20100 - Flexfiller Direct G4

Product Data Sheet 2023/01/13



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).

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

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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.

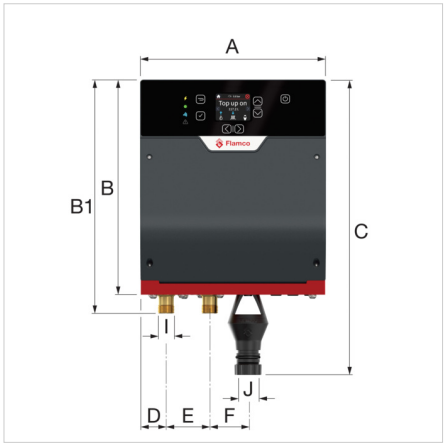
Materials of construction

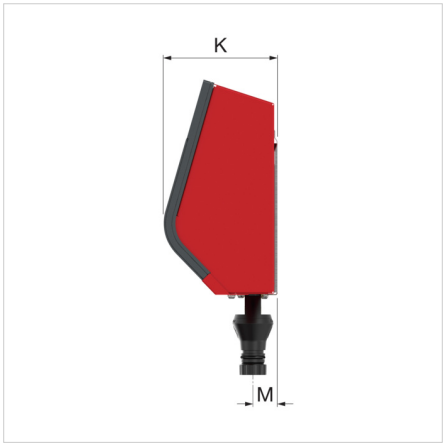
- Cabinet: Mild steel CR4 Powder Coated
- Drain manifold: PA66 GF30
- Check-valves: POM
- Filter: POM
- Connections:
  In -and outlet manifold: DZR Brass
  Tundish: PA66 GF30
- Pipework: Stainless steel braided Flexible hose / EPDM / Copper
- Finish: Powder coated
- Valves: Brass / PTFE

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

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* 22 mm copper compression, 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]
Flexfiller Direct G4	225	262	284	359	32	53	46	1/2" BSP	22 / 32 *	141	30

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





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Classification General Data

Etim Group	Pressure increase/decrease
Etim Class	Central heating refill installation
Product Name	Flexfiller Direct G4
Brand	FLAMCO
Product Type	Top Up Units
Artikelnummer	20100
GTIN	08712874201002

Attributes

Suitable for membrane pressure expansion tank	Yes
Suitable for compressor-controlled automatic expansion unit	Yes
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	Entry and exit
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 demineralization	No
Suitable for pH value stabilization	No
With pressure gauge	Yes
Suitable for fixed installation	Yes
Suitable for mobile use	No
With insulation	No

Find more information online:

Quick 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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