

Matrix Maxi

pressurisation unit



altecnic

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Introduction

The Altecnic Matrix Maxi digital pressurisation units represents the next generation of automatic pressure maintenance solutions for heating and chilled water systems.

The units are capable of monitoring and maintaining the design pressure in sealed water systems.

The units are capable of filling an empty system.

The Matrix Maxi units are exceptionally easy to install and commission and are contained in a compact and robust enclosure suitable for floor standing.

Matrix Maxi digital pressurisation units are available with one (duty) or two (duty-standby) peripheral pumps featuring continuously rated induction motors.

Utilising the microprocessor controller and pressure transducer, these pressurisation units feature an intuitive and easy to use menu based control system, self diagnostic functions, configurable volt free contact alarm connections and Building Management system Modbus interface.

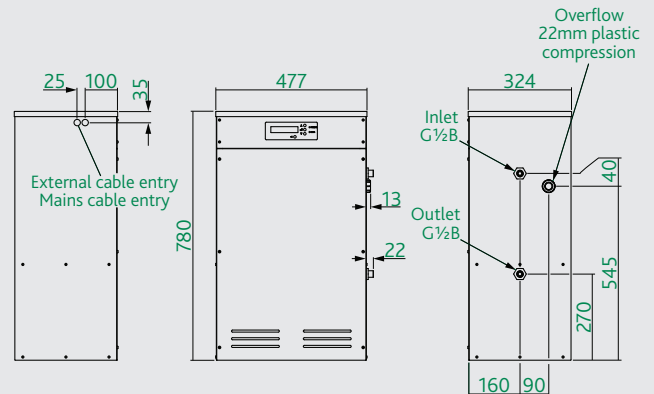
The Matrix Maxi unit is designed for use in large domestic and commercial sealed heating systems.

They can also be used in chilled water systems, refrigeration units and industrial cooling systems.

Features

- Compact design
- Floor standing
- Robust steel enclosure
- 8 bar pressure option
- 18 litre tank capacity
- Digital control system and LED display
- Automated system fill and pressure maintenance
- Single (duty) or twin pump (duty-standby) configurations
- High recovery water tank fill valve 12 l/min @ 1 bar
- WRAS compliant Category 5 backflow protection, Type AB air gap, weir overflow and warning pipe
- 2 year guarantee

Dimensions



All dimensions shown in mm unless otherwise stated.

Matrix Maxi pressurisation unit

Technical Specification

Pump Model		Matrix Maxi 180D 121-1021	Matrix Maxi 280D 121-1022
General	Guarantee	2 years	
	System capacity	Up to 300,000 litres	
	Mounting	Floor standing	
	System fill mode	✓	✓
Performance	Maximum cold fill pressure	8 bar	
	Maximum inlet pressure	6 bar	
Pump	Number	1	2
	Type	Peripheral	
	Motor type	Induction (thermal trip, auto reset)	
	Duty rating	Continuous (S1)	
Break tank	Capacity	18 litre	
	Inlet valve	Ball valve	
	Fluid protection	CAT 5 (type AB air gap with weir overflow)	
Connections	Cold water inlet	MBSP	
	System outlet	15mm compression	
	Overflow	G $\frac{3}{4}$ (Ø19 -Ø23 pipe)	
Construction	Cabinet	Power coated steel	
	Break tank	Polyethylene	
	IP rating	IPX2	
Control system	Pressure monitoring	Pressure transducer (0 to 10 bar)	
Environment	Ambient temperature	4°C to 40°C	
	Relative humidity	95% non-condensing	
Electrical	Power supply/ phase/ frequency	230V - Single phase - 50 Hz	
	Power consumption (P1)	680 W	
	Power consumption (P2)	500 W	
	Full load current	3.4 A	
Physical	Depth	324 mm	
	Width	477 mm	
	Height	780 mm	
	Empty weight	34 kg	45 kg
	Filled weight	52 kg	63 kg
Approvals		CE	

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