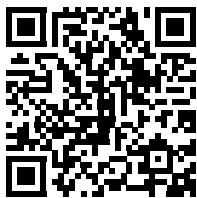




ESBE AB  
Bruksgatan 22  
SE-333 75 Reftele  
www.esbe.eu



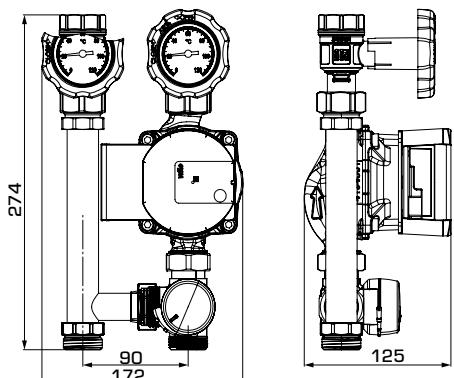
ESBE System Units  
CIRCULATION UNITS

### SERIES GxA390

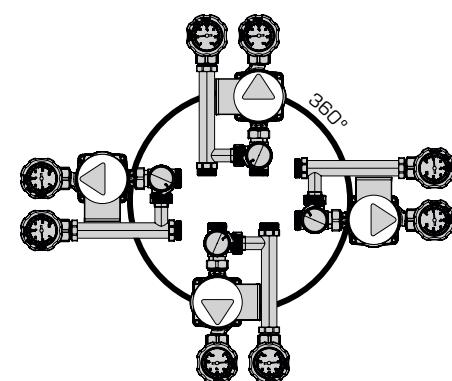
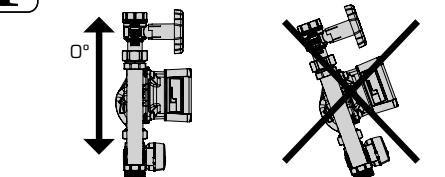


Mtrl.no. 98141147 • Dwg. 11040 • vers. A • Rev. 2024-04-10

#### Dimensions



#### Mounting position



Series GDA390  
Series GRA390

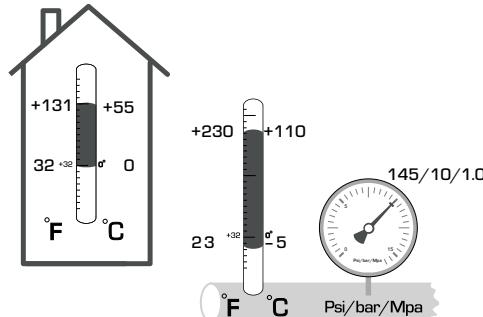
Series GFA390

**CE** LVD 2014/35/EU  
EMC 2014/30/EU  
RoHS3 2015/863/EU  
ErP 2009/125/EU

**UK** SI 2016 No. 1101  
SI 2016 No. 1091  
SI 2012 No. 3032  
SI 2010 No. 2617

**CA** SI 2016 No. 1105

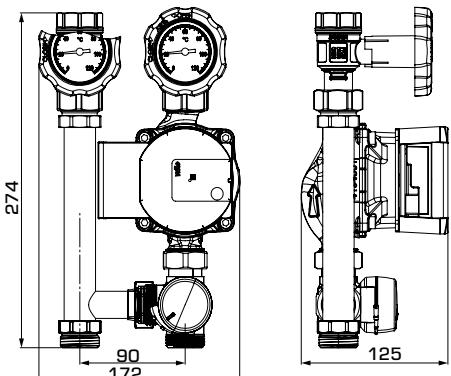
PED 2014/68/EU, article 4.3  
EnEV 2014



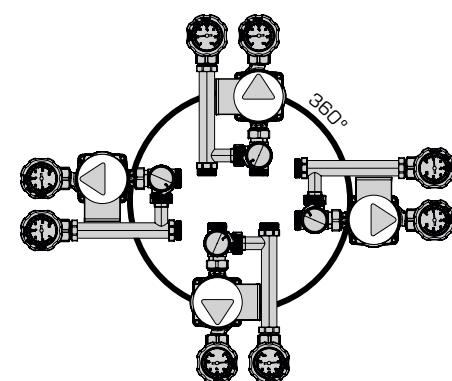
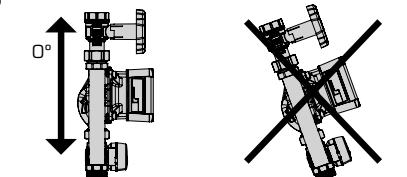
| SERIES      | FUNCTION |
|-------------|----------|
| ESBE GDA394 |          |
| ESBE GRA394 |          |
| ESBE GFA394 |          |



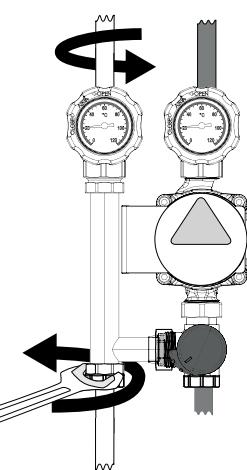
#### Dimensions



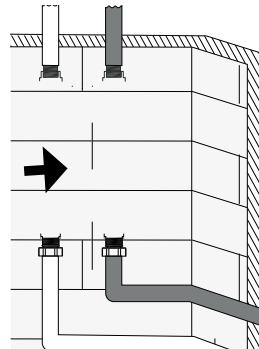
#### Mounting position



#### Fit supply pipes



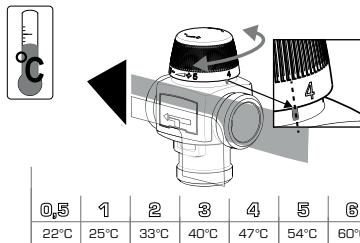
c/c 90mm



**2**

## Commissioning fixed temperature

Series GFA390

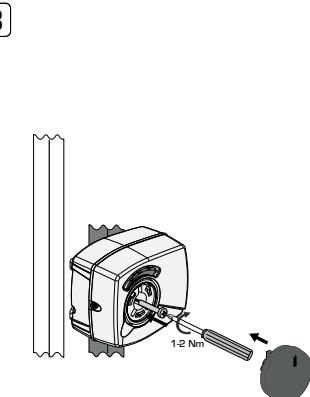
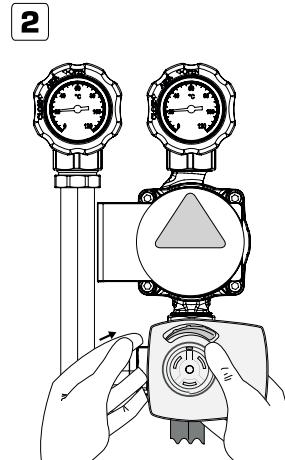
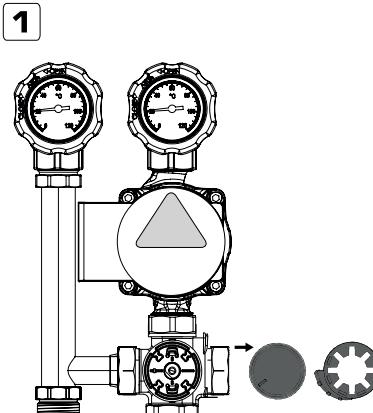


<https://www.esbe.eu/global/en/products/thermostatic-mixing-valves>

**i**

## OPTIONAL

### Assemble actuator/controller



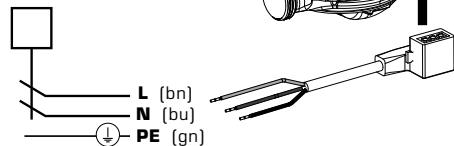
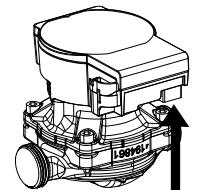
<https://esbe.eu/group/products/controllers>



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

**3**

## Electric installation



**i** [www.esbe.eu](http://www.esbe.eu)

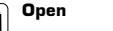
**4**

## Commissioning

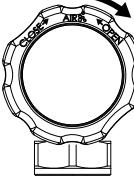
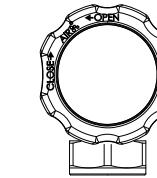
### Preparation



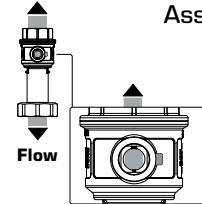
### Filling and venting



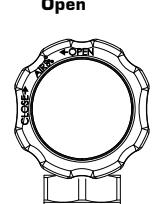
### Filling and venting



### Assemble removed knob



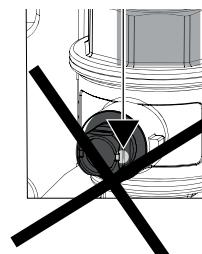
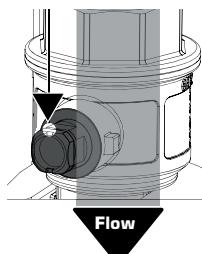
### Checkvalve position



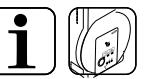
### Open

### Closed

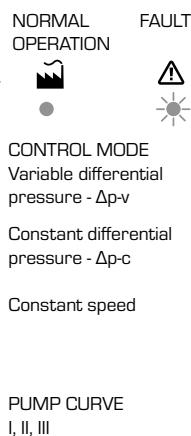
### White mark, indicate check valve position



Flow



## Wilo Display



5

## Pump Settings

| Hold                 | LED display | Status          |
|----------------------|-------------|-----------------|
| Hold 9 sec           |             | Locked          |
| Hold 8 sec           |             | Unlocked        |
| Hold 3 sec           |             | Venting         |
| Hold 5 sec           |             | Manual restart  |
| 1. Hold 2. +  3.  4. |             | Factory setting |

6

## Settings navigations



Click



LED display



Pump curve

Control mode

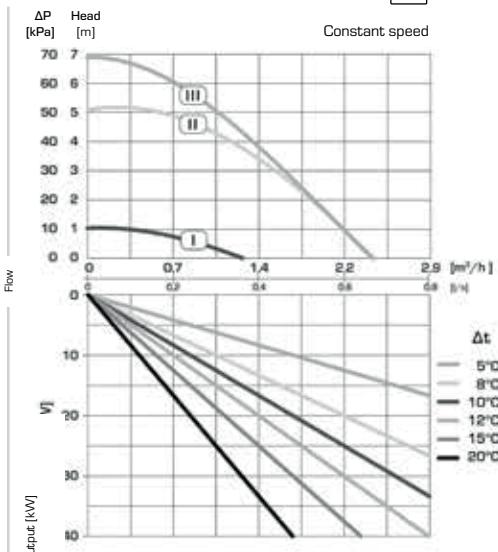
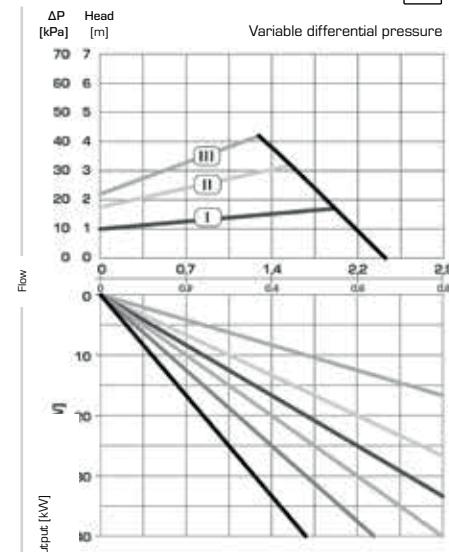
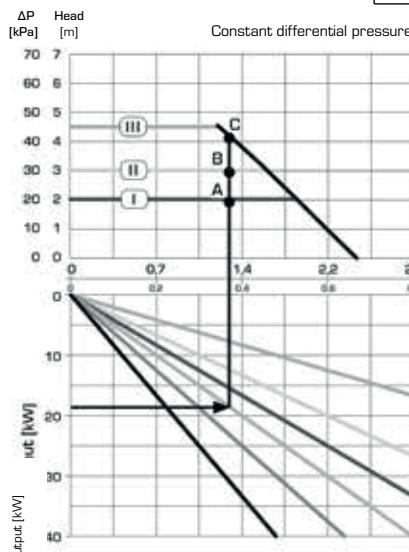
Recommended Alternative

|          |  |   |
|----------|--|---|
| 1. Click |  | Constant speed                              |
| 2. Click |  | Constant speed                              |
| 3. Click |  | Variable differential pressure $\Delta p_v$ |
| 4. Click |  | Variable differential pressure $\Delta p_v$ |
| 5. Click |  | Variable differential pressure $\Delta p_v$ |
| 6. Click |  | Constant differential pressure $\Delta p_v$ |
| 7. Click |  | Constant differential pressure $\Delta p_v$ |
| 8. Click |  | Constant differential pressure $\Delta p_v$ |
| 9. Click |  | Constant speed                              |



## Circulation Unit Performance

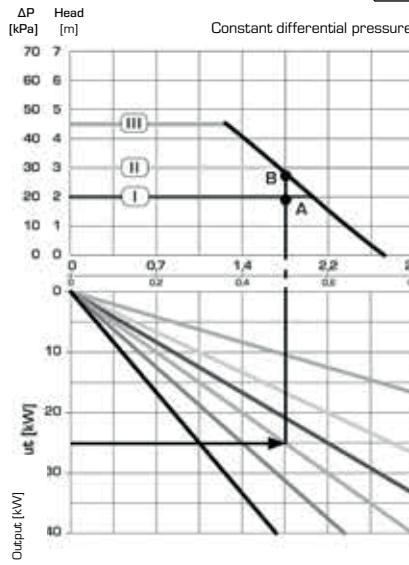
Heating output GRA394 MIXING FUNCTION





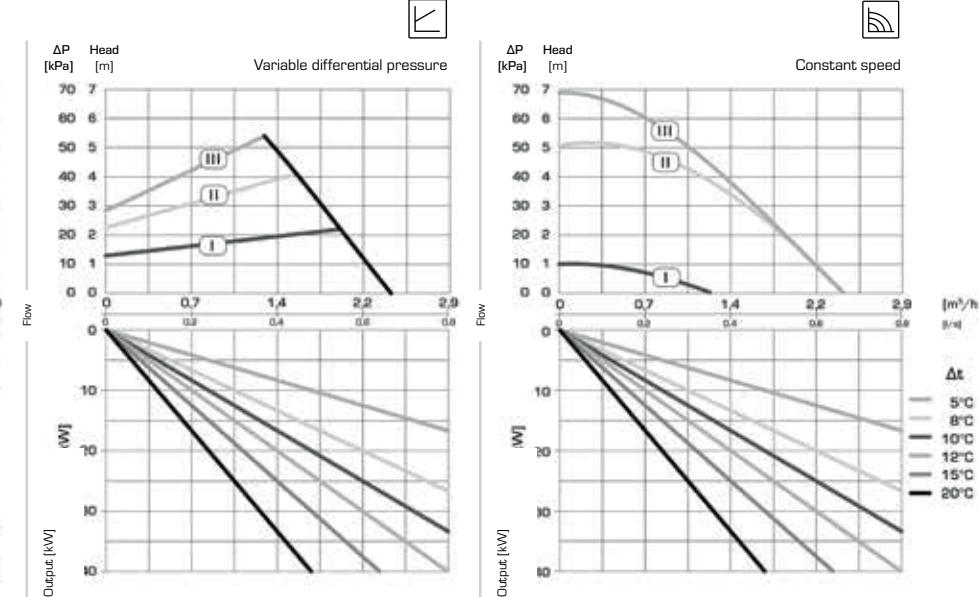
## Circulation Unit Performance

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   |   |
|                    | Excessive module interior temperature | Module interior too warm   | Check mains voltage and operating conditions, and request customer service  |
| Flashes red/ green | Short-circuit                         | Motor current too high   |   |
|                    | Generator operation                   | Water is flowing through the pump hydraulics, but there is no mains voltage at the pump  |   |
|                    | Dry run                               | Air in the pump  | Check the mains voltage, water quantity/pressure and the ambient conditions |
|                    | 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

