ESBE SYSTEM UNITS

CIRCULATION UNIT FIXED TEMPERATURE

INSULATION

With all electrical components on the outside and the plumbing parts on the inside the insulation can truly work as intended, fulfilling the German Energy Saving Ordinance EnEV2014.





MADE IN SWEDEN

ESBE design and quality always assures our customers to expect only the best. Pre-assembled and leak proof tested.

HIGH EFFICIENCY CIRCULATION PUMP

The circulation unit is always delivered with ErP ready circulation pump, already today meeting the higher demands of the second step taking effect

THERMOSTATIC TEMPERATURE CONTROL

across Europe 2015.

• Adjustable constant temperature reachable from outside. · Anti-scald function to protect the

floor or other building materials.

OPERATION

The ESBE series GFA is a circulation unit with an adjustable constant outlet temperature used to keep the flow temperature at the set level regardless of pressure drop or flow volume. Equipped with High Efficiency circulation pump and a tailor-made insulation you can be sure that ESBE delivers the best circulation unit for both your economy as well as for the environment.

When designing the circulation unit product line the focus at ESBE has been to simplify assembly. This goes through the whole product from mounting brackets, insulation to packaging design.

KEY BENEFITS

- Easy installation; everything is ready and assembled out of the box. All connections have been leak proof tested. Just connect the four pipes and connect the power to the circulation pump and you are ready.
- Easy commissioning; all groups are equipped with an A-class pump which is easy to set at the right mode and include a venting function to push air out to the venting valve of the system.
- · Easy maintenance; shut off valves for all service and maintenance without draining the heating system.
- · Reliable function and elegant look ; ESBE Quality and ESBE Design behind. Made in Sweden
- · Pre-assembled, tightness-tested and heat-insulated assembly
- ErP-Ready high efficiency circulation pump and insulation that truly work as intended, fulfilling the German EnEV2014 directive. Taking our green footprint seriously.
- Integrated gravity brake.

VERSIONS



ESBE Series GFA100 Circulation unit intended for fixed temperature operation.



ESBE SYSTEM UNITS

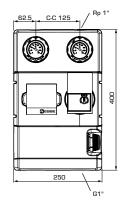
CIRCULATION UNIT FIXED TEMPERATURE

PRODUCT ASSORTMENT

ESBE Circulation unit – Fixed temperature

Art. No		102 01 00 GFA111
DN		25
Power range		
at 2150 l/h	with △t 20 K	_ 50 kW ^{1]}
	with ∆t 10 K	25 kW 1)
	with ∆t 5 K	12 kW ^{1]}
	1) system pressur	e loses: O kPa
at 1600 l/h	with \triangle t 20 K	35 kW ²⁾
	with △t 10 K	18 kW ²⁾
	with $ riangle t$ 5 K	
	²⁾ system pressure	
Weight		5.4 kg
		0







RELATED ACCESSORIES

See separate data sheet for further detailed information.

ESBE Manifold
Manifold for 2 or 3 circulation units. With or without

integrated separator functio	n.
Ref. GMA121	Art. No. 6600 01 00
Ref. GMA131	Art. No. 6600 02 00
Ref. GMA221	Art. No. 6600 03 00
Ref. GMA231	Art. No. 6600 04 00

ESBE Manifold connection, Fixed temperature unit

Connections between manifold and circulation unit (2 connections/package).

Ref. KGT111_____ Art. No. 6610 01 00



TECHNICAL DATA

1 Visit esbe.eu for further detailed information.

The circulation unit, in gen Pressure class:	
	max. (continuously) +110°C
	mbient temperature is max. 50°C
wiioir di	min. O°C
Working pressure:	0.6 MPa (6 bar)
	External thread, ISO 228/1
	Internal thread, EN 10226-1
Insulation:	FPP) 0 036 W//mK
	EFF #0.000 W/ Mix
The integrated thermostat	cic mixing valve:
The integrated thermostat Temperature range:	cic mixing valve:
The integrated thermostat Temperature range: Max. media temperature:	cic mixing valve: 20-43°C
The integrated thermostat Temperature range: Max. media temperature: The integrated circulation	tic mixing valve: 20-43°C continuously 95°C temporarily 100°C pump:
The integrated thermostat Temperature range: Max. media temperature: The integrated circulation	cic mixing valve: 20–43°C continuously 95°C temporarily 100°C
The integrated thermostat Temperature range: Max. media temperature: The integrated circulation Power supply:	tic mixing valve: 20-43°C continuously 95°C temporarily 100°C pump:

Material, in contact with water: Components of:

_____Brass, Iron _____ PTFE, Aramid fibre, EPDM

Conformities and certificates: PED 97/23/EC, article 3.3

CE LVD 2006/95/EC EMC 2004/108/EC RoHS 2011/65/EC

Sealings material of:

ErP 2009/125/EC ErP 2015

Min. media temperature: _____ 0°C Temperature stability: _____ ±3°C

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



SERVICE AND MAINTENANCE

Protection class:

Characteristics:

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



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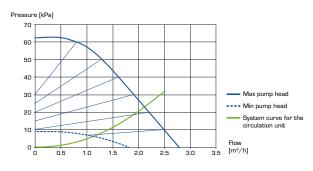
_See diagram below

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CHARACTERISTICS

The flowrate for the integrated circulation pump and system curve for the circulation unit.



INSTALLATION EXAMPLES

