

The BOSS Direct G4 is the latest in pumpless digital pressurisation technology for light commercial and residential buildings. It's a slim, wall-mounted pumpless topup 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 comprehensively 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.
- 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).

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 a 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.
- 2 year warranty against manufacturing defects, can be extended to 5 years with a service contract.
- 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.
- Pre-approved in Severn Trent Water and Jersey Water Authority areas. For approval in other areas please consult with your local Water Authority and seek technical support from BSS Technical Teams if required.

Prior to order and installation,
please refer to
www.bssboss.co.uk/boss-direct-g4
for the latest status with your
Water Authority



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

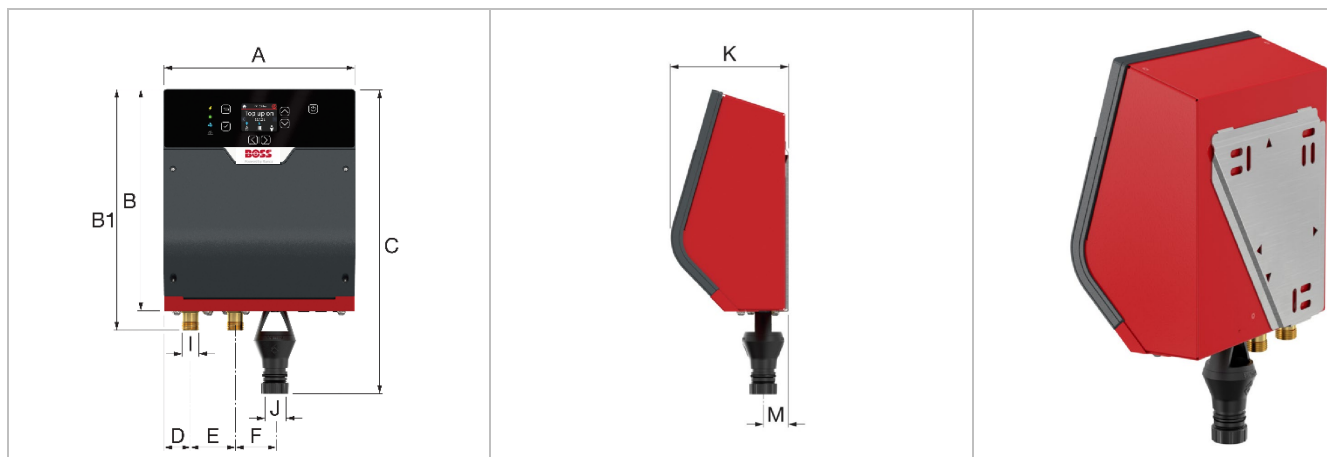
- Pre-approved in Severn Trent Water and Jersey Water Authority areas. For approval in other areas please consult with your local Water Authority and seek technical support from BSS Technical Teams if required.
- PED 2014/68/EU Sound Engineering Practice.
- IEE - Electrical Safety Guidance.
- EMC 2004/108/EC.
- BS 7074 Parts 1 to 3.
- BSRIA Guide BG82:2022
- 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.
- UKCA / 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: Inlet and outlet manifold: DZR Brass / Tundish: PA66 GF30
- Pipework: Stainless steel braided Flexible hose / EPDM / Copper
- Finish: Powder coated
- Valves: Brass / PTFE

Description		BOSS Direct G4
Order Code		03510596
Connections	System (mm)	15 (Compression)
	Mains Supply (mm)	15 (Compression)
	Drain / Tundish*	¾" 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.



Dimensions

Type	Dimensions										
	A	B	B1	C	D	E	F	I	J	K	M
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[BSP]	[mm]	[mm]	[mm]
BOSS Direct G4	225	262	284	359	32	53	46	½"	22/32*	141	30

* 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	BOSS Direct G4
Brand	BSS
Article Number	03510596

Attributes

Suitable for membrane pressure expansion tank	Yes
Connections	External thread ½" BSPP (ISO 228-1)
Nominal diameter	½" (15mm)
Outer pipe diameter (supply)	15mm
Outer pipe diameter (system)	15mm
With Filter	Yes
With automatic air vent	Yes
Inlet pressure range (mains/boosted supply)	0.5 to 6 bar
Maximum operating pressure (system)	10 bar
Drain tundish	Yes
Automatic filling function	Yes
Filling capacity	840 l/h
Category of system separation	Other
With Pressure reducer	No
Suitable for softening	No
Maximum inlet temperature	45 °C
Maximum system temperature	90 °C
Suitable for full demineralisation	No
Suitable for pH value stabilisation	No
With pressure gauge	Yes (Digital onscreen)
Suitable for fixed installation	Yes