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DATA SHEET

RegulusHBOX 212 CTC 3/3 Indoor Unit with DHW Heating



| Main Factures | |
|---------------|---|
| Main Features | |
| Application | Space heating and continuous DHW heating by a CTC inverter heat pump (600 series) with hydraulic flow balancing in a HSK combination thermal store. The unit is intended for heating systems with one or multiple heating circuits fitted with own circulation pump(s). A solar thermal system or another heat source can be connected to the unit using optional accessories. |
| Description | Basic elements of RegulusHBOX indoor unit ■ IR RegulusHBOX Controller with remote access from a computer or a mobile app. ■ Control unit with graphical display, English menu, that can be used as a room unit (two-wire connection). ■ HSK combination thermal store of 210 l total volume, divided by a tight separating partition in the ratio 49 l (heating), 140 l (DHW heating), 21 l (stainless-steel heat exchanger). ■ DHW heating in a stainless-steel heat exchanger, 6 sqm. ■ 12 kW heating elements, switched in 2 kW steps (max. output can be limited in the controller menu). ■ Three-way zone ball valve for heat pump switching between space and DHW heating. ■ Waste pipe from safety valves incl. siphon. ■ Electric wiring incl. terminal block for easy connection of a heat pump and other accessories incl. basic element protection. ■ Heating water temperature and pressure sensor, DHW temperature sensor. Enclosed accessories ■ Heating system safety group incl. air vent valve, 3 bar safety valve, pressure gauge and T-piece for topping up heating water / connecting a supplementary expansion vessel for case when the integrated 12 l expansion vessel is not sufficient. ■ Safety kit for a cold water pipe incl. check valve, 8 bar safety valve, pressure gauge, T-piece for connecting an expansion vessel/recirculation and T-piece for topping up heating water. |
| | Outdoor temperature sensor. Pump station for heat pump circuit with Wilo Para 25/8 iPWM1 circulation pump. Ball valve w. filter & magnet. 12 I expansion vessel for heating system. 2 I DHW expansion vessel. |
| Interface | Integrated web server for remote management, accessible either via LAN, or remotely via Internet over Regulusroute service; website is optimized for mobile devices. Integrated control unit with display and 6 keys, with a temperature&humidity sensor; the unit can be moved to interior and used as a room control unit. |
| Working fluid | Water, antifreeze fluid for heat pumps and heating systems (heat pump circuit), water (DHW heat exchanger). |
| Installation | The unit is designed for installation with a CTC inverter heat pump (600 series). When installed with one heating circuit, the pump station installs directly on RegulusHBOX. For installations with multiple heating circuits, a manifold shall be used. When used with a CTC EcoPart ground-source heat pump, it is necessary to remove the circulation pump from the heat pump and replace it by a pump replacement piece (code 17391). RegulusHBOX is designed for indoor installation only. |
| Code | 20026 |
| | |

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| Accessories (not included in supply) | |
|--|-----------------------------|
| CSE2 F MIX pump station for a mixed heating circuit | for codes see the Catalogue |
| CSE2 F pump station for an unmixed heating circuit | for codes see the Catalogue |
| CSE TV pump station for DHW recirculation, with a connection kit for RegulusHBOX indoor unit | code 20276 |
| Expansion vessel for larger heating systems where the 12 I expansion vessel integrated in RegulusHBOX is not sufficient | for codes see the Catalogue |
| Blind plug and frame for RegulusHBOX, for installations where the control unit is used as a room unit | code 18248 |
| Solar module for connection of a solar thermal system (kit with a plate heat exchanger, circulation pump, and connecting piping) | code 20031 |

| Technical Data | |
|--|----------------------|
| Total tank volume | 210 |
| Total fluid volume in tank | 189 l |
| Fluid volume above the separating metal sheet | 140 l |
| Fluid volume below the separating metal sheet | 49 |
| Fluid volume in DHW heat exchanger | 21 |
| DHW heat exchanger surface area | 6 m ² |
| Fluid working temperature | 5–90 °C |
| Max. working pressure – heating system | 3 bar |
| Min. working pressure – heating system | 0.5 bar |
| Max. working pressure – DHW | 8 bar |
| Ambient temperature | 5–40 °C |
| Max. relative humidity | 80 %, non condensing |
| Safety valve set pressure – heating system | 3 bar |
| Safety valve set pressure – DHW | 8 bar |
| Safety valves seat cross section | 132 mm ² |
| Safety valve discharge coefficient | 0.3 |
| 3-way valve actuator run time | 15 s |
| Heat loss | 160 W |
| Total weight without water | 148 kg |
| Total weight with water | 360 kg |
| Overall dimensions (W x H x D) | 595 x 1725 x 650 mm |
| Tipping height (without pump stations and safety groups connected) | 1790 mm |

| Electric Data | |
|---|--|
| Power supply | 3/N/PE ~ 400 / 230 V 50 Hz |
| Max. cross section of power cable | 4 mm ² (stranded) / 6 mm ² (solid) |
| Nominal power input | 12.2 kW (without a heat pump connected) |
| Heating elements | 2 x 6 kW (3 x 2 kW – each 230 V) |
| IP rating | IP20 |
| Circuit breaker for heat pump | B16A 3p |
| Circuit breaker for measurement and control | B6A 1p |

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| 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 & Outputs for Optional Accessories | | | | |
|---|---|--|--|--|
| 6x relay output | 230 V/5A (K4, K5, DO24–DO27) | | | |
| 3x PWM output | 24 V DC (AO0, AO1, PWM3) | | | |
| 4x analog output | 0-10 V (AO2-AO5) | | | |
| 1x input for Ripple control | 230-400 V AC (HDO) | | | |
| 1x input for reverse iPWM signal from circulation pumps | A/DI16 | | | |
| 13x input for Pt1000 temperature sensors*) | measurement range -90 to 400 °C (A/DI0-A/DI13 a A/DI20) | | | |

^{*)} The inputs can be also used as binary potential-free inputs for connecting e.g. immediate recirculation switch or a HRV boost switch etc.

| Volume of supplied DHW (he | eated from 10 °C to 40 |) °C) | | | | | |
|----------------------------|------------------------|--------|-----|-----|-------------------|-----|--|
| Heated volume | | entire | | | entire | | |
| Backup heating | | 10 kW | | | no backup heating | | |
| Flow rate [l/min] | 8 | 12 | 20 | 8 | 12 | 20 | |
| Temperature in tank | | 60 °C | | | 60 °C | | |
| Hot water volume [I] | 362 | 250 | 185 | 170 | 163 | 110 | |
| Temperature in tank | | 50 °C | | | 50 °C | | |
| Hot water volume [I] | 156 | 128 | 87 | 114 | 82 | 64 | |

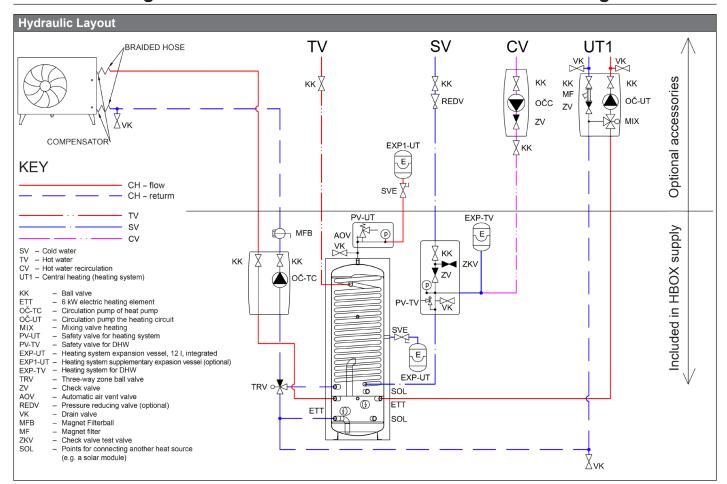
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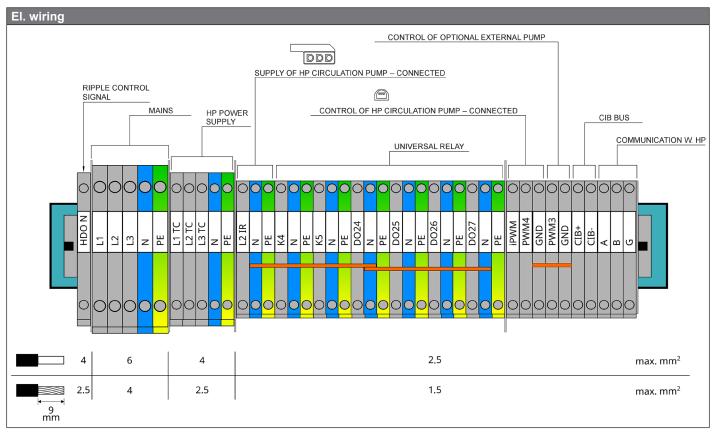
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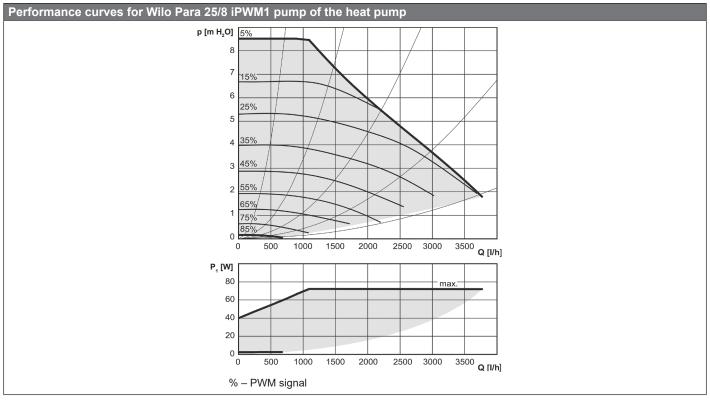


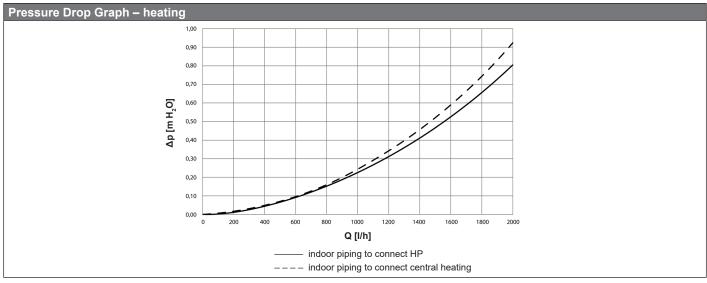


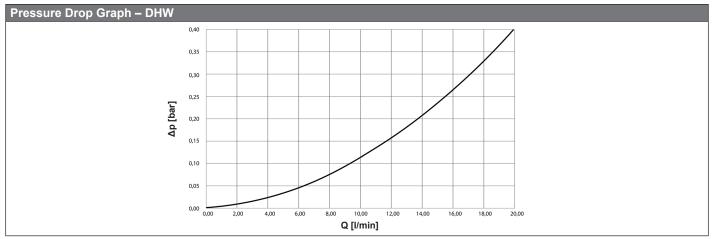
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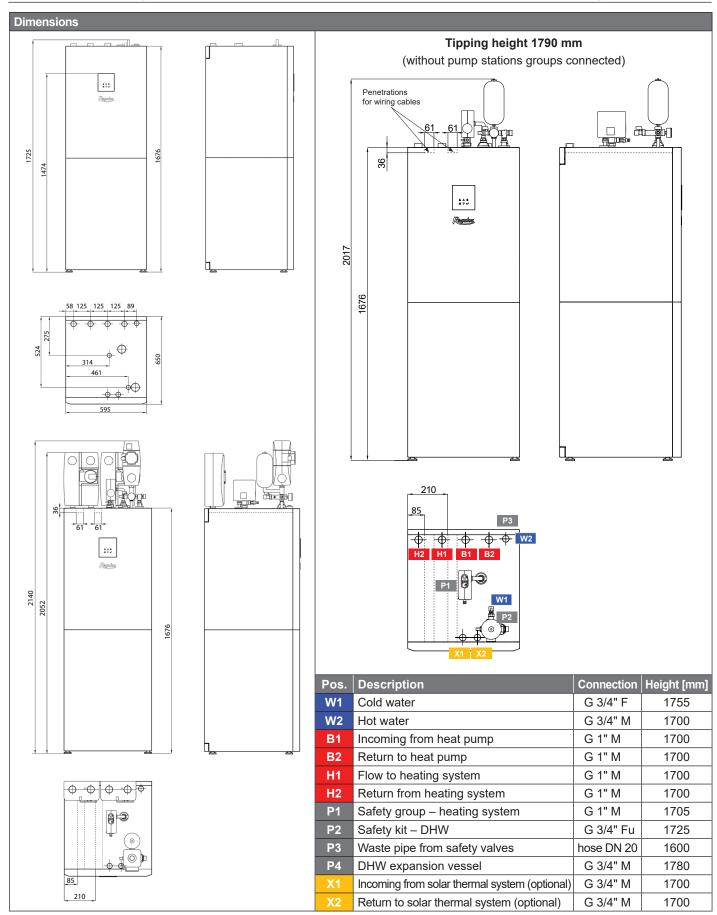


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