

MAXI | Digital Pressurisation Units

The CORE Maxi microprocessor controlled single or twin pump pressurisation unit is purpose designed with both the specifier and installer in mind.

This pressurisation unit is exceptionally easy to install and commission and is housed in a compact and robust, floor standing enclosure.

Suitable for maintaining pressure in large domestic and commercial sealed heating systems, chilled water systems, refrigeration units and industrial cooling systems.



Features

- Suitable for sealed systems of up to 300,000 litres
- Automated system fill and top-up
- Precise pressure control
- Digital control system and LCD graphic display
- Ai100 technology offers unparalleled control and integration for modern systems
- Full status indication
- Sturdy powder coated steel casing
- High quality peripheral pump(s)
- Available up to 3.9 – 8.0 bar cold fill pressure
- All models are Enhanced and are fully compatible with Building Management Systems
- 4 programable BMS volt-free relays
- Modbus RTU BMS interface

Features

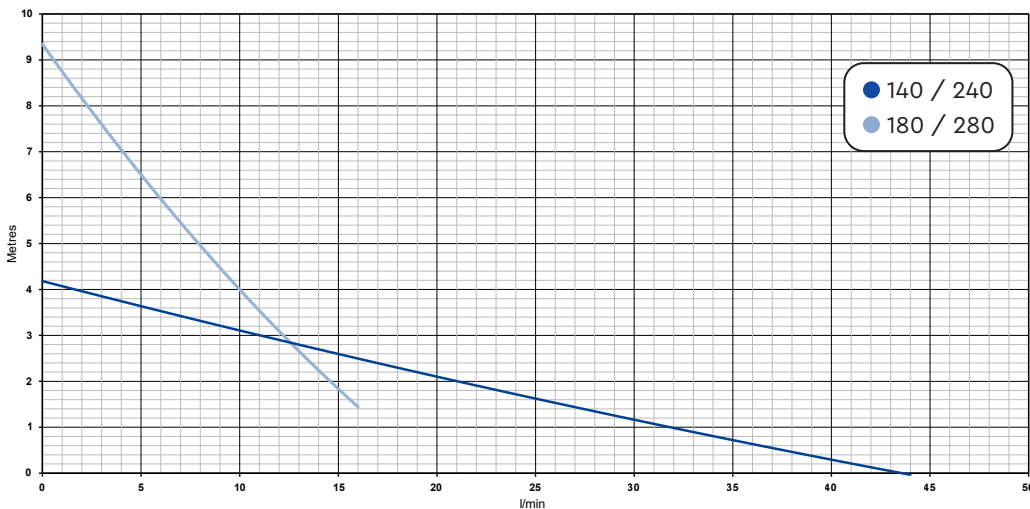
- Self diagnostic electronics
- Designed and built to latest CE requirements and in accordance with ISO9001
- Leak detection via frequency of starts alarm
- Suitable for floor mounting
- Category 5 backflow protection, Type AB air gap, weir overflow and warning pipe
- Single (duty) or twin (duty/standby) pump options
- Adjustable Feet

Applications

- Maintaining system pressure in large domestic and commercial sealed heating systems
- Maintaining system pressure in chilled water systems, refrigeration units and industrial cooling systems

Pressurisation Unit		CORE Maxi140	CORE Maxi240	CORE Maxi180	CORE Maxi280
General	Warranty	2 years			
	Conformity certification	UKCA/CE			
Features	Mounting	Floor mounted			
	Sealed system capacity	Up to 300,000 litres			
	Pump control system	✓			
	Intelligent control interface	✓			
	Dry run protection	✓			
Materials	Break tank	Polyethylene			
	Casing	Powder coated steel			
Performance	Maximum cold fill pressure	3.9 bar (flow rate 2.5 l/min)		8.0 bar (flow rate 2.5 l/min)	
	flow rate (maximum per pump)	16.5 l/min (at 1.5 bar)			
	flow rate (nominal per pump)	6 l/min (at 6 bar)			
	Ambient air temperature	Min 4 °C/Max 40 °C			
	Relative humidity	95 % non-condensing			
	Min./Max. water temperature	Min 10 °C/Max 23 °C			
Water tank	Usable water capacity	18 litres			
	Inlet valve and fill rate	Float valve			
	Fluid category	CAT 5 (type AB air gap with weir)			
Connections	Cold water inlet	½" BSP M			
	System outlet	22 mm Compression			
	Overflow	20mm			
Pump	Number of pumps	1	2	1	2
	Pump mode	Duty	Duty/Standby	Duty	Duty/Standby
	Pump type	Peripheral			
	Motor type	Induction, auto-reset thermal trip			
	Duty rating	Continuous (S1)			
	Pump head and impeller	Bronze			
Electrical	Power supply (V / Ph / Hz)	230 V AC/1/50 Hz			
	Power consumption (standby)	21 Watts	21 Watts	21 Watts	21 Watts
	Power consumption (Filling)	620 Watts	1240 Watts	700 Watts	1400 Watts
	Current – full load	4.6 Amp	7.2 Amp	5.2 Amp	8.4 Amp
	Fuse rating	5 Amps	10 Amps	10 Amps	10 Amps
	Alarm output	✓			
	Maximum load BMS relays	5 Amps			
Physical	Enclosure protection	IP55			
	Width	505 mm			
	Depth	405 mm			
	Height (not including feet)	805 mm			
	NET Weight	38 Kg	45 Kg	42 Kg	54 Kg

Performance Curve



CORE MAXI Unit Dimensions

