Manuals+ — User Manuals Simplified.

CRA122 Series Setpoint Temperature Controller

ESBE CRA122 Series Setpoint Temperature Controller Instruction Manual

Contents

ESBE CRA122 Series Setpoint Temperature Controller

Specification

- Ambient temp: 23°F to 131°F (-5°C to 55°C)
- Flow temp. range: 4°F to 200°F (5°C to 95°C)
- Power supply: 24 ± 10%, 60 Hz
- Power consumption: 3VA
- Max run time at max speed: 120 seconds
- Weight: 2 lbs (0,9 kg)
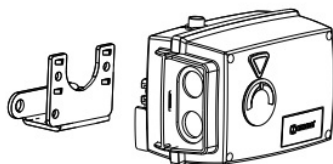
3MG, 4MG

3G, 4G

3F, 4F up to 6"

VRG valves + Mounting Kit
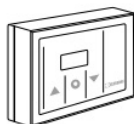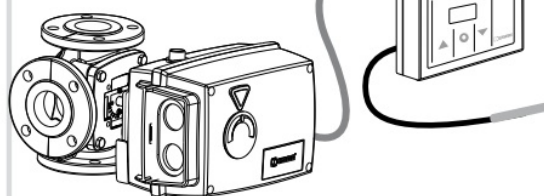(ordered separately
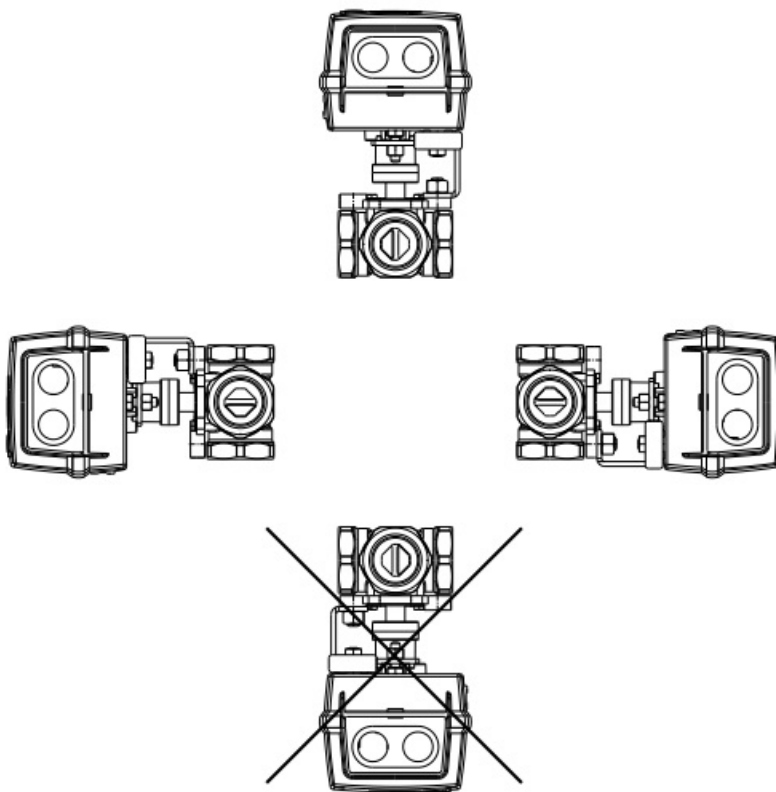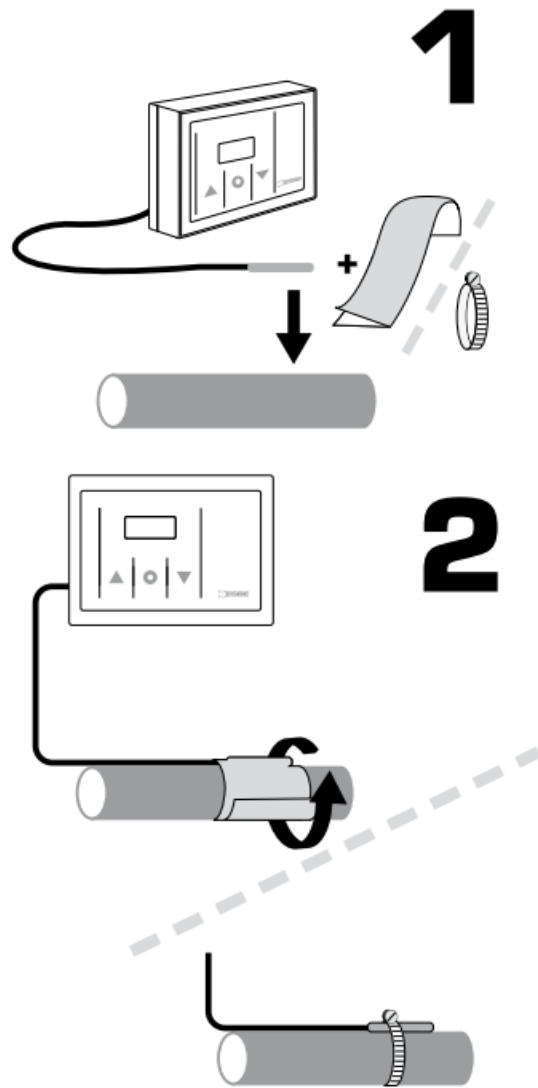code NO: 193B1616)

CRA122 Package Contents

1

2

3

Power source
24 VAC

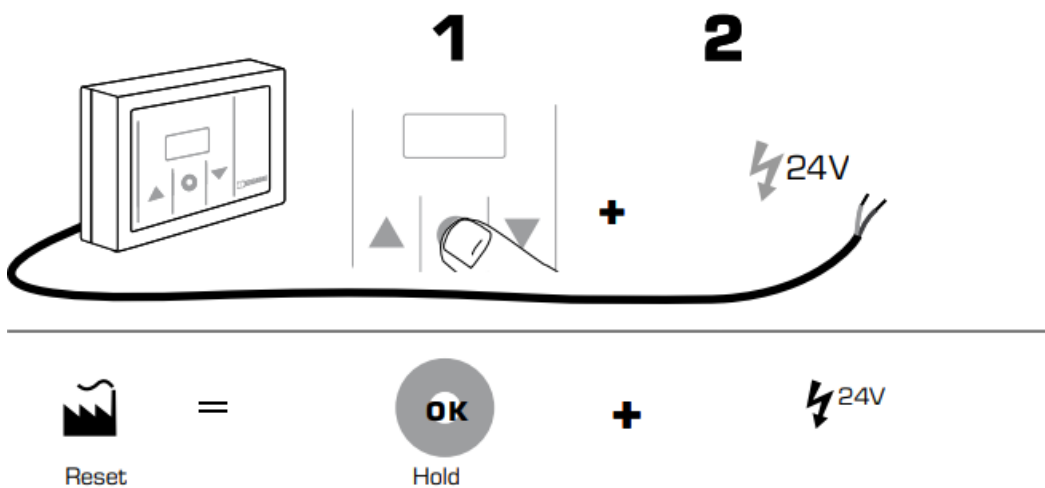**Assembly Orientation**
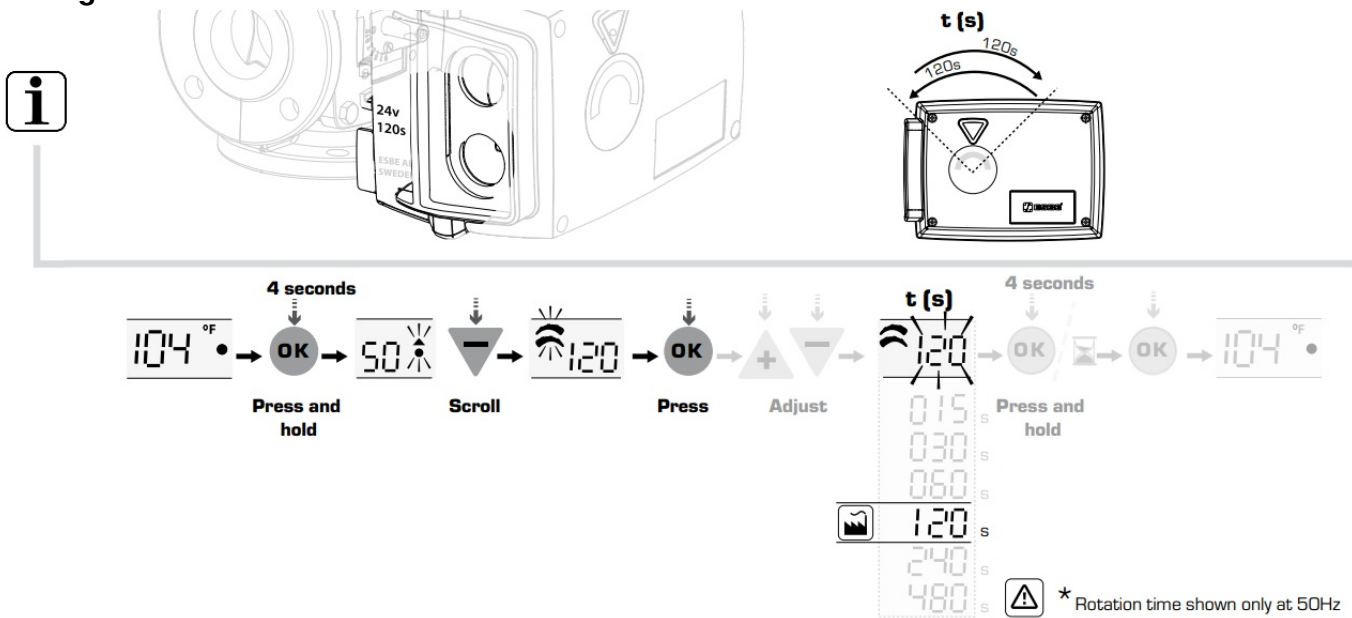
Temperature Sensor Installation

Wiring

Secondary Temperature Setpoint

Temperature sensor

Temp.sensor

T2

Supply

Actuator

24V~ 24V~

Open N Close

24 VAC Power Source
min 3VA rating

min. Standard
18 AWG-Solid wire
for low voltage wiring

Open N Close
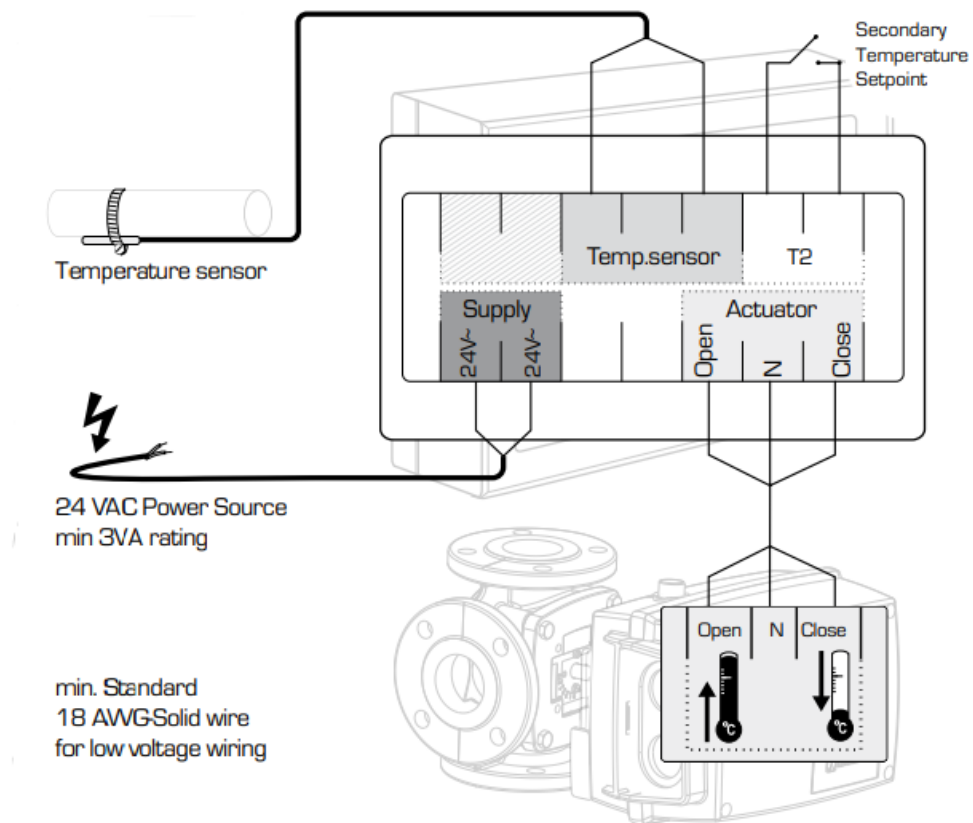
Selection Buttons

+ OK −

Factory Reset

1 **2**

🏭 **=** **OK** **+** ⚡24V
Reset   Hold
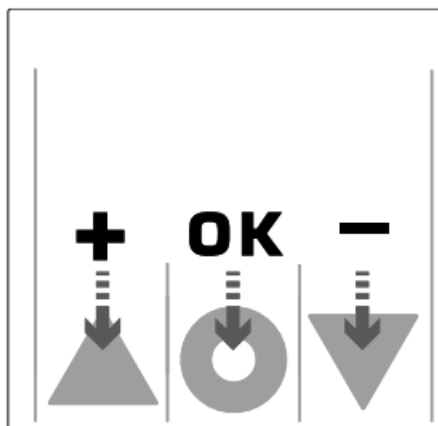
Setting Rotation Time

24VAC	
*at 50Hz	at 60Hz
15 sec	12 sec
30 sec	25 sec
60 sec	50 sec
120 sec	100 sec
240 sec	200 sec
480 sec	398 sec

Maximum Temperature Limitation

i ● = MAX °F

Default: 120°F (49°C)
Maximum temperature
Setting: 200°F (95°C)

4 seconds → **MAX** → OK → + − → OK → Wait / **4 seconds** Press and hold

104 °F → OK → 122 → OK → + − → 125 → OK → Wait / OK → 104 °F
Press and hold | Press | Adjust | Press | Press and hold

i ● = MIN °F

Default: 41°F (5°C)
Minimum temperature
Setting: 41°F (5°C)

104 °F → OK → 122 → + → 41 → OK → + − → 75 → OK → Wait / OK → 104 °F
Press and hold | Scroll | Press | Adjust | Press | Press and hold

Changing of Setpoint

i

T °F

104 °F → + − → 108 → OK → Wait → 108 °F
Adjust | Press
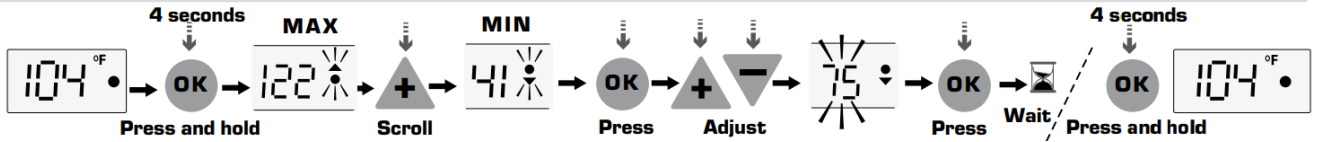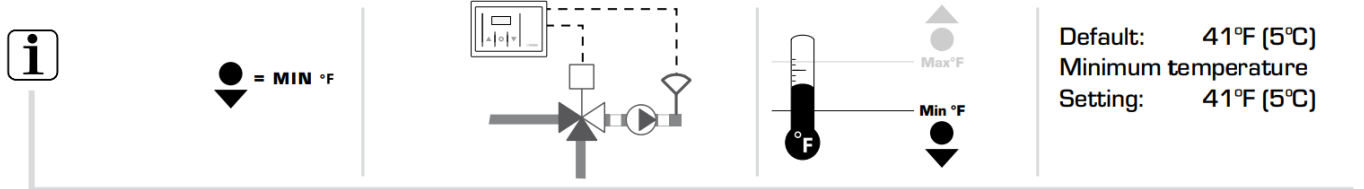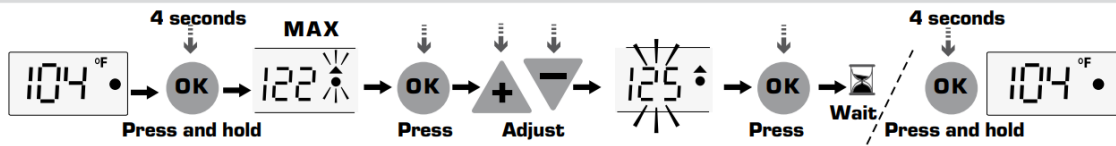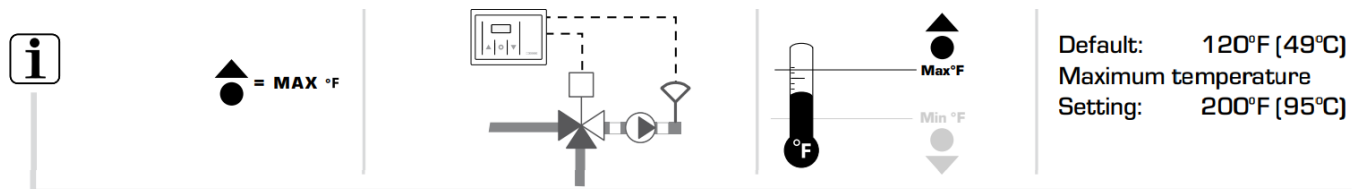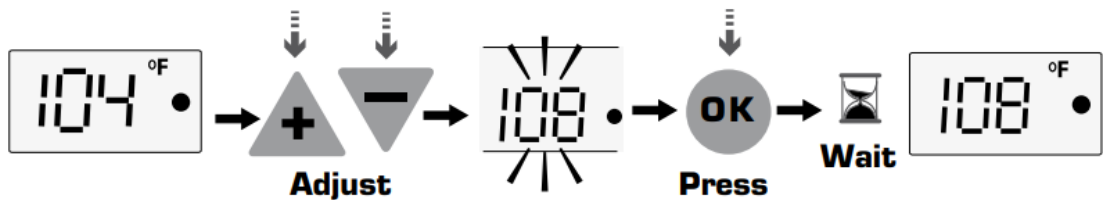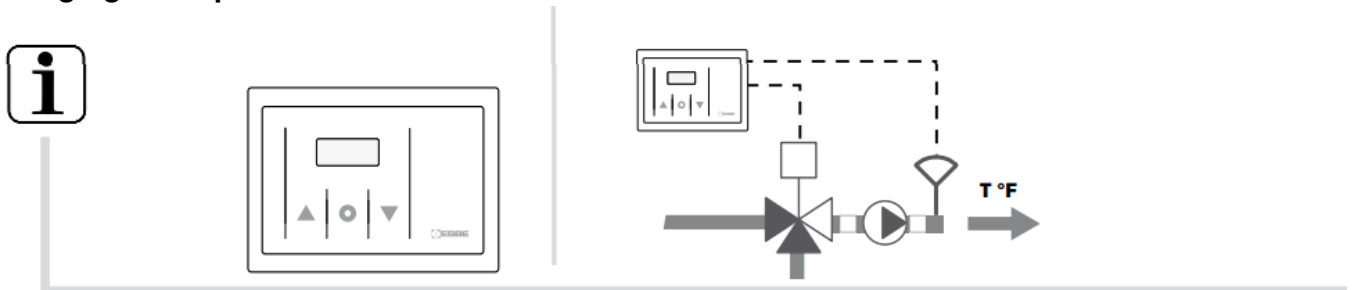
°F / °C Temperature Unit Display

10 seconds

104 °F → OK → 104 °F → − → °F → OK → + − → OK → Wait → 40 °C
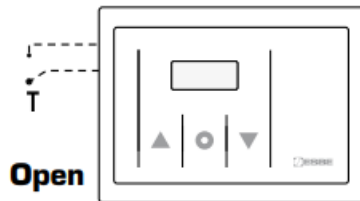Press and hold | Scroll | Press | Adjust | Press | Wait
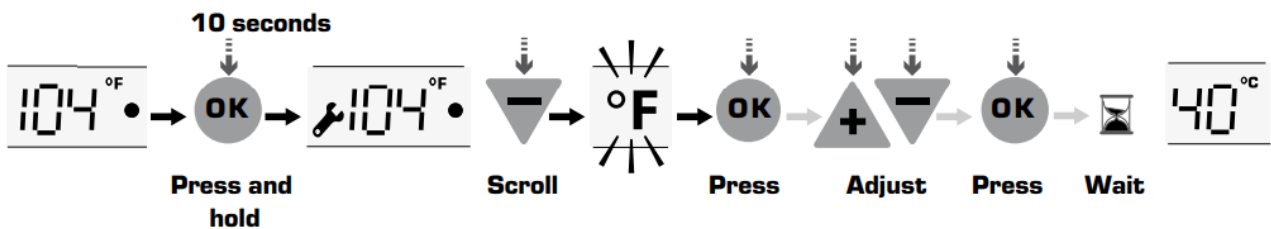
T2, Secondary Temperature Setpoint
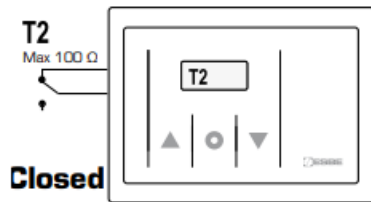
T2: Secondary Temperature Setting
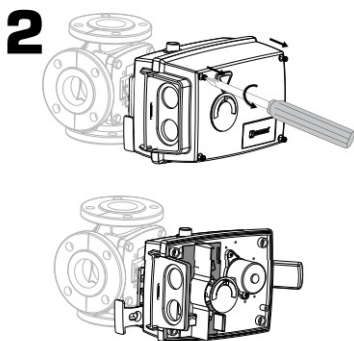
Externally Wired Relay

Closed

Adjust → Press → Wait
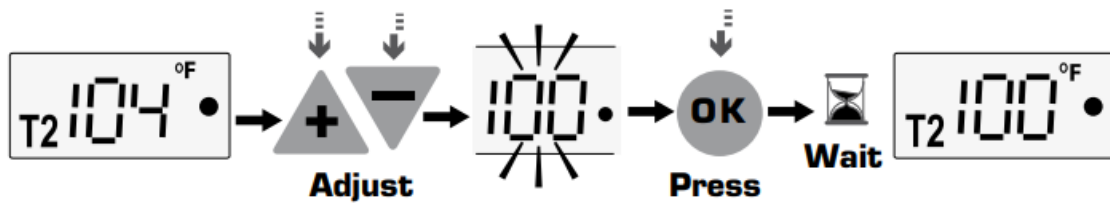
T: Primary Temperature Setting

Open

Adjust → Press → Wait
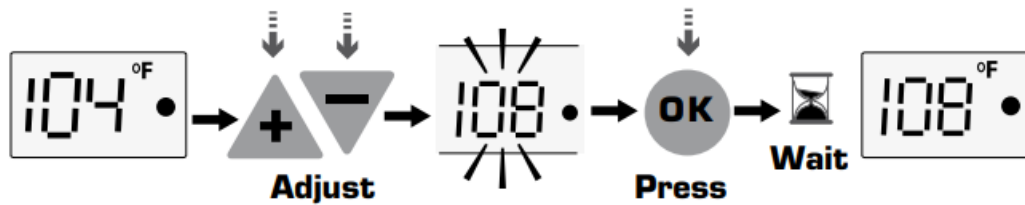
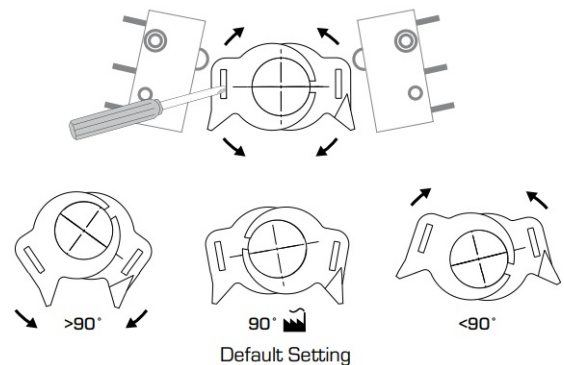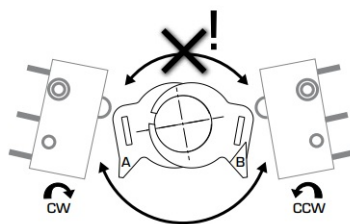## Actuator Rotation Adjustment

if actuator rotation requires more than or less than 90° actuator rotation

1 Remove power to the actuator

2

3

CW   A   B   CCW

>90°   90° Default Setting   <90°
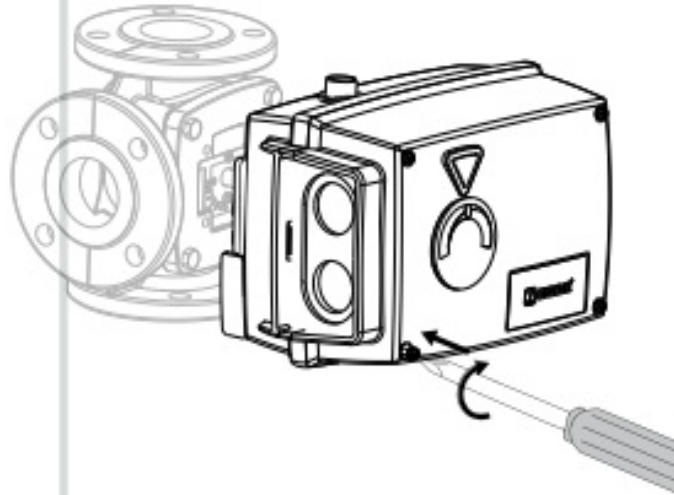
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- **www.NA.Heating.Danfoss.com**
- **www.esbe.eu**

Frequently Asked Questions

- **Q: How do I reset the controller to factory settings?**
  - A: To perform a factory reset, press and hold the reset button for a few seconds until the device resets.
- **Q: What is the power source requirement for the CRA122?**
  - A: The CRA122 requires a power source of 24 VAC for operation.
- **Q: How do I install the temperature sensors?**
  - A: Wrap the temperature sensor properly and follow the installation instructions provided in the manual for accurate installation.

Documents / Resources
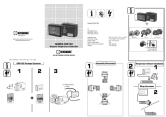
ESBE CRA122 Series Setpoint Temperature Controller [pdf] Instruction Manual
CRA122, CRA100, CRB100, CRA122 Series Setpoint Temperature Controller, CRA122 Series,
Setpoint Temperature Controller, Temperature Controller

References

- **User Manual**