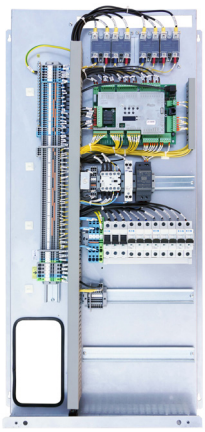
DATA SHEET

RegulusBOX-E Indoor Unit for Three-phase Heat Pumps



Main Features	
Application	RegulusBOX-E is an electric indoor unit designed for easy electrical connection of three-phase CTC or RTC heat pumps and control of the heating system of the house. It does not contain hydraulic elements - therefore it shall be ordered together with a pump station intended for heat pumps (e.g. CSE TC W-PWM – for codes see the Catalogue).
Description	**Basic Elements of RegulusBOX Unit** ■ IR RegulusBOX Controller with remote access from a computer or mobile app, ■ control unit with display (equipped with temperature and humidity sensors) that can be removed and used as a room unit with two-wire connection; in that case, a display blind plug (code 18248) shall be bought as well, ■ LAN connector accessible from the underside of the unit, ■ terminal block for connecting the heat pump and other accessories, ■ circuit breaker for heat pump, circuit breaker for electric heating elements for heating system with total power of 9 kW, circuit breaker for el. heating element for DHW with power of 3 kW, ■ free DIN rail for extension modules – see the Catalogue for overview of expansion modules, ■ SSR relay (variants marked PV). **Enclosed Accessories** ■ outdoor temperature sensor – 1x, ■ Pt1000 temperature sensor for sheath – 2x, ■ heat pump communication cable, 15 m (only variants for the RTC heat pump – the CTC heat pump has a communication cable connected from the factory).
Interface	**Integrated web server** for remote management, accessible via LAN or over the Internet via Regulusroute service; website is optimized for mobile phones; **integrated control unit** with OLED display and 6 capacitive buttons, with temperature and humidity sensor; the unit can be moved indoors and used as a room control unit.
Installation	The RegulusBOX-E unit is designed to be hung on the wall. Install indoors only.

RegulusBOX-E variants				
	RTC 3/3PV	**CTC 3/3PV**	**RTC 3/3**	**CTC 3/3**
Code	**22069**	**22067**	**22064**	**22062**
230 V outputs	12	12	12	12
0–10 V outputs	0	0	4	4
PWM outputs	4	4	4	4
SSR output	4 (3+1 with security)	4 (3+1 with security)	0	0
Sensor or switch inputs	15	15	15	15
iPWM inputs	2	2	2	2
HDO input	1	1	1	1
Positions for optional modules	29	29	29	29

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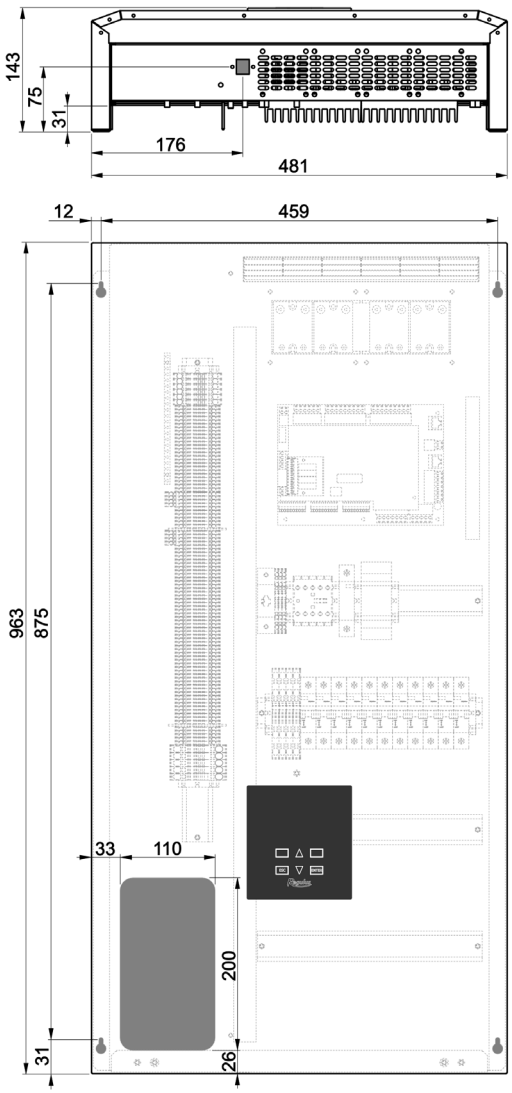
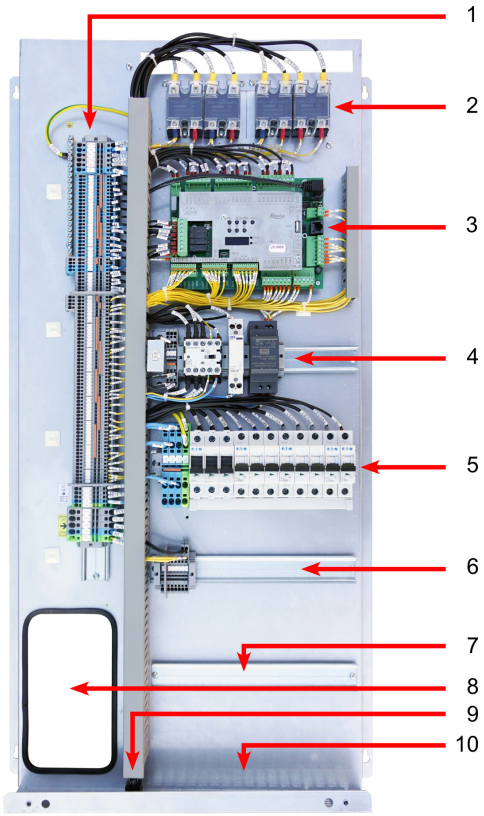
Technical Data	
Total weight (PV variant – with SSR relay)	19.7 kg
Total weight (variant without SSR relay)	18.9 kg
Overall dimensions (W x H x D)	481 x 963 x 143 mm
Power supply	3/N/PE ~ 400 / 230 V 50 Hz
Max. cross section of power cable	6 mm² (stranded) / 10 mm² (solid)
Nominal power input	15 W (without heat pump connected and SSR relay)
IP rating	IP20
Circuit breaker for heat pump	B16 A 3p
Circuit breaker for controller	B6 A 1p
Circuit breaker for heating elements for heating system	B16 A 3p
Circuit breaker for heating element for DHW	B16 A 1p

Connectivity, Memory Card	
Ethernet 100 Mbit/s	2 x
USB for connecting an optional WiFi USB adapter	1 x
RS485 for connecting a heat pump	1 x
CIB	1 x
TCL2	1 x
Micro SD memory card	1 x

Dimensions





1 – main connection terminal block
2 – SSR relay (for variants marked PV)
3 – IR RegulusBOX controller
4 – 24 V power supply and contactors
5 – main switch and circuit breakers
6 – auxiliary terminal block for extension modules
7 – DIN rail for extension modules
8 – cable entry
9 – LAN connector
10 – cooling air inlet

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