



ESBE AB
Bruksgatan 22
SE-333 75 Reftele
www.esbe.eu



ESBE System Units
CIRCULATION UNITS
SERIES GxA390

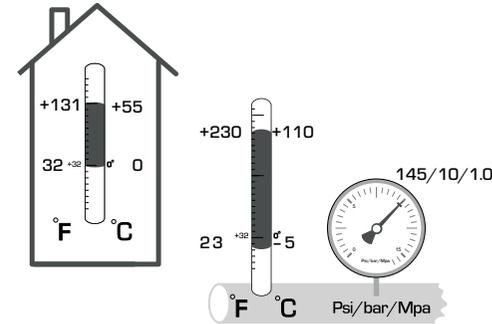


Series GDA390
Series GRA390

Series GFA390



PED 2014/68/EU, article 4.3
EnEV 2014

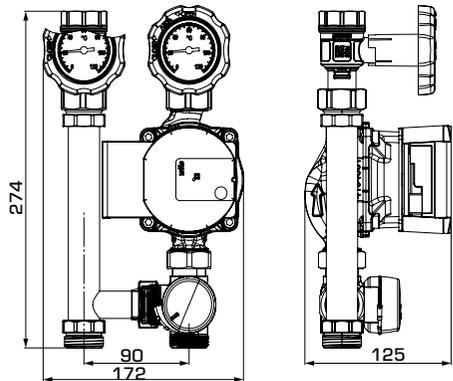


SERIES	FUNCTION
ESBE GDA394	
ESBE GRA394	
ESBE GFA394	

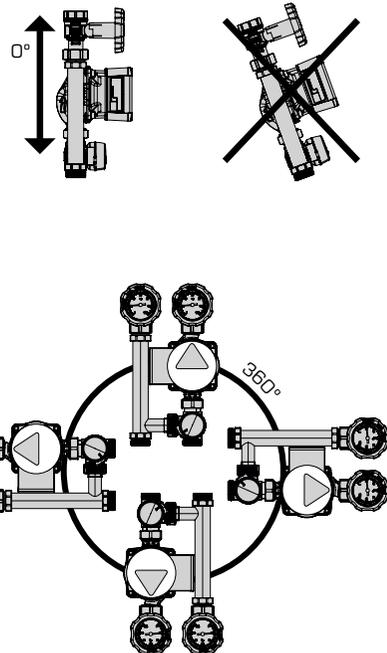
Mtrl.no. 98141147 • Dwg. 11040 • vers. B • Rev. 2025-04-17



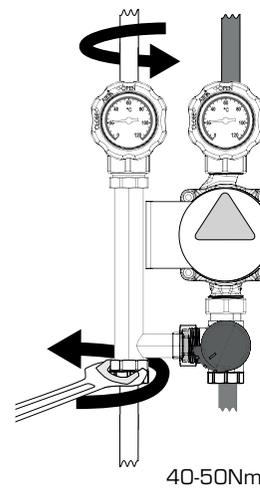
Dimensions



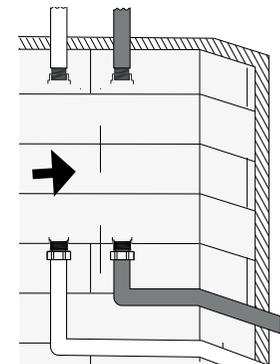
Mounting position



Fit supply pipes



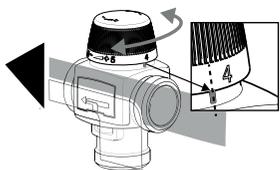
c/c 90mm



2

Commissioning fixed temperature

Series GFA390



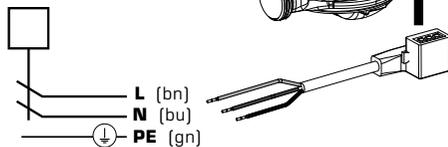
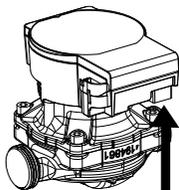
0,5	1	2	3	4	5	6
22°C	25°C	33°C	40°C	47°C	54°C	60°C



<https://www.esbe.eu/global/en/products/thermostatic-mixing-valves>

3

Electric installation



www.esbe.eu

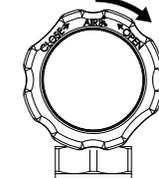
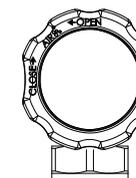
4

Commissioning

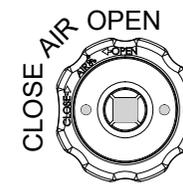
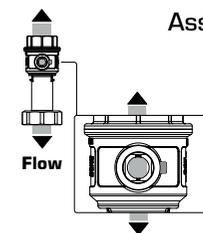
Preparation



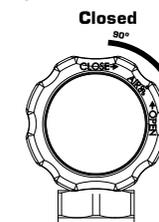
Filling and venting



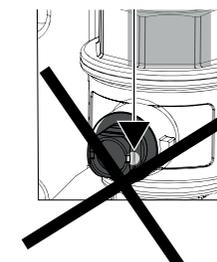
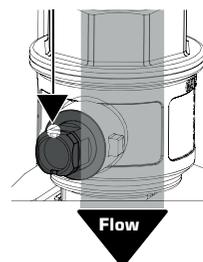
Assemble removed knob



Checkvalve position

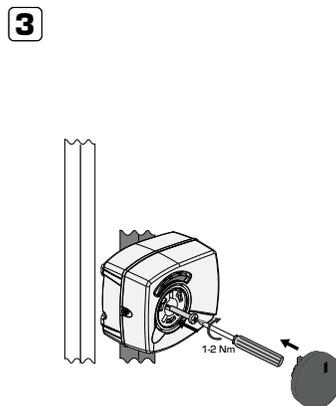
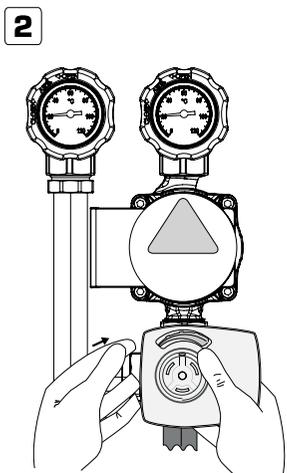
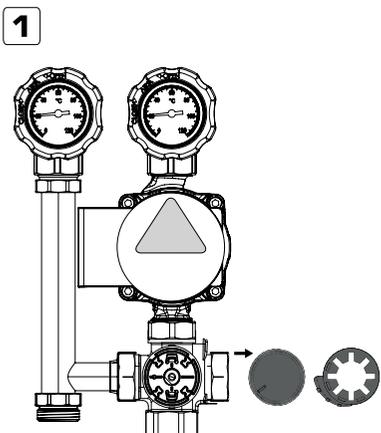


White mark, indicate check valve position



OPTIONAL

Assemble actuator/controller



<https://esbe.eu/group/products/controllers>



<https://esbe.eu/group/products/rotary-actuators>



Wilo Display

NORMAL OPERATION FAULT

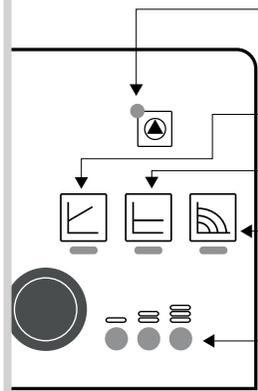


CONTROL MODE
Variable differential pressure - $\Delta p-v$

Constant differential pressure - $\Delta p-c$

Constant speed

PUMP CURVE
I, II, III



Pump Settings

Hold

LED display

Hold 9 sec			Locked	
Hold 8 sec			Unlocked	
Hold 3 sec			Venting	
Hold 5 sec			Manual restart	
1. Hold 2. 3. 4.			Factory setting	



Settings navigations

Click

LED display

Control mode

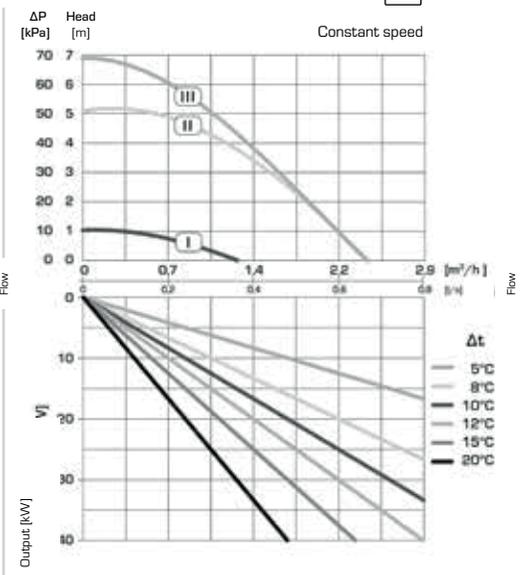
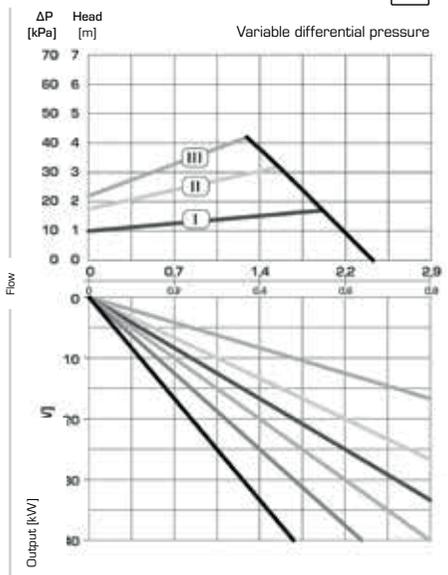
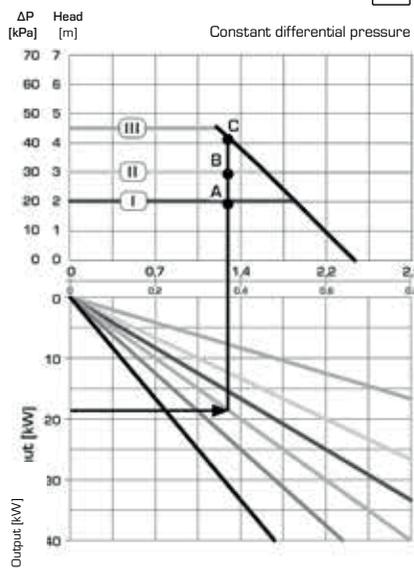
Pump curve

Click	LED display	Control mode	Recommended	Alternative
1		Constant speed		
2		Constant speed		
3		Variable differential pressure $\Delta p-v$		
4		Variable differential pressure $\Delta p-v$		
5		Variable differential pressure $\Delta p-v$		
6		Constant differential pressure $\Delta p-c$		
7		Constant differential pressure $\Delta p-c$		
8		Constant differential pressure $\Delta p-c$		
9		Constant speed		



Circulation Unit Performance

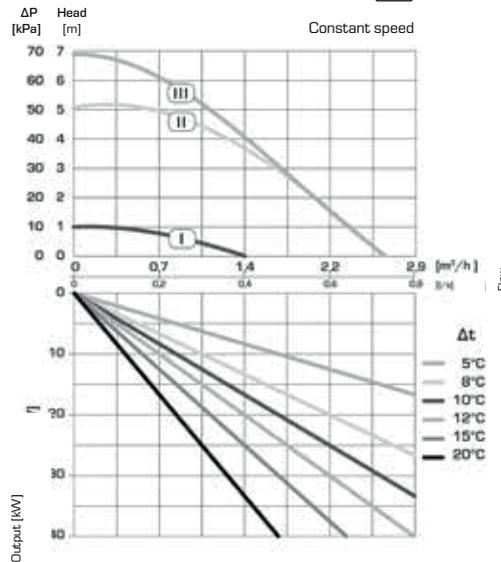
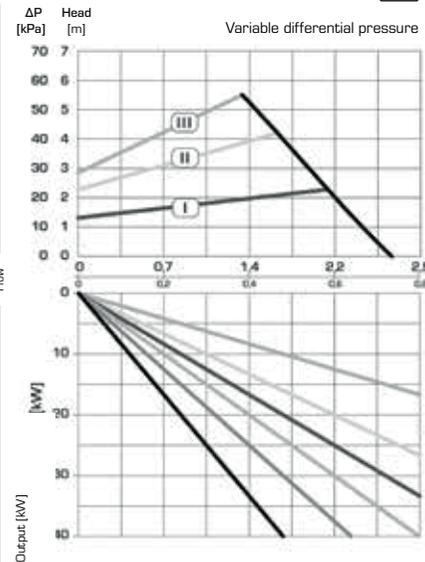
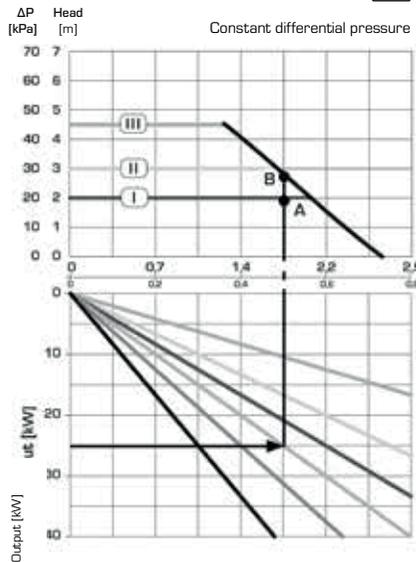
Heating output **GRA394** MIXING FUNCTION





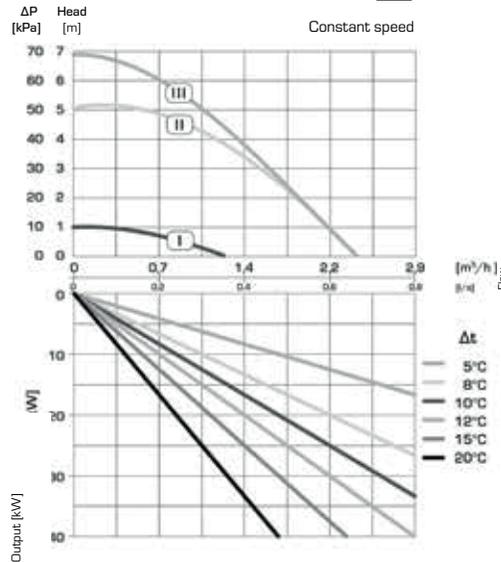
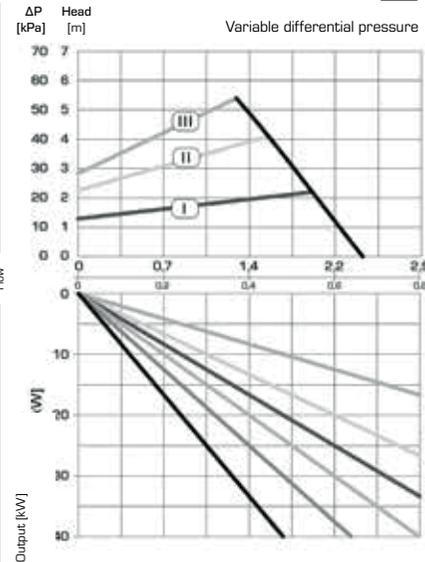
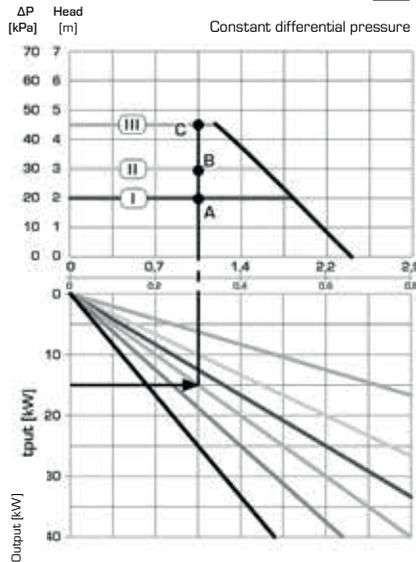
Circulation Unit Performance

Heating output **GDA394** DIRECT SUPPLY



Circulation Unit Performance

Heating output **GFA394** FIXED TEMPERATURE



WILO - Faults, Causes and Remedies

LED	Faults	Cause	Remedy
Lights up red	Blocking	Rotor blocked	Activate manual restart or contact customer service
	Contacting/ winding	Winding defective	
Flashes red	Under/overvoltage	Power supply too low/ high on mains side	Check mains voltage and operating conditions, and request customer service
	Excessive module temperature	Module interior too warm	
	Short-circuit	Motor current too high	
Flashes red/green	Generator operation	Water is flowing through the pump hydraulics, but there is no mains voltage at the pump	Check the mains voltage, water quantity/pressure and the ambient conditions
	Dry run	Air in the pump	
	Overload	Sluggish motor, pump is operated outside of its specifications (e.g. high module temperature). The speed is lower than during normal operation	



http://www.esbe.eu/global/en/products/circulation_units



Name plate

