



Product Data Sheet 2022/10/19

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.

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 15,000 litres.<>
Fluid Protection Category 4 backflow prevention.<>
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 contact: Common alarm (N/C or N/O), 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).<>

You can register here for warranty Click here

Advantages

- Universal connection to drain fits 22 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 Service (Please check with your local sales office for availability).
- Two 40 cm flexible hoses (for mains and sealed system connection) included for easy installation.





Technical Specifications

Maximum operating conditions

- System temperature range at point of connection: 5 °C / 90 °C.
- Ambient temperature range: 5 °C / 45 °C.
- Max. system pressure: 10.0 bar.
- Min. / max. delivery pressure: 0.5 6.0 bar.
- Pressure rating: PN 10.
- Protection class: IP44.
- Relative humidity 95% non-condensing.

Certifications and Standards Applied

- PED 2014/68/EU Sound Engineering Practice.
- IEE Electrical Safety Guidance.
- EMC 2004/108/EC.
- BS 7074 Parts 1 to 3.
- Machinery Directive 2006/42/EC, UK Supply of Machinery (Safety) Regulations 2008.
- Electronic Components have been tested and comply with the EMC Directives, UK EMC Regulations 2016.
- EN 61000-6-2: Generic Standards Immunity standard for industrial environments.
- EN 61000-6-3: Generic Standards Emission standard for residential, commercial and light industrial environment.
- Low Voltage Directive 2014/35, Electrical Equipment (Safety) Regulations 2016.
- CE marked components, where applicable.
- 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 coatedValves: Brass / PTFE

| Description | | Flexfiller Direct G4 |
|-------------------------------|----------------------|-----------------------------------|
| Order Code | | 20100 |
| GTIN | | 08712874201002 |
| Model | | Flexfiller Direct G4 |
| 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 |

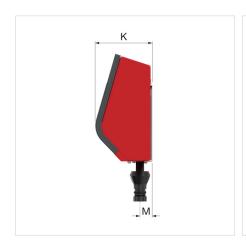


 * 22 mm copper compression, 32 mm PP push fit and 32 mm PP solvent weld.



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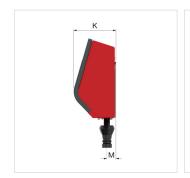




Dimensions Flexfiller Direct G4

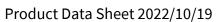
| Туре | Dimensions | | | | | | | | | | |
|----------------------|------------|-----------|------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|
| | A [mm] | B [mm] | B1 [mm] | C [mm] | D [mm] | E [mm] | F [mm] | ["] | J [mm] | K [mm] | M [mm] |
| Flexfiller Direct G4 | 225 | 262 | 284 | 359 | 32 | 53 | 46 | 1/2" BSP | 22 / 32 * | 141 | 30 |

 $^{^{\}star}$ 22 mm copper compression, 32 mm PP push fit and 32 mm PP solvent weld.











Classification General Data

| Etim Group | Pressure increase/decrease |
|---------------|-------------------------------------|
| Etim Class | Central heating refill installation |
| Product Name | Flexfiller Direct G4 |
| Brand | Flamco |
| Product Type | |
| Artikelnummer | 20100 |

Attributes

| Suitable for membrane pressure expansion tank | Yes |
|---|-----------------------------|
| Suitable for | Yes |
| compressor-controlled | |
| automatic expansion unit | |
| Connections | Internal thread cylindrical |
| | BSPP-G (ISO 228-1) |
| Nominal diameter | 1/2 inch (15) |
| Outer pipe diameter 1 supply | 15 Millimetre |
| Outer pipe diameter 1 return | 15 Millimetre |
| With filter | Yes |
| With de-aerator | Yes |
| Pressure | 0.5 - 6 bar |
| Max. operating pressure | 10 Bar |
| With drain funnel | Yes |
| With automatic filling function | Yes |
| Connection size of filling pipe | 15 Millimetre |
| Filling capacity | 840 Litre per hour |
| Height | 359 Millimetre |
| Barrier | Input and output |
| Width | 225 Millimetre |
| Category of system separator | Other |
| Depth | 141 Millimetre |
| With pressure reducer | No |
| Suitable for softening | No |
| With system separator | Yes |
| Max. temperature at the inlet | 45 Degrees celsius |
| Max. temperature at the outlet | 90 Degrees celsius |
| Suitable for full | No |
| demineralization | |
| Suitable for pH value stabilization | No |
| With pressure gauge | Yes |
| Suitable for fixed installation | Yes |
| Suitable for mobile use | No |
| | |

Find more information online:

Ouick start guide
Installation and operating instruction
Flextronic Connectivity Guide
Kiwa certificate K13471/08
WRAS certificate
Statement of compliance
Flexfiller Direct G4 DWG
Flexfiller Direct G4 DXF
Flexfiller Direct G4 IPT
Flexfiller Direct G4 RFA
Flexfiller Direct G4 STEP
Brochure
Spare parts





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Quick start guide

Installation and operating instruction

Flextronic Connectivity Guide

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WRAS certificate

Statement of compliance

Flexfiller Direct G4 DWG

Flexfiller Direct G4 DXF Flexfiller Direct G4 IPT

Flexfiller Direct G4 RFA

Flexfiller Direct G4 STEP

<u>Brochure</u>

Spare parts

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