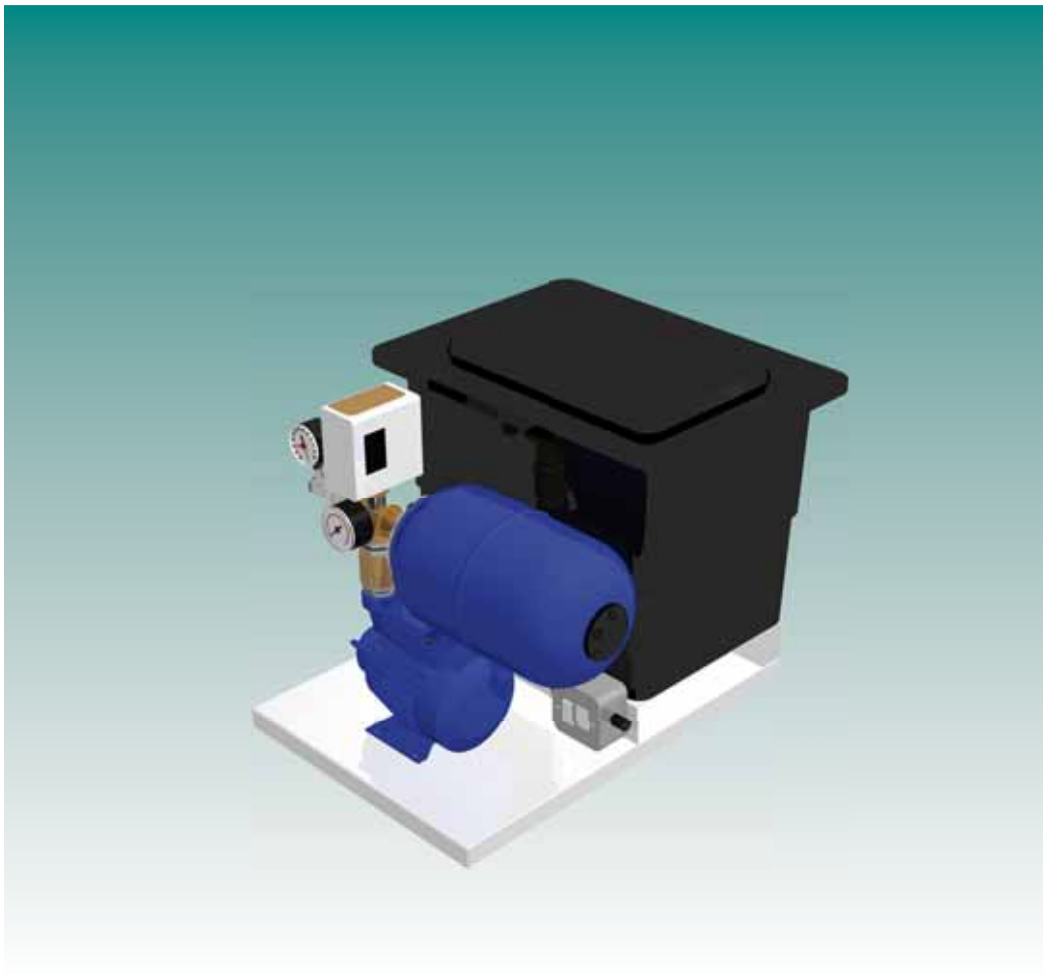


Pressurisation
Units



Unimat Alpha Single Pump Pressurisation Unit



Unimat Alpha Single Pump Pressurisation Unit

Unimat Alpha is a simple one pump pressurisation unit designed for use on closed circuit heating and cooling systems. The unit features an 18 ltr storage tank with type AB Airgap and 1/2" ball/float valve, and a powerful bronze peripheral impeller pump capable of flows to 38 ltr.min and heads to 41m (4bar). The unit is complete with a powder-coated mild steel base-plate, pressure switch, pressure gauges (pump and system), pressure reducing valve, 5 ltr accumulator, non-return valve and fused spur. The units are fully wired and tested.

Technical Data

Pump:	BCTM61 Bronze Peripheral Impeller Pump.
Motor:	TEFV, IP54, Class F, 230/1/50 IEC60335-2-41, 0.33kW. Built-in thermal protection and capacitor. Continuously rated.
Base:	Mild steel ~ Powder coated.
Pressure Switch:	0-6bar differential switch.
Pressure Gauge:	0-6bar (pump outlet).
PRV:	Brass 1/2" with 0-10 bar gauge (system pressure).
Vessel:	Mild steel, stainless flange, butyl bladder.
Fittings:	All brass.
Tank:	Plastic 18 ltr Nominal.
Ball/Float V/V:	1/2" brass valve BS Part II with 4" plastic float.
Max. Flow:	38 ltr/min.
Max Pressure:	4.0 bar.

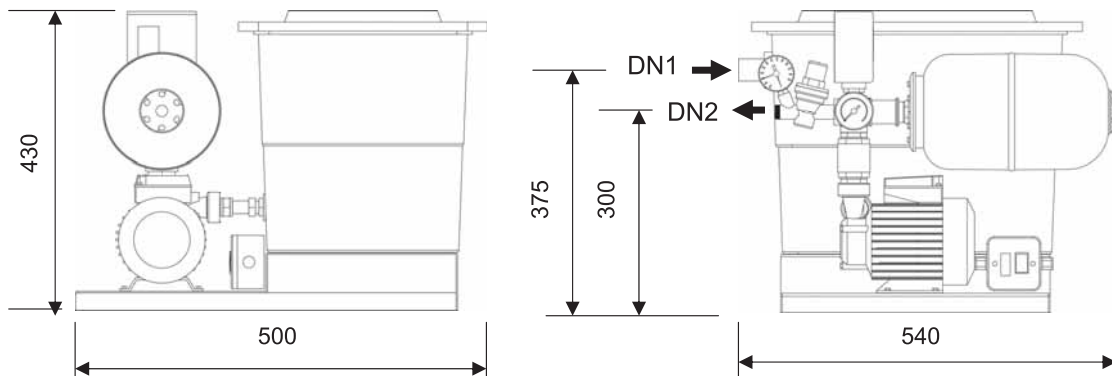
General Data

Weight:	15Kg Net
Dimensions:	540w x 500d x 430h
Air Gap:	Non-Domestic, Type AB Airgap
Electrical:	Fused Spur (5A), 230V 1ph 50hz. Pump Motor P2 = 0.33kW, 2.5A
Water In/Out:	1/2" BSPm/1/2" BSPf.

Dimensions

Net Weight = 15kg

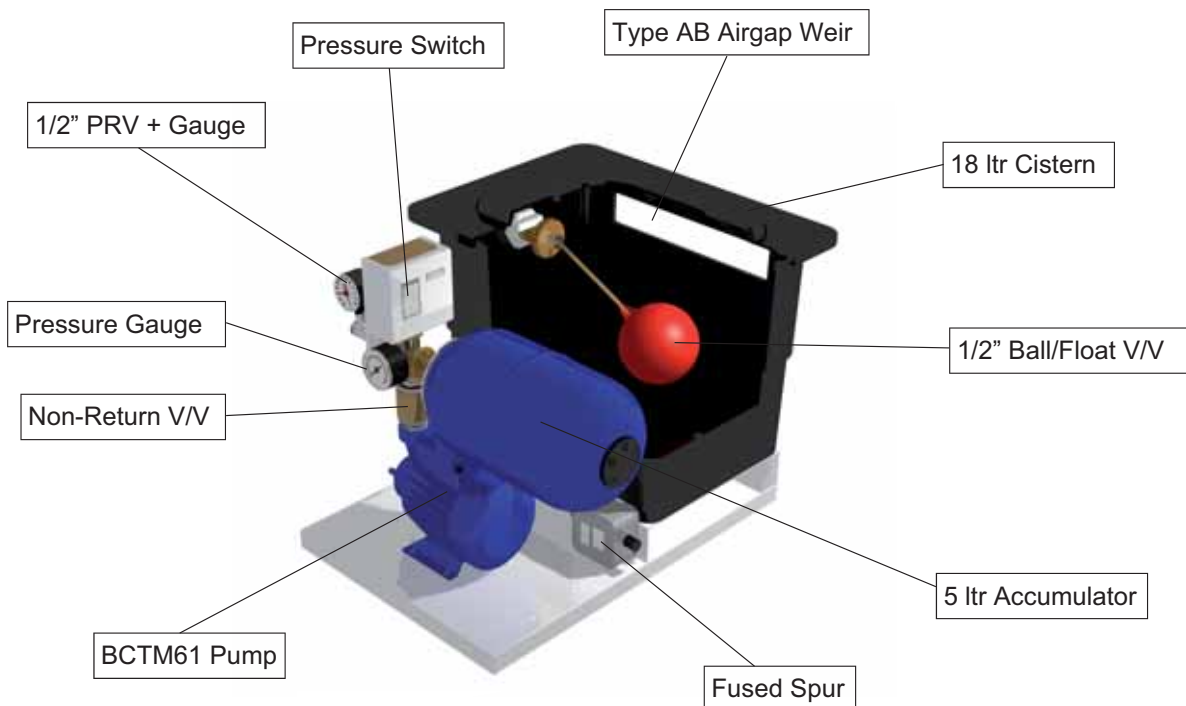
DN1 = 1/2" BSPm DN2 = 1/2" BSPf



Dimensions in mm and are not certified. If in doubt ask.

Unimat Alpha Instructions

- Location:** Because the tank is fitted with a type AB Airgap, in the event of the failure of the ball/float valve it is possible that water will spill over the AB gap weir. Please consider the potential for this carefully when locating the unit. If in doubt install the unit in a suitable drip tray/bund with drain.
- Electrical:** Important - Follow local regulations, if in doubt consult a qualified electrician. Provide a suitably rated 230V 1ph 50hz supply cable to the spur fused socket (5A).
- Water Inlet:** Connect a water supply from a 15mm mains feed via a suitable isolating valve to the tank ball/float valve inlet.
- Water Outlet:** Connect the water outlet at the PRV to the system via suitable pipe-work, a non-return valve, and isolating/commissioning valve.
- Pressure Setting:** Adjust the pump pressure switch to the required cut-out pressure (Factory Pre-Set = 2.5 bar), allow at least a 1.0 bar differential, (Factory Pre-Set = 1.5 bar). Adjust the PRV to give the required system pressure, (Factory Pre-Set = <1.0 bar).
- Pump Vessel:** Charge the pump vessel air pressure to a value 0.1 bar lower than the pump cut-in pressure, (Factory Pre-Set = 0.9 bar).
- System Vessel:** You will need to size and install a system vessel ~ Please contact our technical office for further information.



Accessories



Accessories

1. Hi-Low Pressure Switch Assembly
2. Commissioning Valve
3. System Vessels

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