CIRCULATION UNIT FIXED TEMPERATURE, SERIES GFA300



GFA311

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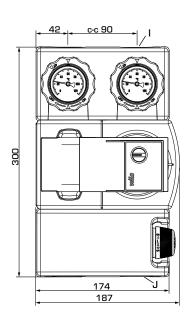
PRODUCT DESCRIPTION

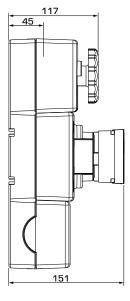
The ESBE series GFA300 is a circulation mixing unit designed for heating circuits, where the constant temperature control is required. Equipped with two shut-off valves with thermometers, check valve, high class insulation shell and high efficiency circulation pump. The GFA300 is delivered with the 3-way thermostatic mixing valve for constant temperature control of the heating circuit. The thermostatic mixing valve has adjustable temperature setting.

SERVICE AND MAINTENANCE

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

PRODUCT ASSORTMENT





GFA311

SERIES GFA300

Art. No.	Reference	DN	Pump	Temperature range	Conne I	ctions J	Weight [kg]	Note
61023100	GFA311	20	Wilo 15/7,5	20-55 °C	G ¾"	G 1"	4,0	

Thermostatic constant temperature control Adjustable temperature setting •

KEY BENEFITS

- High class insulation shell •
- High efficiency circulation pump •
- Compact design •



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TECHNICAL DATA

i Visit esbe.eu for further detailed information.

The Circulation unit, in general: Pressure class: PN 6	Material, in contact with water: Components of:
Media temperature: max. +110°C	Sealing material of:
	EEI (Energy Efficiency Index), Wilo circulation pump: Conformities and certificates: C € LVD 2014/35/EU EMC 2014/30/EU RoHS 2011/65/EU
Media: Heating water (in accordance with VDI2035) Water / Glycol mixtures, max. 50%. (above 20% admixture, the pump data must be checked) Water / Ethanol mixtures, max. 28%	PED 2014/68/EU, article 4.

ErP 2009/125/EU EMC 2014/30/EU ErP 2015 EnEV2014 RoHS 2011/65/EU EnEV 2014 PED 2014/68/EU, article 4.3

- L

The integrated thermostatic mixing valve:

Max. differential pressure drop:	100kPa (1bar)
Temperature range:	20-55°C
Temperature stability:	±3°C*

 \star 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.

PUMP WIRING* The integrated circulation pump: Wilo RSTG 15/7,5 Type: Power supply: 230 ± 10% V AC, 50/60 Hz Cable length: Зm Power consumption:__ 4-75 W (\mathbf{M}) Enclosure rating:_ IP X4D Insulation class: F EEI (Energy Efficiency Index): <0,21

Pumpspeed could be controlled by PWM signal

bn_PWM+

bk PWM-

Brass, Cast iron, Steel

_<0,21

PTFE, Aramid fibre, EPDM

* The circulation pump should be preceded by a multi-pole contact breaker in the fixed installation.



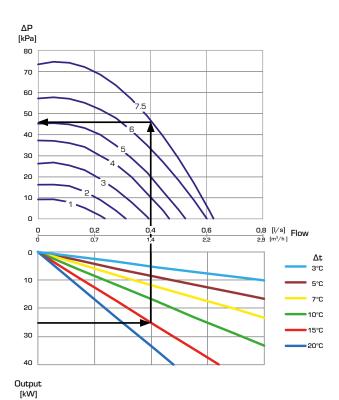
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DIMENSIONING, PUMP CAPACITY DIAGRAM

Example: Start with the heating demand of heating circuit (e.g. 25 kW) and move horizontally to the right in the diagram to the Δt = 15°C (temperature difference between flow and return of the heating circuit). Next go up and find working point and read the available pressure of the pump on the left – Δp = 47 kPa.

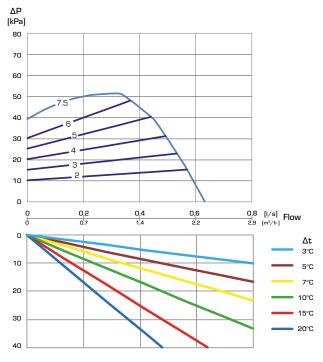
SERIES GFA300 - available pressure

Constant speed



SERIES GFA300 - available pressure

Variable pressure



Output [kW]



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INSTALLATION EXAMPLE

