

CIRCULATION UNIT

FIXED TEMPERATURE, SERIES GFF100



GFF111

PRODUCT DESCRIPTION

The ESBE series GFF100 is a circulation mixing unit which is intended for heating circulations where the constant temperature control are required. Equipped with two shut-off valves with thermometers, check valve and high class insulation shell. The GFF100 is delivered with the 3-way thermostatic valve, which provides constant temperature regulation of the heating system and adjustable temperature setting. The ESBE Circulation Unit GFF100 is ready to work with 180mm pumps. The smart adjustable insulation shell makes it sure that any kind of pump will be insulated in a right way.

KEY BENEFITS

- Constant temperature control thanks to the thermostatic valve
- Adjustable flow temperature settings
- 180mm pump ready – be free to use favorite pump manufacturer
- High class, adjustable insulation shell

SERVICE AND MAINTENANCE

The circulation unit does not require any specific maintenance under normal conditions.

RELATED ACCESSORIES

See separate data sheet for further detailed information.

ESBE Manifold

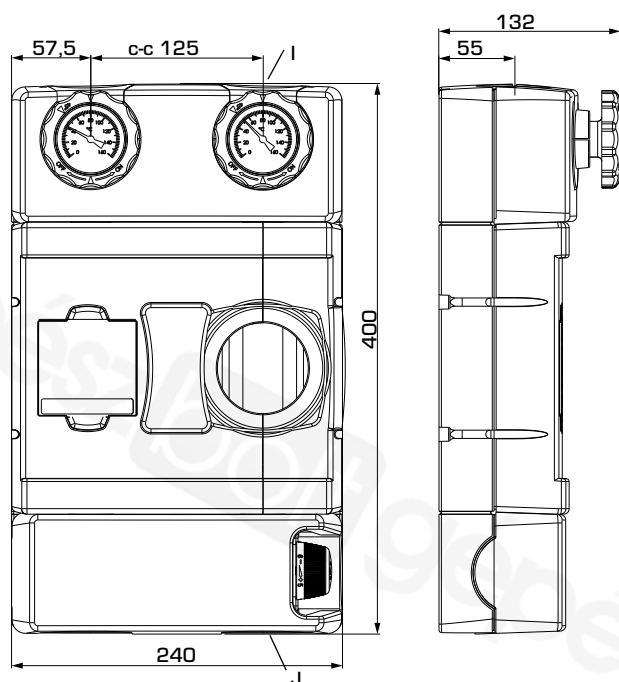
Manifold for 1, 2, or 3 circulation units. With integrated separator function.

Art. No.	
66001100	GMA411- for 1 unit
66001600	GMA521 - for 2 units
66001700	GMA531 - for 3 units

Manifold for 2, 3, 4 or 5 circulation units. Without integrated separator function.

Art. No.	
66001200	GMA421- for 2 units
66001300	GMA431 - for 3 units
66001400	GMA441 - for 4 units
66001500	GMA451 - for 5 units

PRODUCT ASSORTMENT



Installation dimensions for Circulation unit Series GFF100

SERIES GFF100

Art. No.	Reference	DN	Temperature range	Connections		Weight [kg]	Note
				I	J		
61220100	GFF111	25	20-55 °C	G 1"	G 1½"	3,8	

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TECHNICAL DATA



Visit esbe.eu for further detailed information.

The Circulation unit, in general:

Pressure class: _____ PN 6
 Media temperature: _____ max. +95°C
 _____ min. 0°C
 Ambient temperature: _____ max. °C / min. °C
 (depends on the electronic equipment)
 Working pressure: _____ 0,6 MPa (6 bar)
 Connections, _____ Internal thread (G), ISO 228/1
 _____ External thread (G), ISO 228/1
 Insulation: _____ EPP λ 0,036 W/mK
 Media: _____ Heating water (in accordance with VDI2035)
 _____ Water / Glycol mixtures, max. 50%.
 (above 20% admixture, the pump data must be checked)

Material, in contact with water:

Components of: _____ Brass, steel
 Sealing material of: _____ PTFE, Aramid fibre, EPDM

Conformities and certificates:

PED 2014/68/EU, article 4.3



EnEV 2014

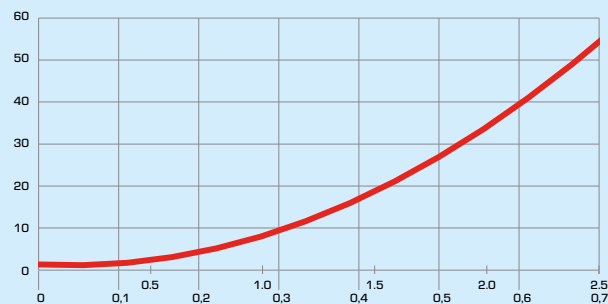
The integrated thermostatic mixing valve:

Max. differential pressure drop: _____ 100kPa (1bar)
 Temperature range: _____ 20-55°C
 Temperature stability: _____ $\pm 3^\circ\text{C}^*$

* Valid at unchanged hot/cold water pressure, minimum flow rate 9 l/min.
 Minimum temperature difference between hot water inlet and mixed water outlet 10°C.

CHARACTERISTICS

Pressure [kPa]



Flow
 [m³/h]
 [l/s]

INSTALLATION EXAMPLE

