

CONTROLLERS

# CONTROLLER SERIES CRB100

ESBE series CRB100 is an indoor sensor based controller with integrated actuator, highly user friendly interface and quick and simple installation. Settings are done via a room display unit with integrated indoor sensor, which can either be connected to the actuator unit through cable (CRB110) or through wireless radio connection (CRB120).

### OPERATION

The series CRB100 controller is designed to provide a high level of comfort and at the same time provide energy savings for the house owner.

The controller consists of two main parts, the actuator unit and the room display unit.

- Room display unit in modern design, which contains the indoor temperature sensor and in which all settings, such as day to day climate adjustments as well as the internal day and weekly program, are set.

- The actuator unit can be connected to the room display unit either by wireless radio connection (CRB120) for easy installation or by cable (CRB110).

With the inbuilt timer, with day and week program, there are possibilities to have day and night settings with an alternative temperature for even further energy savings. The alternative temperature can also be activated by an external equipment. With this equipment the target temperature can be changed easily from a cell phone.

### MOUNTING

To provide the best comfort, the room display unit should be placed in a central open area in the house, out of direct sunlight.

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

Thanks to the special interface between the controller series CRB100 and the ESBE valve series VRG, VRB and VRH, the unit as a whole has a unique stability and precision when regulating.

### OPTIONAL EQUIPMENT

Art. No. 17053100 \_\_\_\_\_ CRA911 Flow pipe sensor, 5m cable



CRB111  
Cable



CRB122  
Wireless, timer

### 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

### 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, Maximix

### TECHNICAL DATA

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

Temperature range:  
Flow pipe sensor \_\_\_\_\_ +5 to +95°C  
Room sensor \_\_\_\_\_ +5 to +30°C

Enclosure rating - Actuator unit: \_\_\_\_\_ IP41  
- Room display unit: \_\_\_\_\_ IP20

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

Power supply - Actuator unit: \_\_\_\_\_ 230 ± 10% VAC, 50 Hz  
- Room display unit - wireless: \_\_\_\_\_ 2x 1,5 V LR6/AA

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

Battery endurance, wireless room display unit: \_\_\_\_\_ 1 year

Rating auxiliary switch: \_\_\_\_\_ 6(3) A 250 V AC

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

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

ErP Temperature controls class: \_\_\_\_\_ IV

Energy efficiency contribution: \_\_\_\_\_ 2%

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

Room display unit cable: \_\_\_\_\_ 20m

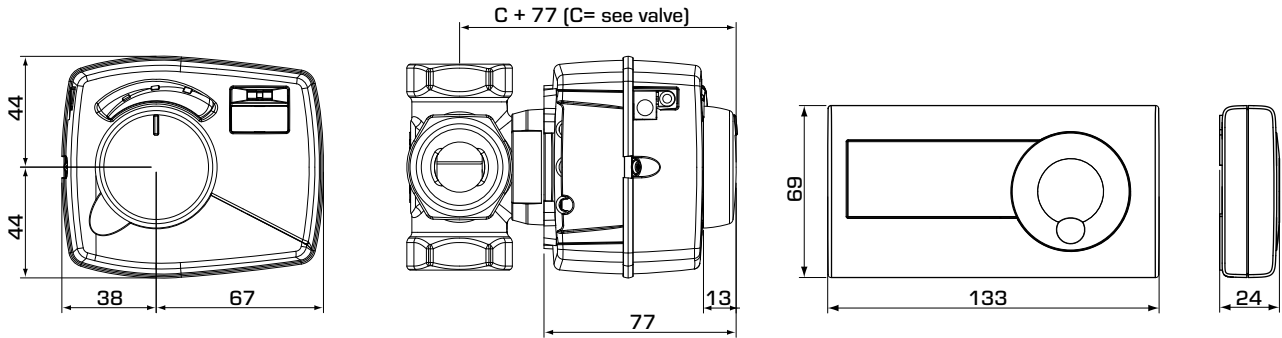
Radio frequency CRB120: \_\_\_\_\_ 868MHz  
\_\_\_\_\_ ITU region 1 approved acc. to EN 300220-2

CE LVD 2014/35/EU  
EMC 2014/30/EU  
RoHS3 2015/863/EU  
RED 2014/53/EU



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Installation dimensions for Controller Series CRB100 with ESBE VRG100, VRG200, VRG300, VRH100 and VRB100 mixing valves

Installation dimensions for Room display units

## SERIES CRB100

Art. No.	Reference	Voltage [V AC]	Torque [Nm]	Room display unit	Note	Replaces
12660100	CRB111	230	6	Cable	Without internal timer	
12662200	CRB122			Wireless		12662100

### WIRING

Please see the Installation Instruction

### INSTALLATION EXAMPLE

