



## ESBE CRC110 Controller Unit Installation Guide

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**CONTROLLERS  
SERIES CRC110**



CRC111  
230 VAC

ESBE series CRC110 is a combined actuator and a weather compensating control unit with quick and simple installation. Settings are done by an easy-to-use joystick and display interface. For valves up to DN50, especially suited for ESBE valves series VRG and series VRB.

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## OPERATION

The ESBE series CRC110 is designed to provide a high level of comfort thanks to the possibility to set a perfect characteristic heating curve and at the same time provide energy savings for the house owner. The controller consists of two parts:

- actuator unit, to be mounted to the mixing valve controlling the heat supply.
- outdoor sensor, to be mounted on the north side of the building

The regulation is based on outdoor sensor feedback and an adjustable characteristic heating curve. An offset/parallel adjustment of the characteristic heating curve may be activated by an external signal for example night settings. For applications with well-insulated buildings and quick heating systems such as radiator circuits can a temperature filter be activated to delay an outdoor temperature change to avoid an imbalance between estimated and actual heating demand.

## MOUNTING

Power supply by 230 V AC adapter (complete with transformer, cable and wall socket plug). Flow pipe sensor with 1,5m cable included (longer cable available as accessory). The sensor must be carefully insulated from ambient temperature.

Outdoor sensor with 20 m cable. The sensor shall be mounted on the north side of the building under the eaves in order to protect the sensor from direct sunlight and rain.

Thanks to the special interface between the controller series CRC110 and the ESBE valve series VRG, VRB, and VRH, the unit as a whole has unique stability and precision when regulating.

## OPTIONAL EQUIPMENT

Art. No.

16200700 \_\_\_\_\_ ARA801 Auxiliary switch kit

17053100 \_\_\_\_\_ CRA911 Flow pipe sensor, 5m cable

## SUITABLE MIXING VALVES

Series VRG100 Series VRG200 Series VRG300 Series VRH100 Series VRB100	Series MG* Series G Series F ≤ DN50 Series BIV Series T and TM Series H and HG * Not 5MG
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## ADAPTOR KITS

Required adaptor kits for easily fitting onto an ESBE rotary mixing valve series VRG, VRB, and VRH is supplied with each controller. Adaptor kits can also be ordered separately.

Art. No.

16000500 \_\_\_\_\_ ESBE valve series VRG, VRH, VRB, G, MG, F, BIV, T, TM, H, HG

Adaptor kits for other mixing valves are available as follows:

Art. No.

16000600 \_\_\_\_\_ Meibes

16000700 \_\_\_\_\_ Watts

16000800 \_\_\_\_\_ Honeywell Corona

16000900 \_\_\_\_\_ Lovato

16001000 \_\_\_\_\_ PAW

16001100 \_\_\_\_\_ Wita Minimix, Maximize

## TECHNICAL DATA

Ambient temperature: \_\_\_\_\_ max. +55°C \_\_\_\_\_ min. -5°C

Temperature range,

Flow pipe sensor: \_\_\_\_\_ +5 to +95°C

Outdoor sensor: \_\_\_\_\_ -50 to +70°C

Enclosure rating: \_\_\_\_\_ IP41

Protection class: \_\_\_\_\_ II

Power supply: \_\_\_\_\_ 230 ± 10% V AC, 50 Hz

Power consumption – 230 V AC: \_\_\_\_\_ 10 VA

Torque: \_\_\_\_\_ 6 Nm

Running time at max. speed: \_\_\_\_\_ 30s

ERP Temperature controls class: \_\_\_\_\_ III

Energy efficiency contribution: \_\_\_\_\_ 1,5%

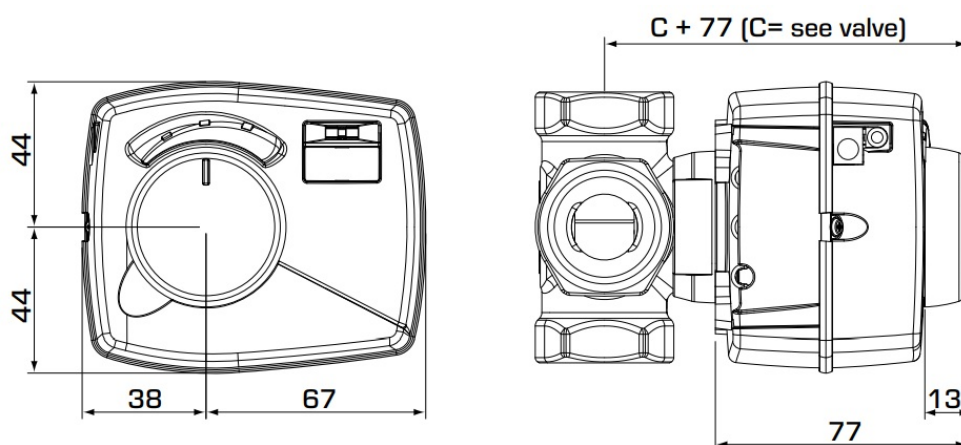
Weight: \_\_\_\_\_ 0,9 kg



LVD 2014/35/EU

EMC 2014/30/EU

RoHS3 2015/863/EU

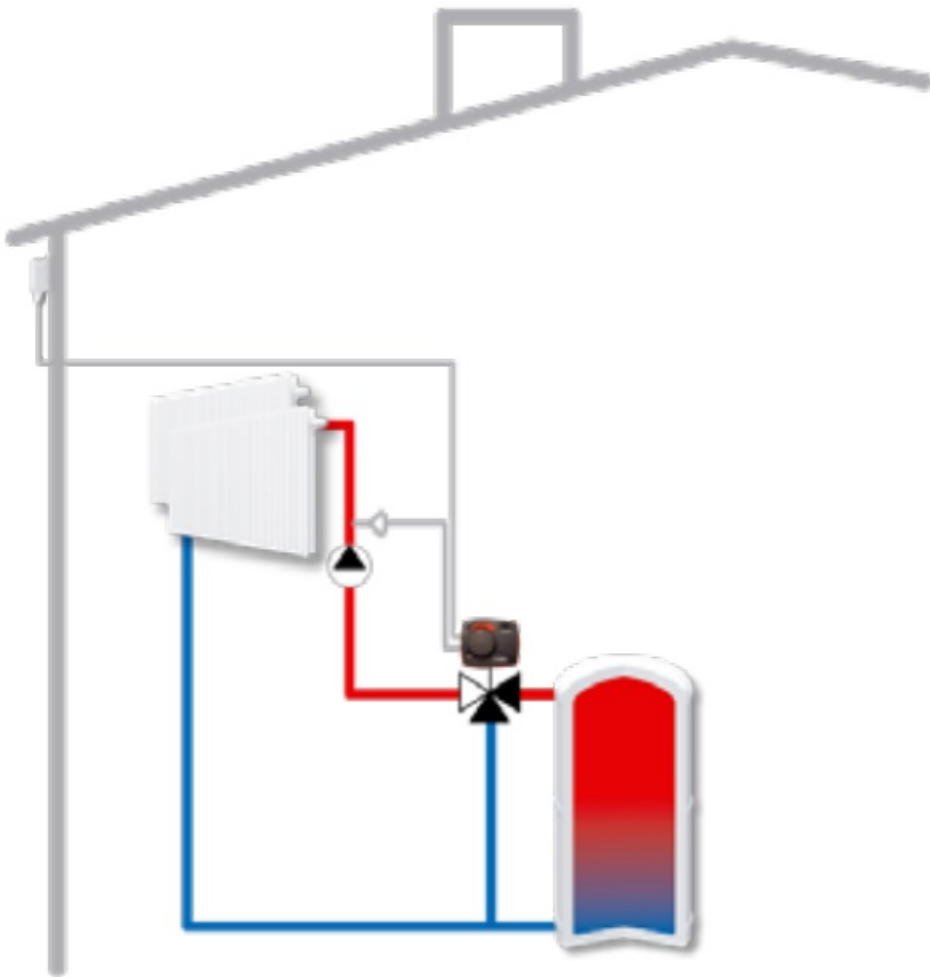


Installation dimensions for Controller Series CRC110 with ESBE VRG100, VRG200, VRG300, VRH100 and VRB100 mixing valves

**SERIES CRC110**

Art. No.	Reference	Voltage [V AC]	Torque [Nm]	Note
12820100	CRC111	230	6	

### INSTALLATION EXAMPLES



ESBE SERIES CRC110 • EN • F

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### Documents / Resources

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