

RegulusBOX 12 RTC 3/3 Indoor Unit for Three-phase RTC Heat Pumps

| Main Features | | |
|---|---|--|
| Application | RegulusBOX is wall-hung indoor unit designed for easy connecting three-phase RTC heat pumps to a house heating system. A thermal store for continuous DHW heating HSK 220 DHW, a hot water storage tank RGC 170 or a stainless-steel hot water storage tank NBC 170 HP can be easily installed below RegulusBOX. | |
| 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 electric boiler with an output of 12 kW switched in steps of 2 kW (maximum output can be limited) Wilo Para 25/8 iPWM1 circulation pump three-way motorized valve for switching the outputs of the heating system and DHW heating pressure sensor for heating system pressure monitoring automatic air vent valve terminal block for connecting the heat pump and other accessories circuit breaker for heat pump circuit breaker for the controller Enclosed Accessories mounting kit for easy installation on the wall rail 1" Fu/F inlet ball valve with safety group to connect an expansion vessel with safety and drain valves 1" Fu/F ball valve for output to the heating system 1" Fu/F ball valve for output to the HW storage tank control lever for ball valves ball valve with filter and magnet for installation in the heat pump return pipe outdoor temperature sensor temperature sensor for hot water storage tank mounting template | |
| 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. | |
| Working fluid | Water, antifreeze heat-transfer fluid for heating systems. | |
| Installation | RegulusBOX is designed for installation with RTC series heat pumps. Install indoors only. | |
| Connection Dimensions*) | to heat pump – G 1" F to heating system – G 1" F to heat exchanger in HW tank TV – G 1" M to expansion vessel – G 3/4" M | |
| Code | 19816 – Czech menu / 20025 – English menu | |
| *) With ball valves from accessory instal | | |

*) With ball valves from accessory installed.



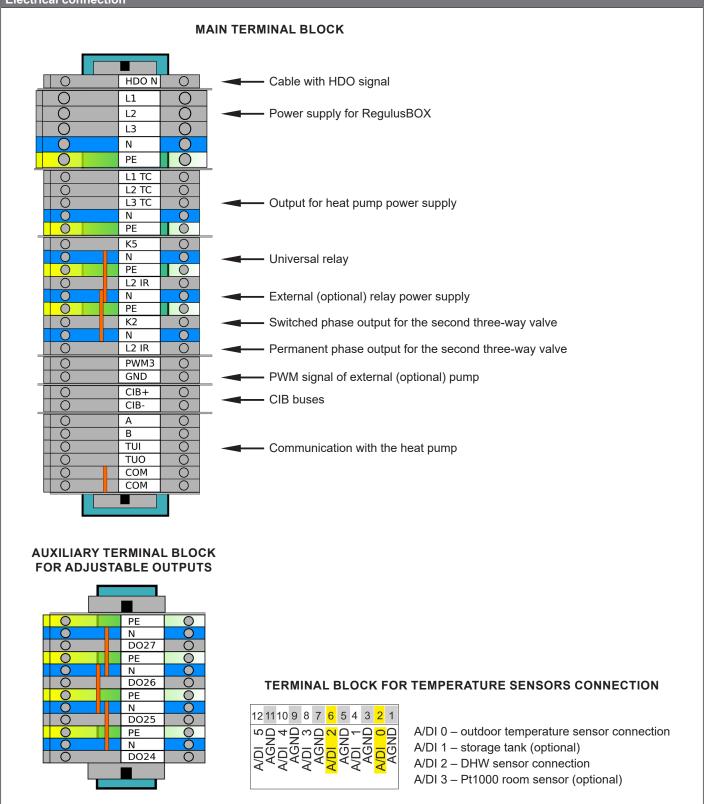
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| Technical Data | | | |
|---|---|--|--|
| Fluid working temperature | 18–90 °C | | |
| Max. working pressure | 3 bar | | |
| Min. working pressure | 0.5 bar | | |
| Ambient temperature | 5–40 °C | | |
| Max. relative humidity | 80 %, non condensing | | |
| Safety valve set pressure | 3 bar | | |
| Safety valve seat cross section | 132 mm ² | | |
| Safety valve discharge coefficient | 0.3 | | |
| 3-way valve actuator run time | 15 s | | |
| Fluid volume | 10 | | |
| Total weight without heating water | 34 kg | | |
| Total weight with heating water | 44 kg | | |
| Overall dimensions (W x H x D) | 560 x 905 x 235 mm | | |
| | | | |
| Electric Data | 3/N/PE ~ 400 / 230 V 50 Hz | | |
| Power supply Max. cross section of power cable | 3/N/PE ~ 400 / 230 V 50 HZ 4 mm ² (stranded) / 6 mm ² (solid) | | |
| · · · · · | 12.2 kW (without heat pump connected) | | |
| Nominal power input Heating elements | 12.2 kW (without heat pump connected) $2 \times 6 \text{ kW}$ ($3 \times 2 \text{ kW}$ each – 230 V) | | |
| | | | |
| IP rating | IP20 | | |
| Circuit breaker for heat pump | B16A 3p | | |
| Circuit breaker for controller, zone valve actuator, pump | В6А 1р | | |
| Connectivity, Memory Card | | | |
| Ethernet 100 Mbit/s | 2x | | |
| USB for connecting an optional WiFi USB adapter | 1x | | |
| RS485 for connecting a heat pump | 1x | | |
| CIB | 1x | | |
| TCL2 | 1x | | |
| Micro SD memory card | 1x | | |
| Inputs and outputs for optional accessories | | | |
| 5 x configurable relay output | 230 V/5A (K5, DO24, DO25, DO26, DO27) | | |
| 3x PWM outputs | 24 V DC (AO0, AO1, PWM3) | | |
| 4x analog outputs | 0–10 V (AO2-AO5) | | |
| 1x output for three-way valve control | 230 V AC (K2, L2 IR) | | |
| 1x input for Ripple control | 230–400 V AC (HDO) | | |
| 1x input for iPWM return signal from circulation pumps | A/DI16 | | |
| 15x inputs for Pt1000 temperature sensors*) | measuring range –90 to 400 °C (A/DI0-A/DI13 a A/DI20) | | |
| * Inputs can also be used as binary potential-free inputs to connect e.g. an instantaneous circulation switch or a boost switch of the HRV unit etc. | | | |
| Included in Supply | Internal Hydraulic Connection | | |
| 1 1 2 3 4 5 | 1 - outlet to heating system 2 - outlet to hot water tank 3 - heat pump connection 4 - expansion vessel connection | | |
| 9 - Pt 1000 temperature sensor for not water tank 9 - Pt 1000 outdoor temperature sensor 10 - heat pump communication cable, 15 m | 123 | | |



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