

stuart

Digital Pressurisation Units - Mini

The Stuart SPU Mini range of digital pressurisation units represent the next generation of automatic pressure maintenance solutions for sealed heating and chiller systems.

Capable of monitoring and maintaining the design fill pressure in sealed systems, Stuart SPU Mini units are exceptionally easy to install and commission and are housed in a compact and robust enclosure suitable for wall mounting.

Units are available with one (duty), or two (duty-standby) solenoid-piston pumps.

Utilising an unique microprocessor controller and pressure transducer, these systems feature an easy to use control system and a volt-free contact boiler interlock connection.



Features

General

- Digital control system and LED display
- Automated system pressure maintenance
- Compact design
- Wall mounted
- Outlet configurable for left or right hand side connection with flexible hose (supplied)
- 3.0 bar pressure
- Single (duty) or twin pump (duty-standby) configurations
- 3 litre tank capacity
- High recovery water tank fill valve 12 ltrs/min @ 1 bar
- WRAS compliant Category 5 backflow protection, Type AB air gap, weir overflow and warning pipe
- 2 year guarantee
- Patent application submitted

Application

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



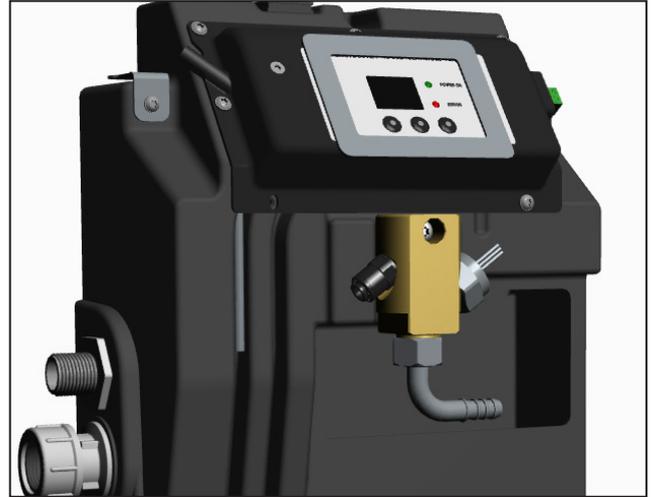
For further advice on selecting the correct pump call
or e-mail info@stpumps.co.uk

pumpassist
HELPLINE +44 (0) 800 31 969 80

Break Tank

Stuart digital pressurisation units feature a robust single piece moulded polyethylene water tank.

- 3 litre nominal capacity
- Torbeck side entry fill valve (WRAS Approved)
- High flow fill rate 12 ltrs/min @ 1 bar
- Category 5 fluid backflow risk compatible
- Type AB air gap, weir overflow and overflow warning pipe



Pressurisation Pumps

All Stuart SPU Mini pressurisation units are available with one or two highly reliable solenoid-piston pumps.

- Single (duty) or twin (duty-standby) pump options
- 3.0 bar pump
- Twin pump systems feature cyclic operation, balancing usage based on running time



Pressure Transducer Monitoring & Control

A closed loop control system featuring a pressure transducer enables precise system pressure monitoring and system top-up.

- Precise pressure monitoring
- Software pressure control in 0.1 bar increments
- Pump dry run protection



Digital Control System

Featuring an advanced microprocessor control system designed specifically for the range of Stuart SPU Mini pressurisation units.

- LED display, power on and error status LEDs
- Automated pressure maintenance



System Connectivity

Volt-free contacts enable connection to external alarms and systems.

- Volt-free contact output for boiler interlock

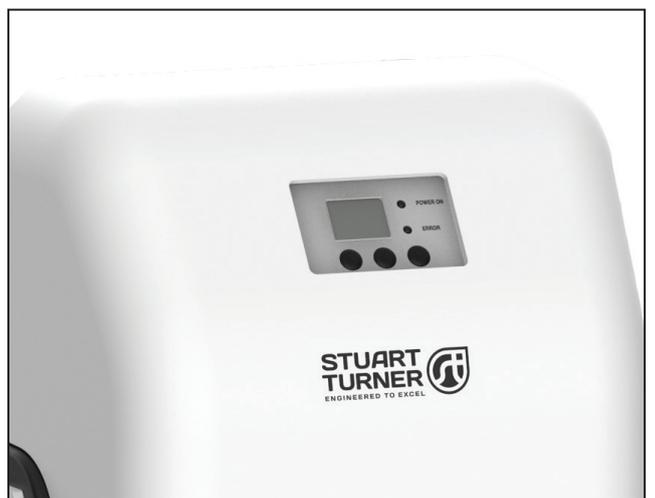


Easy Installation & Maintenance Access

Stuart SPU Mini pressurisation units are simple to install and are wall mounted using the wall hanging bracket supplied.

A single screw and snap-fit fastenings make access for maintenance remarkably easy.

- Durable high gloss ABS moulded cover
- Dual-Lock™ and single screw cover fastening



Model		SPU 130 MINI 46719	SPU 230 MINI 46720
General	Guarantee	2 years	
	System capacity	Up to 6000 litres	
	Mounting	Wall mount	
Performance	Maximum cold fill pressure	3.0 bar	
	Maximum inlet pressure	6 bar	
Pump	Number	1	2
	Type	Solenoid-piston	
	Duty rating	Intermittent (S3)	
Break tank	Capacity	3 litres	
	Inlet valve	Torbeck (side entry)	
	Fluid category protection	CAT 5 (type AB air gap with weir overflow)	
Connections	Mains supply inlet	G 1/2	
	System outlet	15 mm compression	
	Overflow	G 3/4 (19/23 mm pipe connection)	
	Flexible hose - outlet	15 mm x 600 mm	
Construction/ materials	Front cover	High gloss ABS	
	Break tank	Polyethylene	
	IP rating	IPX2	
Control system	Pressure monitoring	Pressure transducer (0 - 10 bar)	
Environmental	Ambient temperature	4 °C - 40 °C	
	Relative humidity	95% non-condensing	
Electrical	Power supply / phase / frequency	230 V a.c. / 1 / 50 Hz	
	Power consumption	100 Watts	
	Full load current	0.5 Amps	
Physical	Depth	145 mm	
	Width	293 mm	
	Height	403 mm	
	Empty weight	3.6 Kg	4.2 Kg
	Filled weight	6.6 Kg	7.2 Kg
Approvals		CE	

