

Regulus

**HEAT PUMPS
SPECIAL OFFER**

SPRING 2023

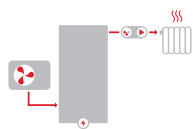


**Seasonal Sets
for heat pumps
for family homes**



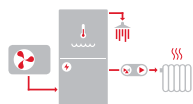
CONTENTS

SETS WITH AN ON/OFF HEAT PUMP



for heating, with thermal store,
no hot water tank
EA PS Set

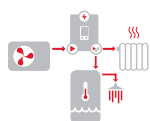
page 4



for heating, with combination thermal store,
hot water heating
EA HSK Set

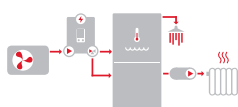
page 5

SETS FOR HEAT PUMPS



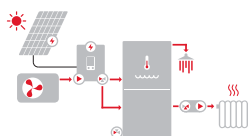
for heating (cooling),
with hot water tank
RGC 170 BOX Set
NBC 170 BOX Set

page 6



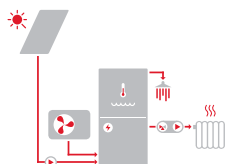
for heating (cooling),
with combination thermal store w. DHW heating
HSK 350 BOX Set

page 7



for heating (cooling), with combination thermal store
w. DHW heating, for efficient cooperation w. PV system
HSK 600 BOX Set

page 8



for heating (cooling), with combination thermal store
w. DHW heating, w. solar thermal system
SOL HSK 390 Set

page 9

RegulusBOX INDOOR UNIT

page 10

ACCESSORIES

page 11

SYSTEMS FOR HEATING, NO HOT WATER TANK

EA PS Seasonal Set

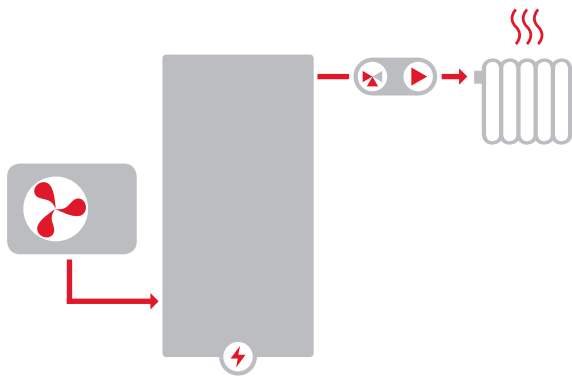
Air-to-water on/off heat pump for space heating



THE SET INCLUDES:

- EcoAir heat pump incl. pump station
- PS 200 N+ thermal store w. insulation
- IR 14 smart controller incl. room sensor
- Electric heating elements
- Expansion vessel for heating incl. service valve
- Insulated pump station with mixing valve for heating system

A set for heating by a heat pump without DHW heating. The set is intended primarily for replacing solid fuel boilers where DHW heating remains unchanged. However, a suitable hot water storage tank can be added to the system at any time in the future. The smart controller ensures the operation of the heat pump, controls the heating of the building according to the outside temperature and the user's requirements and is able to optimize the heating system and the operation of the heat pump also with respect to other sources (stoves, fireplace inserts). Web access to the controller is an invaluable tool for more complex settings and troubleshooting.



SET	CODE
EA 408 PS	20085
EA 410 PS	20086
EA 415 PS	20087

SYSTEMS FOR SPACE AND DHW HEATING

EA HSK Seasonal Set

Air-to-water on/off heat pump for space and DHW heating



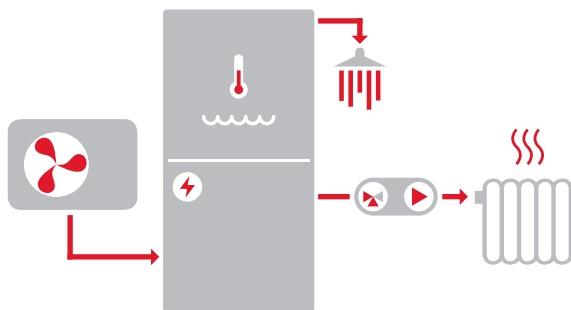
THE SET INCLUDES:

- EcoAir heat pump incl. pump station
- HSK 390 P thermal store with integrated stainless-steel DHW heat exchanger
- IR 14 smart controller incl. room sensor
- Electric heating elements
- Expansion vessel for heating incl. service valve
- Insulated pump station with mixing valve for heating system

The heat pump is connected to a combination thermal store that provides for both space and DHW heating.

The thermal store is divided by the metal plate into two thermally independent spaces. The lower one can be heated up to the temperature needed for heating only. The space above the separating plate is kept at the desired temperature for DHW. This solution is very efficient in systems with heat pumps as the temperature in the lower section may be tens of °C lower than in the upper section.

Space and DHW heating in the integrated hot water tank / heat exchanger is controlled by the smart controller that reacts to the outdoor temperature and to user requirements as well. The controller is equipped with a web server as standard, permitting easy adjustments from anywhere.



SET	CODE
EA 408 HSK	20088
EA 410 HSK	20090
EA 415 HSK	20091

SYSTEMS FOR SPACE HEATING (COOLING) AND DHW HEATING

RGC 170 BOX, NBC 170 BOX Seasonal Sets

The set is intended for inverter heat pumps. A heat pump is not included in the set.



THE SET INCLUDES:

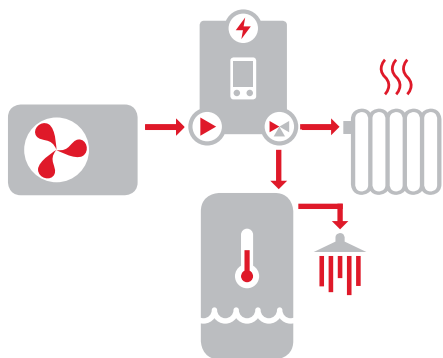
- RegulusBOX, incl. temperature sensors (inner room temperature sensor not included)
- Hot water storage tank, either enamelled RGC or stainless-steel NBC
- Safety kit
- 25l expansion vessel for heating systems incl. equipped bracket
- 8l expansion vessel for drinking water incl. bracket
- Electronic anode rod (only in sets with RGC hot water tank)

A heat pump is connected directly to a heating system (no thermal store) and to a hot water storage tank.

There are two types of hot water tanks to choose from - an enamelled RGC 170 of 173l volume, or a stainless-steel NBC 170 HP of 171l volume. Both tanks feature upwards outlets, and therefore are suitable for installation under the RegulusBOX indoor unit.

When the heat pump with a hot water tank are connected, the heat pump provides the complete heating (cooling) and hot water needs of the building. It is a very compact solution with minimal space requirements and, above all, highly comfortable hot water heating. The sufficient hot water volume contributes to the fact that the hot water tank does not need to be heated to high temperatures. Under normal conditions, the hot water will only be heated by a heat pump, moreover with a high COP - thus more economically.

Heating, cooling and DHW heating are controlled by the smart controller that reacts to the outdoor temperature and to user requirements as well. The controller is equipped with a web server as standard, permitting easy adjustments from anywhere.



SET	CODE
RGC 170 BOX CTC	20100
NBC 170 BOX CTC	20099
RGC 170 BOX RTC	20098
NBC 170 BOX RTC	20097

SYSTEMS FOR SPACE HEATING (COOLING) AND DHW HEATING

HSK 350 BOX Seasonal Set

The set is intended for inverter or ON/OFF heat pumps. A heat pump is not included in the set.



THE SET INCLUDES:

- RegulusBOX, incl. temperature sensors (inner room temperature sensor not included)
- HSK 350 K P-B thermal store with integrated stainless-steel DHW heat exchanger, incl. insulation
- Thermal store accessory set
- Pump station for heating system
- 60l expansion vessel for heating systems incl. service valve

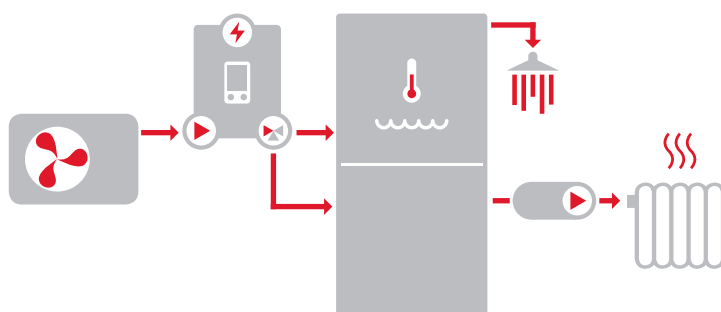
HSK 350 thermal store is specially made for easy installation together with RegulusBOX indoor unit. The thermal store is divided by the tight metal plate into two thermally independent spaces, not permitting spontaneous mixing. Thanks to the tightness of the separating plate, one three-way valve is sufficient for switching between space and DHW heating that is already included in the RegulusBOX indoor unit. The indoor unit contains also electric heating elements with their control in steps of 2 kW, up to 12 kW output. It is not possible to install any further heating elements into the HSK 350 thermal store.

For ON/OFF heat pumps, the lower section acts as a buffer volume for continuous operation of the heat pump. At the same time, it provides sufficient energy for defrosting all our models of air-to-water heat pumps incl. inverter types. The lower section also serves for hydraulic balancing of high heating water flow through the heat pump that could cause noise when significant portion of the shut-off elements in the heating system is closed. Thanks to the hydraulic balancing of the flows from the different circulation pumps, it will be very easy to add additional independent heating circuits in the future (residential extensions, pool heating, etc.).

The space above the separating plate is kept at a higher temperature for comfort DHW heating. The lower one can be heated up by the heat pump just to the temperature needed for heating according to the current outdoor temperature.

This solution is very efficient in systems with heat pumps as the temperature in the lower section may be tens of °C lower than in the upper section. Efficient operation of the heat pump is then reflected in its lower electricity consumption.

Space heating and DHW heating in a stainless-steel heat exchanger are controlled by IR RegulusBOX smart controller that reacts to the outdoor temperature and to user requirements as well, and with regard to indoor room temperature. The controller is equipped with a web server as standard, permitting easy control from the IR Client mobile app, or remote management and supervision necessary for an extended warranty for Regulus heat pumps.



SET	CODE
HSK 350 BOX CTC	20092
HSK 350 BOX RTC	20093

SYSTEMS FOR SPACE HEATING (COOLING) AND DHW HEATING, for efficient cooperation with PV systems

HSK 600 BOX Seasonal Set

The set is intended for inverter or ON/OFF heat pumps. A heat pump is not included in the set.

THE SET INCLUDES:

- RegulusBOX, incl. temperature sensors (inner room temperature sensor not included)
- HSK 600 P thermal store with integrated stainless-steel DHW heat exchanger, incl. insulation
- Thermal store accessory set
- 3-way zone valve for DHW heating
- Pump station with mixing, for heating system
- 80l expansion vessel for heating systems incl. service valve

HSK 600 P thermal store enables many various connections, incl. a combination with the indoor unit for heat pumps, RegulusBOX.

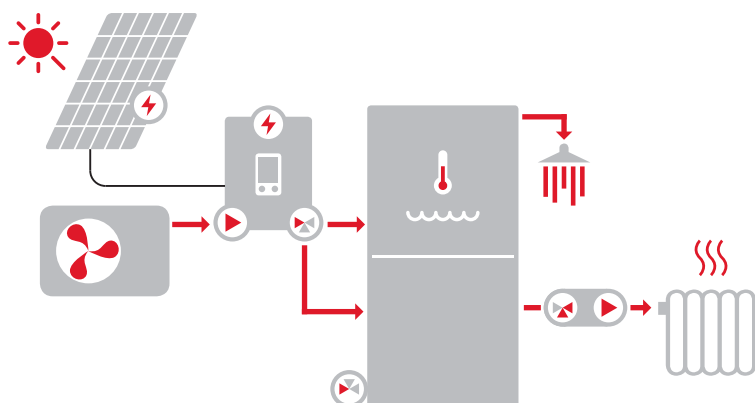
The indoor unit contains also electric heating elements with their control in steps of 2 kW, up to 12 kW output. Other heat sources can also be connected to the thermal store, like e.g. hot-water stoves or solid-fuel boilers, automatic boilers, or e.g. an electric heating element powered by a PV system can be installed inside.

The thermal store is divided by the metal plate into two thermally almost independent spaces, not permitting spontaneous mixing. The space above the separating plate is kept at a higher temperature for DHW heating. Switching between space heating and DHW heating is ensured by a 3-way valve that is already included in the RegulusBOX indoor unit, and an external 3-way valve that is included in this set. Thanks to the small volume of water being heated, continuous hot water heating in the stainless steel exchanger is very hygienic and cost-effective.

For ON/OFF heat pumps, the lower section acts as a buffer volume for continuous operation of the heat pump. At the same time, it provides sufficient energy for defrosting all our models of air-to-water heat pumps incl. inverter types. The lower section also serves for hydraulic balancing of high heating water flow through the heat pump that could cause noise when significant portion of the shut-off elements in the heating system is closed. Thanks to the hydraulic balancing of the flows from the different circulation pumps, it will be very easy to add additional independent heating circuits in the future (residential extensions, pool heating, etc.).

Space heating and DHW heating in a stainless-steel heat exchanger are controlled by IR RegulusBOX smart controller that reacts to the outdoor temperature and to user requirements as well, and with regard to indoor room temperature. The controller is equipped with a web server as standard, permitting easy control from the IR Client mobile app, or remote management and supervision necessary for an extended warranty for Regulus heat pumps.

The system can be supplemented with a kit for RegulusBOX which allows the heat pump and the PV system to be connected efficiently and to use the electricity from the PV system for the operation of the heat pump to the maximum extent possible.



SET	CODE
HSK 600 BOX CTC	20094
HSK 600 BOX RTC	20096

SYSTEMS FOR HEATING (COOLING) AND DHW HEATING, WITH SOLAR THERMAL SYSTEM

SOL HSK 390 Seasonal Set

The Set is intended for inverter- or ON/OFF heat pumps.
No heat pump is included in supply.



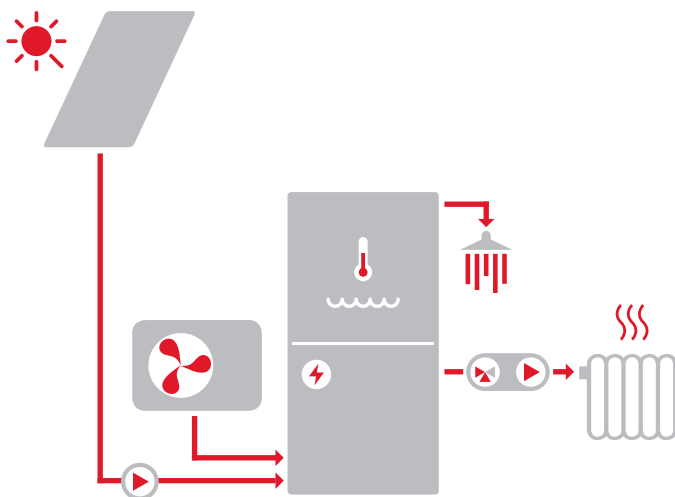
THE SET INCLUDES:

- KPG1 solar thermal collectors, 3 pcs
- HSK 390 PR combination thermal store w. integrated stainless-steel DHW heat exchanger and solar heat exchanger
- Electric heating element
- CSE SOL W P pump station
- IR 14 smart controller incl. room sensor
- 25l solar expansion vessel, 60l expansion vessel for heating, incl. bracket&connections
- Solarten, 35l (solar antifreeze fluid)
- Anti-scald valve
- Insulated pump station for heat pump
- Insulated pump station w. mixing valve for heating system

The solar thermal system is connected to a combination thermal store that provides both heating water for space heating and domestic hot water. The division of the tank into two spaces is particularly suitable for systems with heat pumps, as the temperature in the lower part can be even tens of degrees C lower than in the upper one.

Space and hot water heating are controlled by a smart controller that responds to both outdoor temperature and user requirements. The controller is equipped with a web server as standard, which allows full setting via a connected computer or remotely from anywhere over the Internet.

The system is ready to be connected to heat pumps (RTC or CTC series). The set includes also an electric heating element as an auxiliary heat source. Other heat sources can be also connected to the tank.



SET	CODE
SOL HSK 390 RTC	20102
SOL HSK 390 CTC	20101

RegulusBOX INDOOR UNIT

Indoor hydraulic unit for a heat pump.

- Intended primarily for connecting inverter heat pumps directly into a heating system.
- Connection to a hot water tank is possible, 3-way valve inside.
- Electric boiler 2-12 kW, pressure sensor, circulation pump.
- Smart controller with internet connectivity and a control display that can be moved to the living area of the house where it can also act as a room temperature and humidity sensor.
- With RTC heat pumps it enables cooling into the floor, walls or ceiling.

RegulusBOX CTC is designed for installation with CTC EcoAir heat pumps and CTC EcoPart heat pump models 406 to 414 and models 612M, 616M. With inverter heat pumps it can be connected directly to a heating system; with ON/OFF models or for multiple heating circuits it shall be installed with a (combination) thermal store and with a pump station for each heating circuit.

RegulusBOX RTC is available in two variants, different for single-phase and three-phase RTC heat pumps.

Code: 18928 - RegulusBOX CTC 3/3 for EcoAir and EcoPart heat pumps

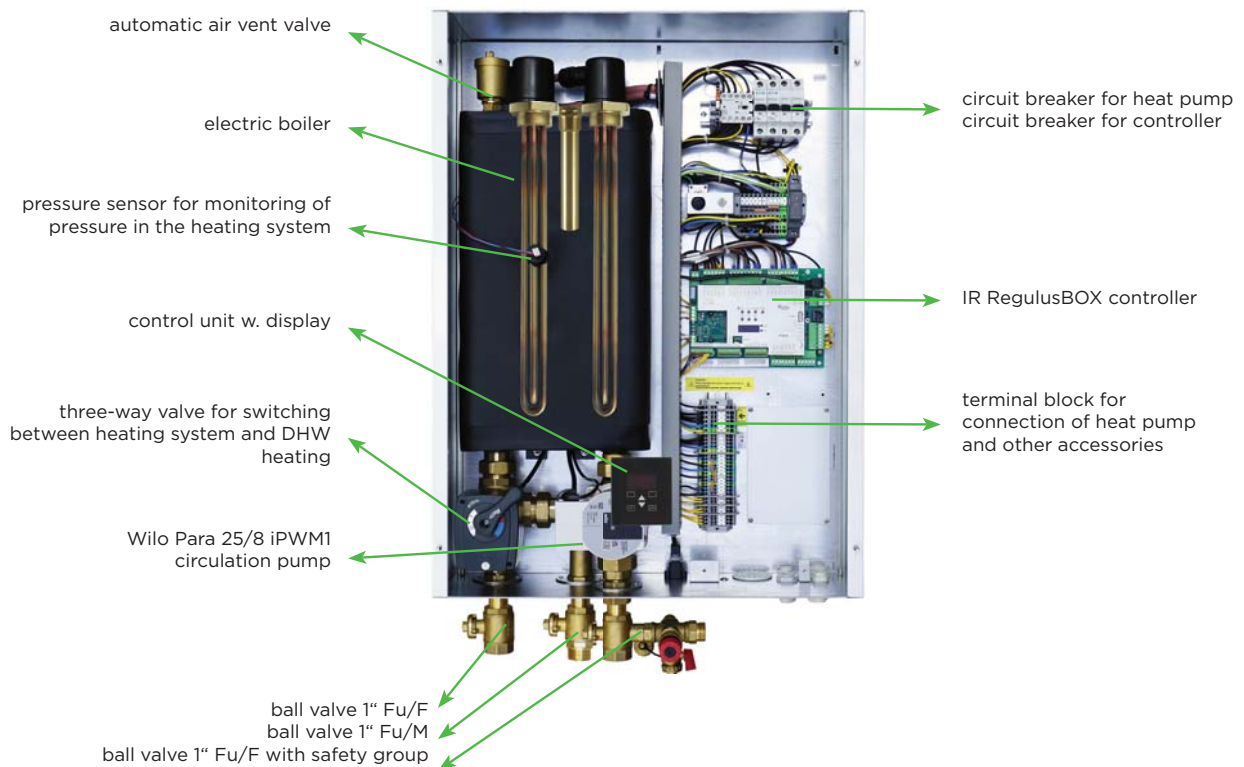
Code: 18930 - RegulusBOX RTC 3/1S for RTC 6i and 13e heat pumps

Code: 20025 - RegulusBOX RTC 3/3S for RTC 20e heat pumps












TECHNICAL DATA


	RegulusBOX		
Dimensions	Width	[mm]	560
	Height	[mm]	905
	Depth	[mm]	235
Weight		[kg]	34
Heating water volume		[l]	10
Output of electric heating elements		[kW]	12



ACCESSORIES

		CODE	
	Room unit	18540	
	Room temperature sensor	16167	
	Room temperature and humidity sensor - wireless, WiFi	18474	
	Heating Cable for EcoAir	3.5 m	16168
		5 m	18104
	Heating Cable for RTC	5 m	18491
	Wall support bracket for heat pump		17458
			18406
		Expansion vessel for drinking water - 8l for DUO, HSK thermal stores	13755
		Bracket with 3/4" connection valve	7766
	Electronic anode rod for DUO thermal store / NBC hot water tank	13793	
	2 kW auxiliary electric heating element, w. wall plug	15167	
	Pump station for hot water recirculation	15181	
	Three-way zone valve for sets with DUO, HSK thermal stores	11285	
	Union for connecting a zone valve <i>(for controlled DHW heating, 2 valves are needed)</i>	12699	
	Compensator for increased protection of heat exchanger against freezing, DN25, 1" Fu/M, incl. gaskets	1" Fu/M	16757
5/4" Fu/M		19754	
	Braided hose, 2x 1" F	300 mm	18621
		500 mm	15493
		700 mm	15494
		1000 mm	15495
	Braided hose, 1" F x 1" M	300 mm	18622
		500 mm	15496
		700 mm	15497
		1000 mm	15498
	Braided hose, 2x 5/4" F	300 mm	19752
		500 mm	16896
		700 mm	16897
		1000 mm	16898
	Braided hose, 5/4" F x 5/4" M	300 mm	19753
		500 mm	16899
		700 mm	16900
		1000 mm	16901

ACCESSORIES TO BOX

		CODE
	Display blanking kit including frame, for display installation into a room	18248
	Kit for expanding IR RegulusBOX with 4 outputs (relays)	19401

