SOREL® Mikroelektronik GMBH

crystal clear operator guidance

Weather compensated Heating - Controller

Heating - Controller HCC

General information

As a leading manufacturer of solar and heating controllers, we have enhanced our range of easy-to-use controllers.

Incorporating practicality and design, the series of Heat Circuit Controllers feature crystal clear operator guidance in a variety of languages.

Depending on the application and the required function, different types of controllers for heating, domestic hot water and cooling are available:

. 2-5 Pt1000 temperature probes
. optional: Room controller RC21 / RC22
. 3-6 relay outputs
. Options for enhancement

A clearly written, easy to read, lighted display with comprehensive full text and graphic mode is used without any confusing abbreviations.

The self-explanatory operation with 4 input keys allows the clear assignment of different functions. The instructions are entered with the keys as text or symbols.

The housing (H 163mm W 110mm D 51mm) offers different options of assembly such as wall assembly, integration to a pump group or mounting to a switch panel.

The electrical equipment is located in the upper part of the housing, it is plugged on and can be easily separated.

The terminal clamps are firmly integrated into the lower part of the housing. All cables can be provided with strain relieve in the clamp room.

According to the type of device, different options for enhancement are provided.

. Ethernet interface for remote administration and data logging
. 0...10V or 4...20mA interface for heat requirement
. PWM output for e.g. pump control

Further types of devices such as controllers for Solar thermal energy, heat pumps and solid fuel boilers are available.

The devices are available in custom-made type and in different languages. For OEM clients label, manual, software and hardware are customized accordingly.

Room controller

Room controller RC21

The RC 21 is a comfortable way to alter the heating from within your living space.

The switch is used to change the operating modes „Continous Day“, „Continous Night“ and „Automatic“.
A parallel translation of the heating curve can be performed by operating the dial.

The heating curve is also adjusted automatically by the integrated temperature sensor

Room controller RC 22

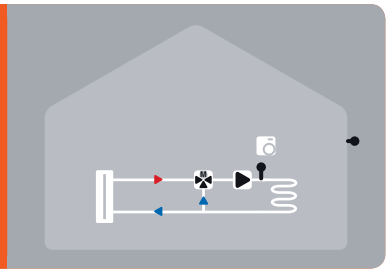
With the RC 22 heating and cooling can be adjusted from within the living space.

The Switch changes the operating modes „Cooling“, „Heating“ and „Off“.
The dial is used to parallel translate the heating- or cooling curve.

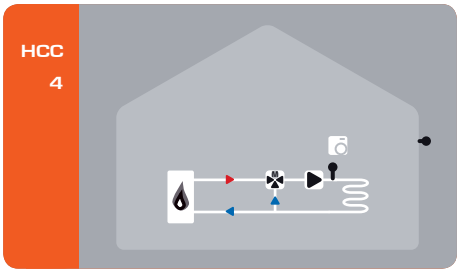
Integrated temperature and humidity sensors are also used to automatically adjust the curve.

Hydraulic variants

HCC 3 4



HCC 4



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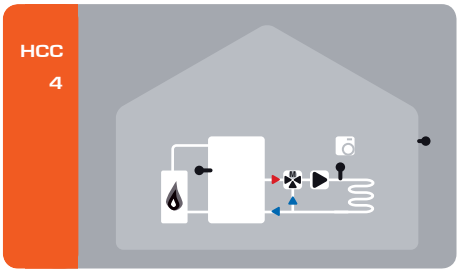

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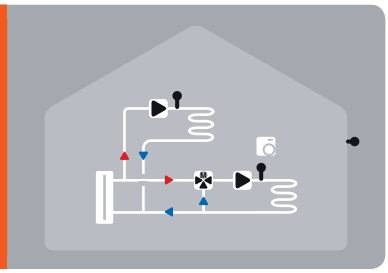

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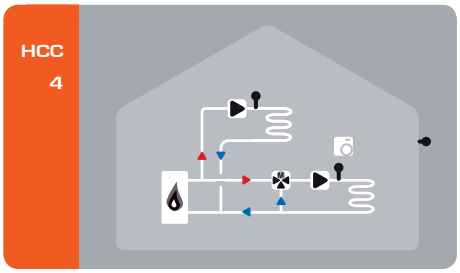

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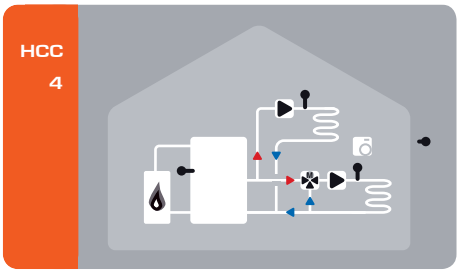
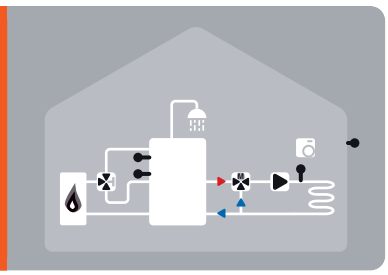
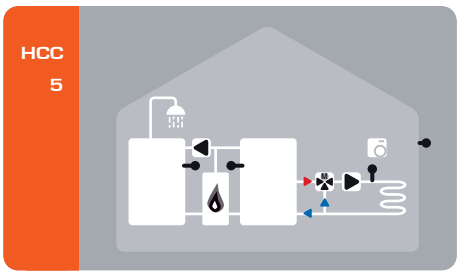


HCC 5



HCC 5



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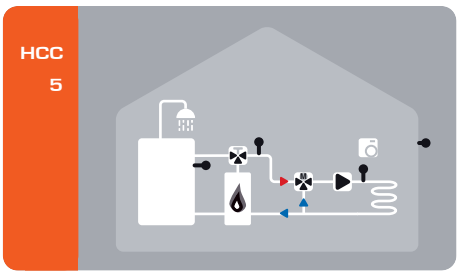
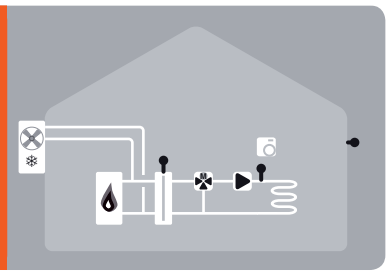


HCC 6



valve
pump
sensor
heat circuit
storage
domestic hot water tank
flow direction (cold/warm)
mixer
heat source
chiller
heat circuit manifold

Versions

Versions	HCC 3	HCC 4	HCC 5	HCC 6
. Probe input Pt1000	5	5	5	4
. compatible Room controller	RC 21	RC 21	RC 21	RC 22
. Relay outputs 230V AC on/off	3	4	4	4
. Relay outputs, floating	-	1	1	2
. Heat circuit with mixer	yes	yes	yes	yes
. 2nd heat circuit without mixer	-	yes	-	-
. Domestic hot water	-	-	yes	-
. Anti legionella function	-	-	yes	-
. Cooling and dehumidify	-	-	-	yes

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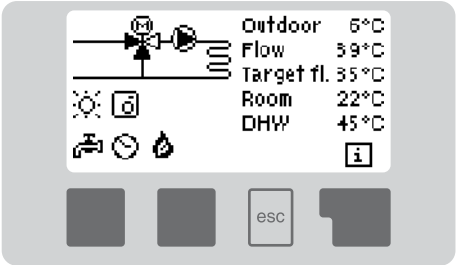
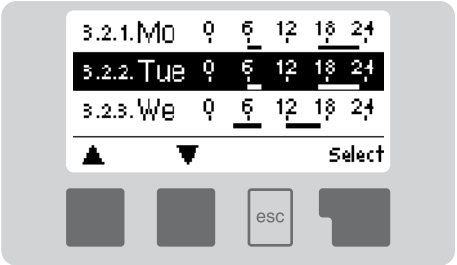
Operator guidance

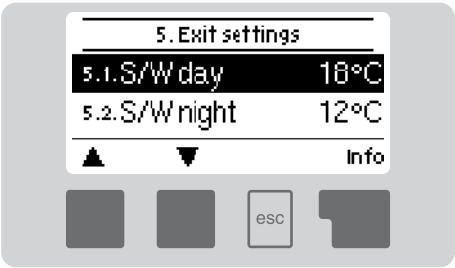
The setup wizard will rapidly guide you through the settings which need to be performed in a logically reasonable sequence. This way, any misadjustment is avoided and the parametrising is simplified.



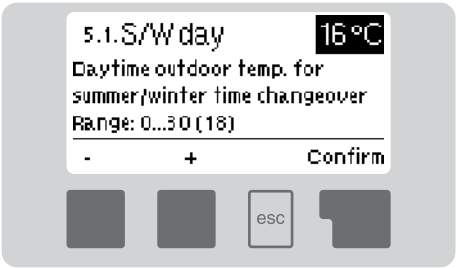
The display of the current measured values and the operating conditions is performed in a graphic mode with animations. Important functions are indicated as icons.



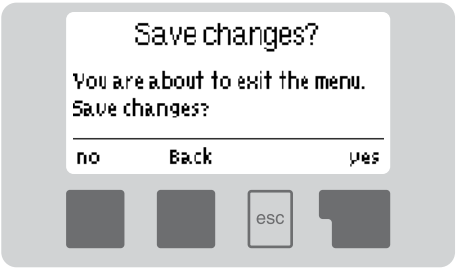
Three operating times can be set per weekday and can be transfered to other days as well.



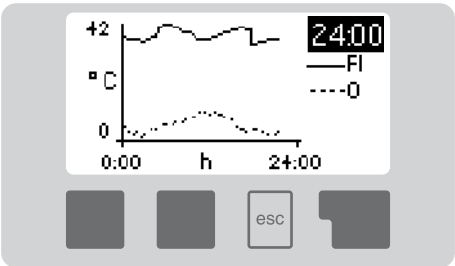
The clear menu offers options for request, analysis and setting.



The self explanatory operator guidance allows the simple parametrisation, assisted with functional explanations.

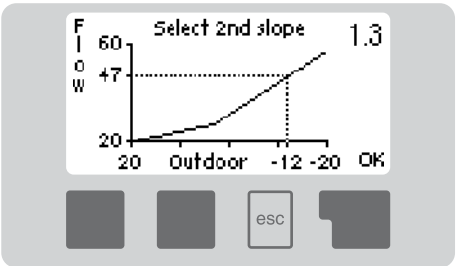


Confirmation dialogs and menu block functions prevent unwanted misadjustments.



The function control and the long term monitoring of the installation is provided by recording and evaluating of the data.

The split heating curve is used to produce the most comfortable temperature in different building conditions.



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