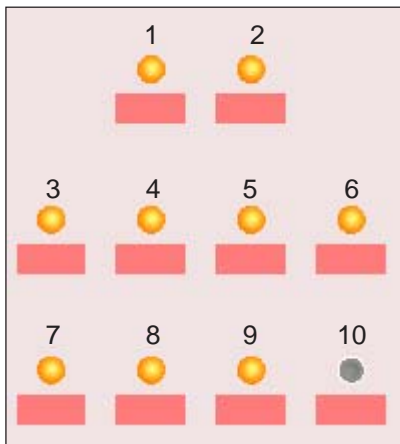
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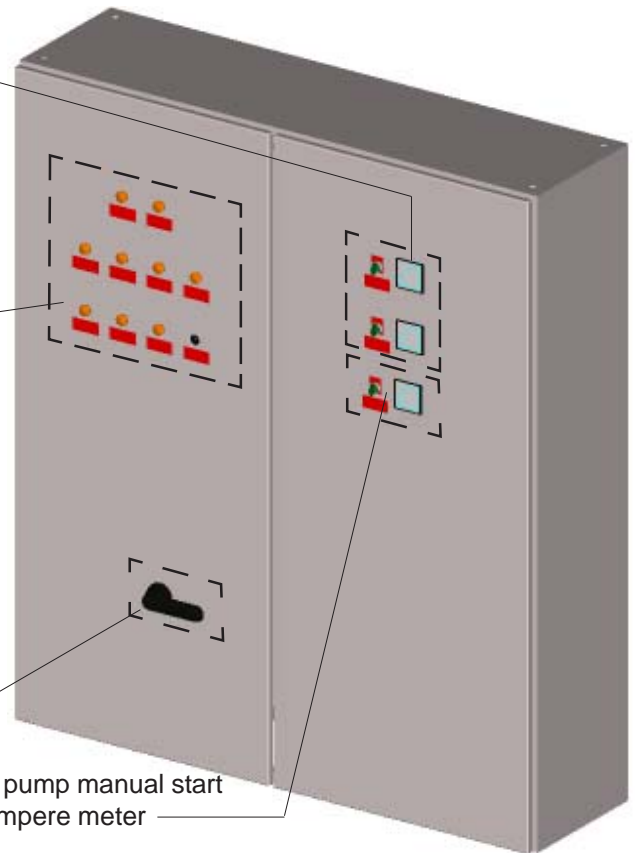
Sprinkler Pump Unit SPU 1+1 Starter Cabinet

Starter Cabinet for product E01216.2

08 Feb 2008



Manual start switch, lamp and motor ampere meter (x 2)



- 1. Main Switchboard Power supply indication lamp
- 2. Emergency Switchboard Power supply indication lamp
- 3. Control system on lamp
- 4. 24 VDC power supply failure
- 5. 24 VDC earth fault
- 6. Reset switch and lamp
- 7. Pump unit fault
- 8. Out of water
- 9. Nitrogen pressure low
- 10. Lamp test push button

Main power switch

Optional fresh water feed pump manual start switch, lamp and motor ampere meter

The electric power to the starter cabinet is normally supplied from the Main Switchboard (MSB). In case of a power failure, the supply from the Emergency Switchboard (ESB) is automatically switched on. Cable openings are at the bottom of the Starter Cabinet. The enclosure class is IP54.

The following signals will usually be led to the ship's automation system: HI-FOG system activated, pump unit fault, out of water in break water tank. In addition, the start request to the external feed water pump is given if the starter of the feed water pump is not in the starter cabinet.

The starter cabinet is equipped with necessary devices to master the optional Water Accumulator Unit control.

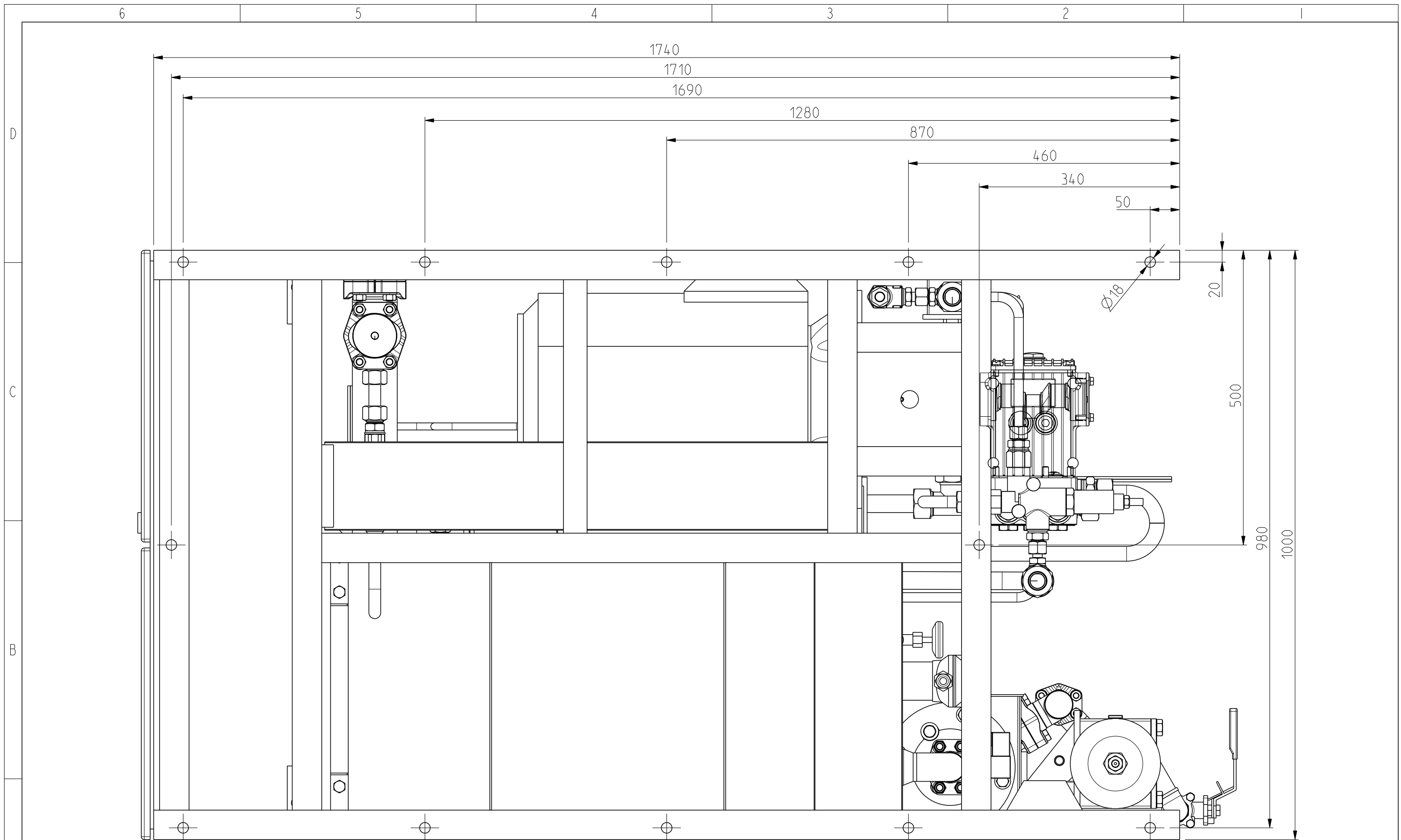
When ordering the SPU, the Starter Cabinet must be defined separately (various voltage, frequency and other options available). Other hardware options and possible FDS connections must also be defined when ordering the unit.

Options for	SPU 1+1 140-140/97 SEP xx, SPU 1+1 140-80/97 SEP xx (with redundancy pump module):
	Feed water pump starter in the Starter Cabinet. Soft starters for each high pressure pump motors to reduce the starting current of the motors. Stand-by heaters for the motors.

Voltage and Frequency options (to be defined when ordering)	
140-80 bar units, 1 x 15,5 kW, total 15,5 kW 140-140 bar units, 1 x 27 kW, total 27 kW	
690 VAC 50 Hz	690 VAC 60 Hz
400 VAC 50 Hz	440 VAC 60 Hz
380 VAC 50 Hz	



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Name	PUMP UNIT SPU1+1-SEP	Mass	0.000 kg
Product	E01216.2	Made	JSA 170206
Replaces		Chkd	
General Tolerance		Appd	
Model	001901.SPU1-1	Release level	WIP
Drawing	001901.SPU1-1	Sheet no	2/2

Scale	1:6	Drw no	DMAUSP001901B
Units	mm		

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