Mikrofill 3 Pro

Pressurisation unit

72846

The Mikrofill 3 PRO is a fully automatic sealed system filling device and is suitable for the water management of domestic and commercial heating and cooling systems.

The unit is compact, efficient, and easy to install and commission. Using smart logic alongside pressure and flow sensors, it provides early detection and alerts for system issues, and is designed to require minimal maintenance.



Key features

- WRAS-approved product - Fluid Risk Category 4 backflow prevention - WRAS approval number: 2307805
- 8.7 bar max cold fill pressure
- Compact, wall-mountable design
- Full colour display with 3.95" LCD screen
- Comprehensive electronic pressure management
- Accurate flow rate monitoring and volume logging
- Leak detection
- Smart fault logic
- MODBUS RTU
- 4x customisable BMS outputs
- Large memory capacity to record up to 100 parameter changes and fault conditions combined (all entries are time and date stamped)
- Easy to install and set up
- Standard 2-year warranty
- Extended 4-year warranty when purchased with a vessel package

Accessories

- 2x braided hoses with integrated isolation valve

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

Operating specifications

Max inlet pressure	9 bar
Max cold fill pressure	8.7 bar
Max operating pressure	9 bar
Max flow rate	12 l/min

Dimensions

Height (to the bottom of connections without hoses)	290 mm
Height (to the bottom of tundish)	386 mm
Width	250 mm
Depth	155 mm
Weight (Without hoses)	5.3 kg

System control

Colour (backlit) LCD screen	✔
Pressure setting resolution = +/- 0.1 bar	✔
Low Inlet pressure cut-out (0.3 bar)	✔
User password access	✔
Hand mode for manual operation	✔
Flood protection (run time limiter)	✔
On-screen service reminder (user set)	✔
Customisable volt-free contacts	✔
High/low pressure fault indication	✔
Leak detection	✔
Usage monitor, fill volume, logs and counters	✔
Smart fault logic for fault diagnosis	✔
Live flow readings +/- 3% accuracy	✔

Installation and connections

Inlet	15 mm compression
System	15 mm compression
Drain	22 mm compression
Wall Attachment	Backplate supplied, fixings not included
Clearance (left)	100 mm
Clearance (right)	170 mm
Clearance (top)	100 mm
Clearance (from front face with door closed)	750 mm

Electrical

Supply voltage	230 V/1 ph/50 Hz
Fuse rating	3 A
BMS relays (max load)	5 A

Operating (environmental) conditions

Ambient temperature range	5 - 45°C
Inlet water temperature range	5 - 23°C
System water temperature range	5 - 85°C
Maximum relative humidity	70% (non-condensing)
IP rating	55

Warranty

Standard	2 years
With vessel packages	4 years

Communication

MODBUS RTU	✔
BMS outputs	4

Service and repair

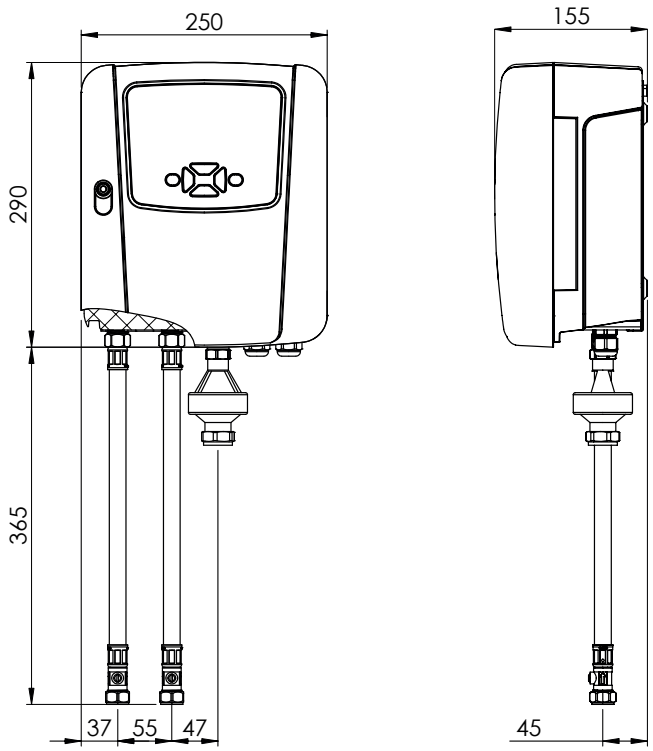
Live, in-situ testing	✔

Fluid protection

WRAS Category 4	✔
Kiwa Regulation 4	✔

Mikrofill 3 PRO dimensions

All dimensions in mm.



Mikrofill 3 PRO typical schematic

