

The Flexfiller Direct G4 is the latest in pumpless digital pressurisation technology for light commercial and residential buildings. It's a slim, wall-mounted pumpless top-up pressurisation unit, with a top-up flow rate of up to 14 l/min depending on the mains or boosted mains, water pressure. It is designed to be connected directly to a building's incoming water supply using the included flexible hose. It is there to fill and maintain the pressure of a heating or chilled water system without the need for a pump.

Packed with unique algorithms to monitor expansion-vessel health, safety valve activations and leak detection, for a robust and reliable heating -or chilled system. The unit comes with a user-friendly controller that displays all operating and error conditions comprehensibly and conveniently. It features extensive data storage for online and offline analysis, microprocessor control, and self-learning algorithms with a graphical display. It comes with MODBUS RTU and BACnet communication protocols as standard and has its key operating parameters password protected.

**Product features**

- Silent, pumpless pressurisation unit.
- Fills system from empty.
- For system volumes up to 50,000 litres.
- Onscreen service reminder (12 months).
- Colours: Grey (RAL7016) and Red (RAL3002).
- Password protected.
- Pressure setting in 0.1 bar increments.
- Flood protection (Runtime limiter and excessive activation logging).
- Volt free contacts: 1x Common Alarm (N/C or N/O) fully programmable for specific alarms (customisable via control unit). 2x N/C fully programmable for specific alarms (customisable via control unit).
- Extensive data storage for online or offline analysis.
- Advanced technology ensures the lowest power consumption, long service life and easy maintenance.
- Microprocessor control, self-learning with graphical display.
- Max. flow rate of 14 l/min.
- Connects directly to the mains (boosted) water mains, via included flexible hose (L = 400 mm).

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## Advantages

### Advantages

- Universal connection to drain fits 21.5 mm copper compression, 32 mm PP push fit and 32 mm PP solvent weld discharge pipe to BS 5254 or BS EN1451.
- The user-friendly control unit displays all operating and error conditions in an logical and convenient way.
- Four status LED indicators.
- System safety valve monitoring.
- Expansion vessel health monitoring.
- Leak detection.
- Usage monitor, logs and counters.
- MODBUS RTU and BACnet Communication Protocol via RS485.
- Can be combined with Flamconnect Remote (Please check with your local sales office for availability).
- Two 40 cm flexible hoses with insulation (for mains and sealed system connection) included for easy installation.

## Technical Specifications

### Maximum operating conditions

- System temperature: 5 °C / 85 °C.
- Supply temperature: 5 °C / 45 °C.
- Max./ Min. Supply (Mains) Pressure: 0.5 / 6.0 bar.
- System PN rating: PN10.
- Max. Delivery (Topup) Pressure: 5.7 bar (Dependent on available incoming supply pressure).
- Protection class: IP44 (BS EN60529) rated controller.
- Relative humidity 60....70% non-condensing.

### Certifications and Standards Applied

- Fluid Protection Category 3 (Kiwa).
- IEE - Low Voltage electrical Regulation SI 1989 No. 728.
- Electromagnetic Compatibility Regulation 2016 No. 1091.
- BS 7074 Parts 1 to 3.
- UK Supply of Machinery (Safety) Regulations 2008.
- Electronic Components have been tested and comply with the EMC Directives, UK EMC Regulations 2016.
- EN 61000-6-3: Generic Standards – Emission standard for residential, commercial and light industrial environment.
- Electrical Equipment (Safety) Regulations 2016.
- CE marked components.
- WRAS approved check valve.
- IP44 (BS EN60529) rated controller.

### Materials of construction

- Cabinet: Mild steel CR4 Powder Coated
- Drain manifold: PA66 GF30
- Check-valves: POM
- Filter: POM
- Connections:

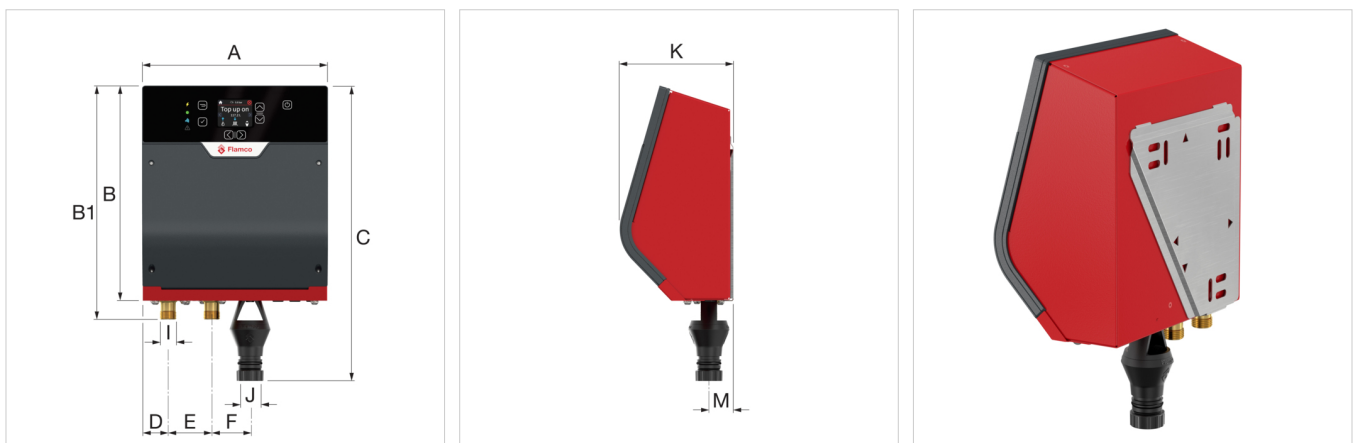
In -and outlet manifold: DZR Brass

Tundish: PA66 GF30

- Pipework: Stainless steel braided Flexible hose / EPDM / Copper
- Finish: Powder coated
- Valves: Brass / PTFE

Description	Flexfiller Direct G4	
Order Code	20100	
GTIN	8712874201002	
Model	<u>Flexfiller Direct G4</u>	
Connections	System [mm]	15 (compression)
	Mains Supply [mm]	15 (compression)
	Drain (Tundish) *	3/4" BSP
Standby Power Consumption [W]	2	
Full Load Current [A]	0.3	
Weight [kg]	4	

\* 21.5, 32 mm PP push fit and 32 mm PP solvent weld.



### Dimensions Flexfiller Direct G4

Type	Dimensions										
	A [mm]	B [mm]	B1 [mm]	C [mm]	D [mm]	E [mm]	F [mm]	I ["]	J [mm]	K [mm]	M [mm]
<b>Flexfiller Direct G4</b>	225	262	284	359	32	53	46	1/2" BSP	21.5 / 32 *	141	30

\* 21.5, 32 mm PP push fit and 32 mm PP solvent weld.



### Classification General Data

<b>Etim Group</b>	Pressurization and expansion systems
<b>Etim Class</b>	Central heating refill installation
<b>Product Name</b>	Flexfiller Direct G4
<b>Brand</b>	Flamco
<b>Product Type</b>	Top Up Units
<b>Order Code</b>	20100
<b>GTIN</b>	8712874201002

### Attributes

<b>Suitable for membrane pressure expansion tank</b>	Yes
<b>Suitable for compressor-controlled automatic expansion unit</b>	Yes
<b>Connections</b>	Internal thread cylindrical BSPP-G (ISO 228-1)
<b>Nominal diameter</b>	1/2 inch (15)
<b>Outer pipe diameter 1 supply</b>	15 mm
<b>Outer pipe diameter 1 return</b>	15 mm
<b>With filter</b>	Yes
<b>With de-aerator</b>	Yes
<b>Pressure</b>	0.7 - 6 bar
<b>Max. operating pressure</b>	10 bar
<b>With drain funnel</b>	Yes
<b>With automatic filling function</b>	Yes
<b>Connection size of filling pipe</b>	15 mm
<b>Filling capacity</b>	840 l/h
<b>Height</b>	359 mm
<b>Barrier</b>	Entry and exit
<b>Width</b>	225 mm
<b>Category of system separator</b>	Other
<b>Depth</b>	141 mm
<b>With pressure reducer</b>	No
<b>Suitable for softening</b>	No
<b>With system separator</b>	No
<b>Max. temperature at the inlet</b>	45 °C
<b>Max. temperature at the outlet</b>	90 °C
<b>Suitable for full demineralization</b>	No
<b>Suitable for pH value stabilization</b>	No
<b>With pressure gauge</b>	Yes
<b>Suitable for fixed installation</b>	Yes
<b>Suitable for mobile use</b>	No
<b>With insulation</b>	No

**Find more information online:**[Quick start guide](#)[Installation and operating instruction](#)[Flextronic Connectivity Guide](#)[Kiwa certificate K13471/08](#)[WRAS certificate](#)[UK Declaration of Conformity](#)[Flexfiller Direct G4 DWG](#)[Flexfiller Direct G4 DXF](#)[Flexfiller Direct G4 IPT](#)[Flexfiller Direct G4 RFA](#)[Flexfiller Direct G4 STEP](#)[Brochure](#)[Spare parts](#)[Folder Flextronic](#)[Folder Flamconnect Remote UK](#)[Video Flexfiller Direct G4](#)

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