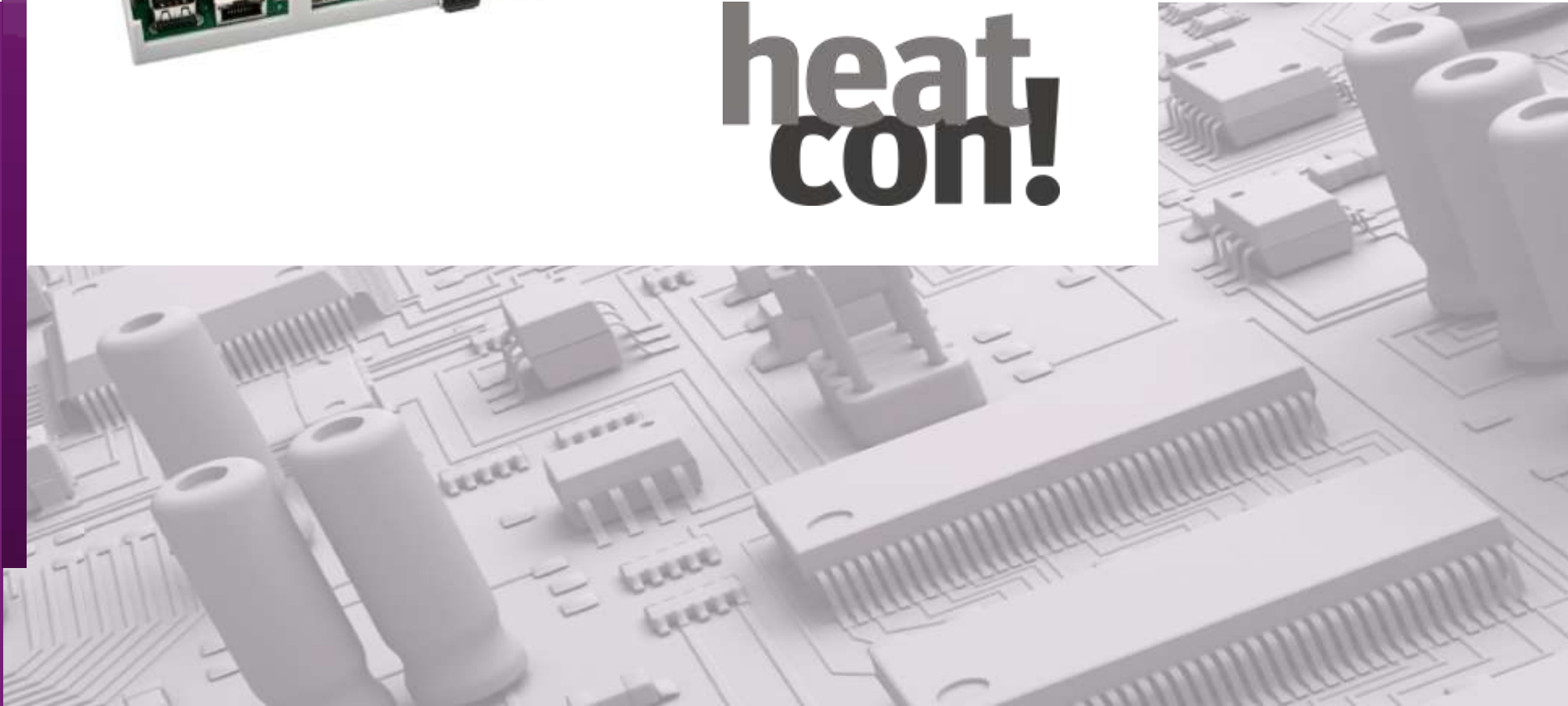


heatcon! Installation

ebv
elektronik

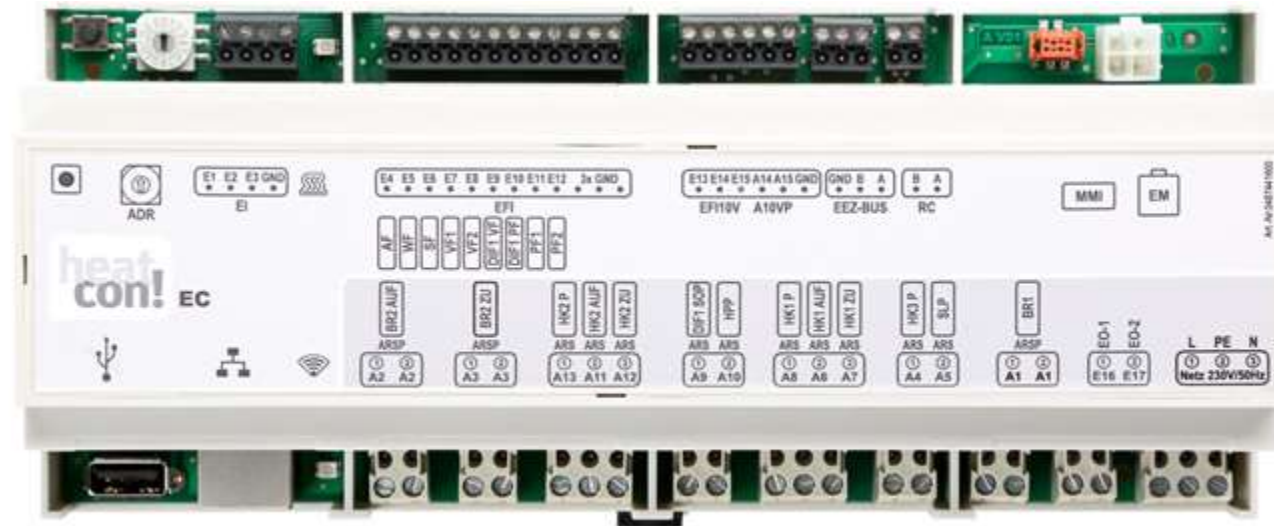


**heat
con!**



heatcon! Installation

The installation of the heatcon! system can be done in two different ways. During the installation the automatic assignment of the inputs and outputs takes place, according to the hydraulics selected in the setup wizard.



heatcon! connections

ARSP	Output relay closer potential-free
ARS	Output relay closer
A10VP	Output 10V PWM (pulse width modulation)
ADR	Address coding switch
EI	Input impuls
EFI	Input sensor impuls
EFI10V	Input sensor impuls 10V
EO	Input Optocoupler (operating hours counter)
EEZ-Bus	Energy generator bus
EM	Extension module
RC	Roomcontrol
MMI	Multi Media Interface

heatcon! Setup wizard

Navigation on the MMI is carried out by turning and pressing.



Welcome to the initial setup

The initial setup guides you through the menu to adjust the system. Please start by pressing the arrow button on the right side.



heatcon! Installation network (not available at MMI)

The network side is divided into three parts:

- Setting up the connection to the router via LAN
- The connection to heatapp! connect
- Participation in the continuous improvement process

Attention: heatcon! cannot connect to WLAN!

login ✓ > network ✓ > energy generator ✓ > rooms ✓ > name heating system ✓ > user ✓ > Date / time ✓

network

heatcon! ec has to be integrated into the network to allow access. Please chose your network connection.

network connection via LAN192.168.104.93

MAC address:08:52:40:01:2b:09

network configuration automatically

network configuration manual

network connection via WLAN

proxy server configuration

Apply network configuration

heatapp! connect

Would you like to operate the heating system from anywhere via Internet? Acitvate the connection to heatapp! connect.

no

connection to heatapp! connect

Participation in the continuous improvement process

Allow the system to send anonymous usage data to participate in the continuous improvement process.

yes

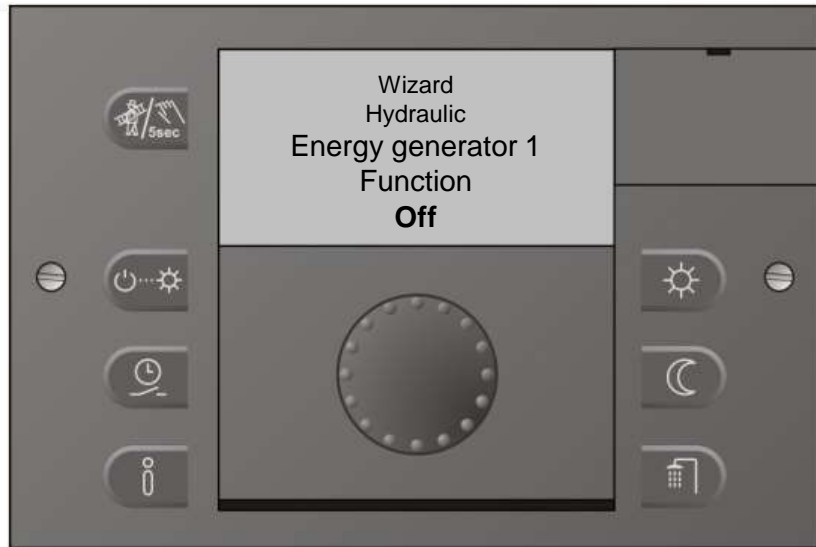
Activate participation in the continuous improvement process

heatcon! only MMI



Note: When using a PC / laptop / tablet / smartphone, the language of the operating device is selected automatically.

heatcon! Energy generator 1



Possibilities:

- Single-stage burner
- Two-stage burner
- Power signal on/off
- Burner control system (OT/BUS)
- Temperature signal 10V
- Release contact
- Power signal 10V

login ✓ network ✓ energy generator ✓ rooms ✓ name heating system ✓ user ✓ Date / time ✓

energy generator

1	energy generator 1 select
Choose the type of the connected heat generator. Optional you can change the name.	
type	<div>off</div> <div>off</div> <div>single-stage burner</div> <div>two-stage burner</div> <div>power signal on/off</div> <div>burner control system (OT/Bus)</div> <div>temperature signal 10V</div> <div>release contact</div> <div>power signal 10V</div>
name	
2	energy generator 2 select
3	heating buffer TODO-call find-heatcon[558]@short_description
4	domestic hot water Has the domestic hot water to be carried out by the system
5	heating circuit valve 1 Setting of heat circuit 1
6	heating circuit valve 2 Setting of heat circuit 2
7	heating circuit 3 Setting of heat circuit 3
8	differential control 1 function differential control 1
9	Single room heat regulation Here you can configure the individual room control.

heatcon! Energy generator In- / Outputs

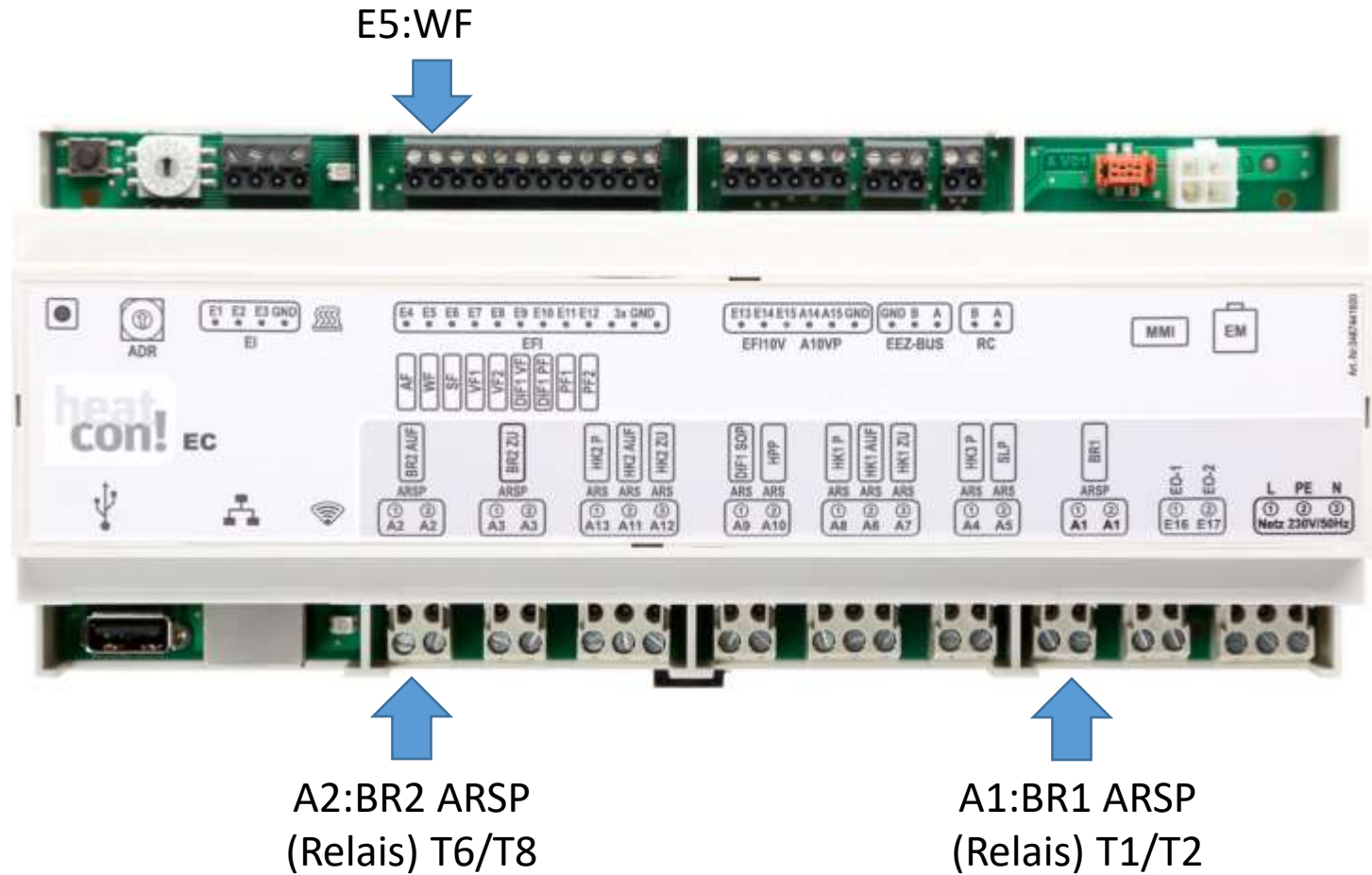
Wizard
Energy generator 1
Function
Single-stage burner



A1:BR1 ARSP
(Relais) T1/T2

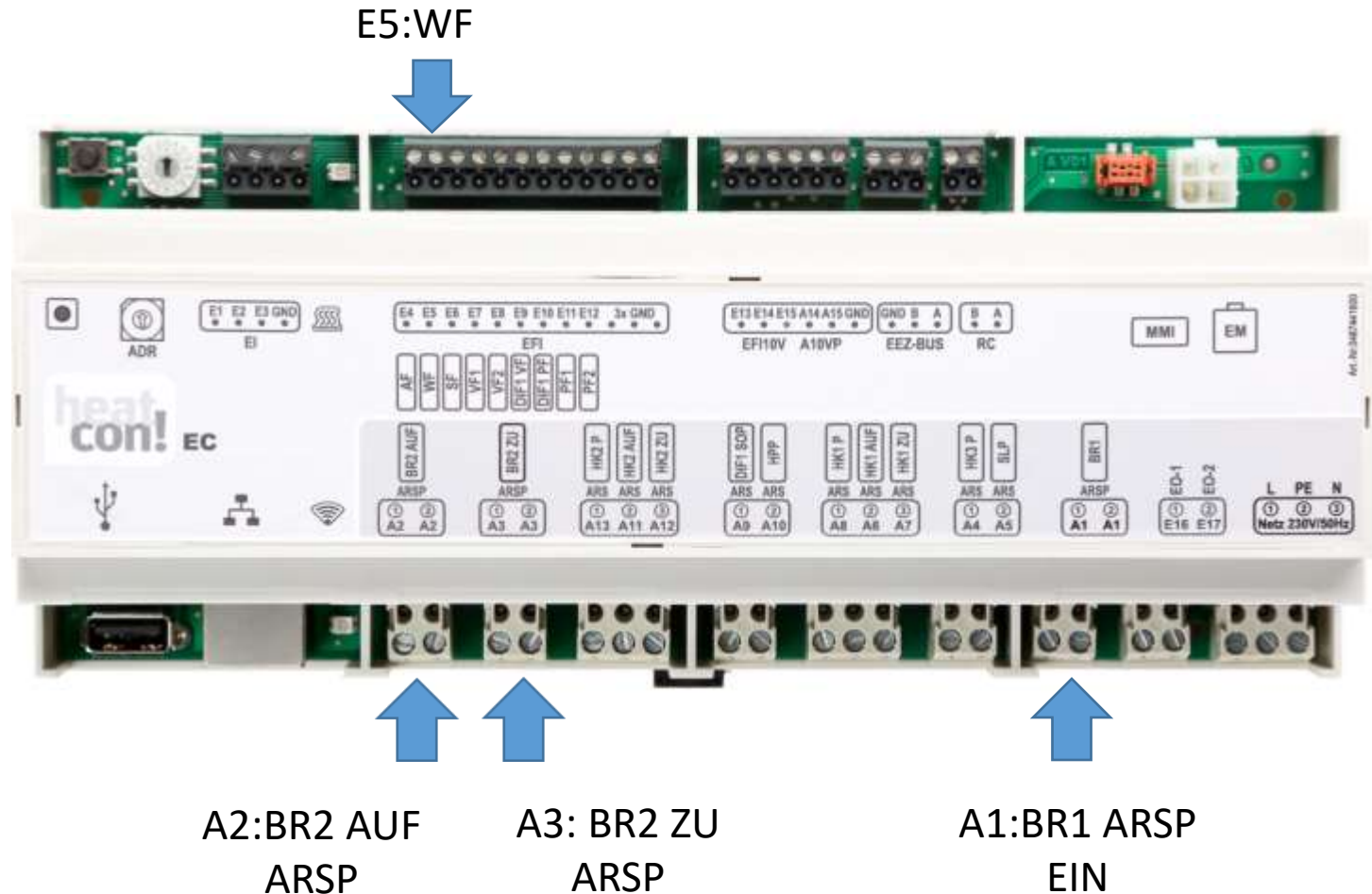
heatcon! Energy generator In- / Outputs

Wizard
Energy generator 1
Function
Two-stage burner



heatcon! Energy generator In- / Outputs

Wizard
Energy generator 1
Function
Power signal ON/OFF



heatcon! Energy generator In- / Outputs

EEZ-BUS: Burner control system (OT)



Wizard
Energy generator 1
Function
Burner control system



heatcon! Energy generator In- / Outputs

A14:A10VP

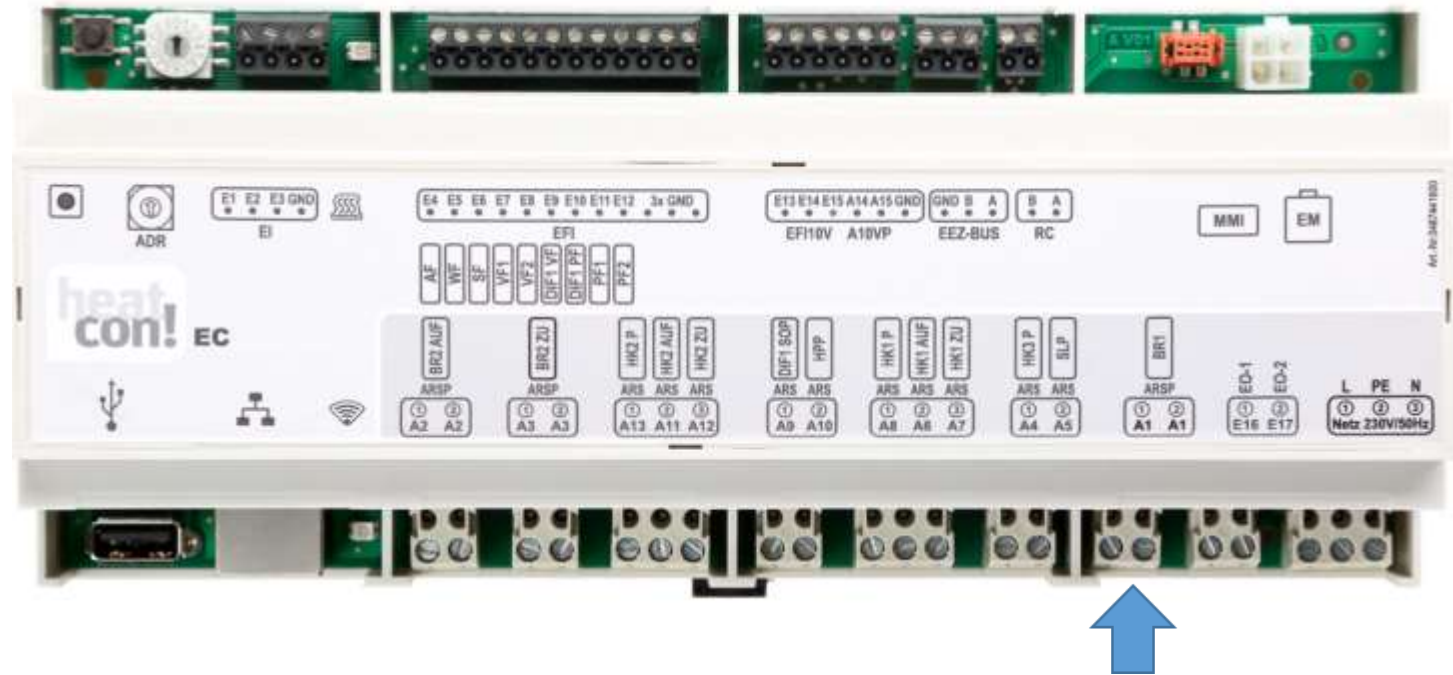


Wizard
Energy generator 1
Function
Temperature signal 10V



heatcon! Energy generator In- / Outputs

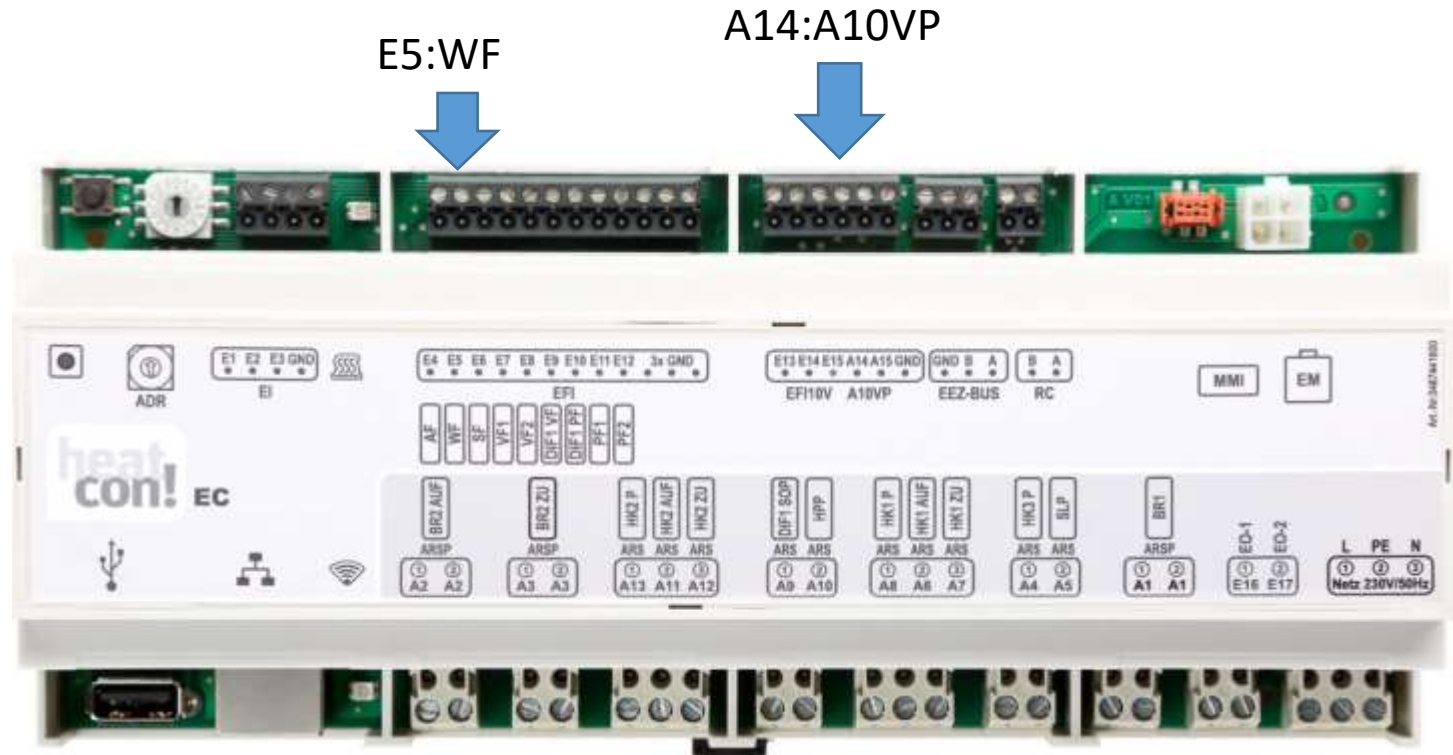
Wizard
Energy generator 1
Function
Release contact



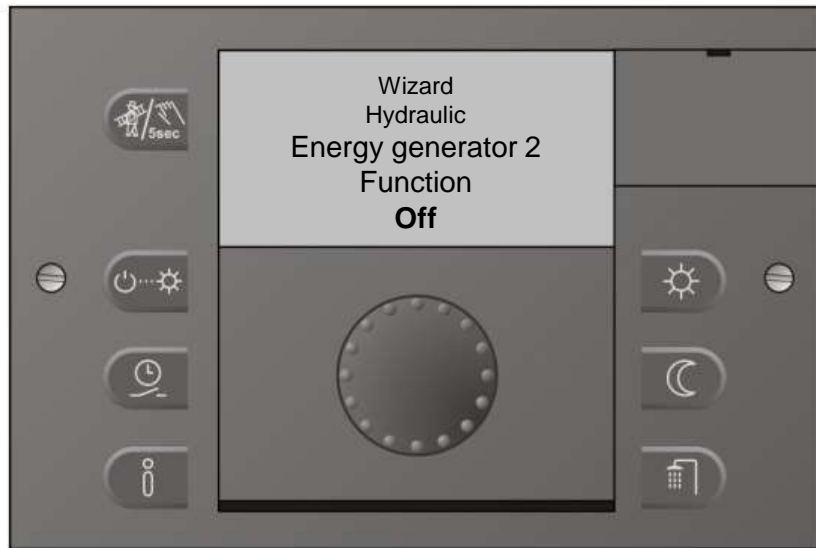
A1:BR1 ARSP
(Relais) ON/OFF

heatcon! Energy generator In- / Outputs

Wizard
Energy generator 1
Function
Power signal 10V



heatcon! Energy generator 2



Possibilities:

Depending on the energy generator 1 selected, 2 different options are available for the energy generator 2.

A screenshot of the heatcon! Energy generator 2 configuration interface. The interface is a web-based form with a breadcrumb trail at the top: 'login' > 'network' > 'energy generator' > 'rooms' > 'water heating system' > 'user' > 'Date / time'. The main title is 'energy generator'. Below the title, there are two main sections. The first section is 'energy generator 1' with a dropdown menu showing 'type single-stage burner (name --)' and a checkmark icon. The second section is 'energy generator 2' with a dropdown menu showing 'select'. Below this, there is a text field for 'Choose the type of the connected heat generator. Optional you can change the name.' and a dropdown menu for 'type' with the following options: 'off', 'single-stage burner', 'burner control system (OT/Bus)', 'temperature signal 10V', 'release contact', and 'power signal 10V'. The 'type' dropdown is currently set to 'off'. Below the 'type' dropdown, there is a text field for 'name'. The interface also includes a list of other configuration options: '3 heating buffer', '4 domestic hot water', '5 heating circuit valve 1', '6 heating circuit valve 2', '7 heating circuit 3', '8 differential control 1', and '9 Single room heat regulation'.

heatcon! Energy generator In- / Outputs

Minicascade

Wizard
Energy generator 2
Function
Release contact

*only if GEN 1:
Single-stage
Burner control system
Power signal 10V
Release contact
Power signal 10V (PWM)*



A2:BR2 ARSP
(Relais) ON/OFF

heatcon! Energy generator In- / Outputs

Minicascade

Wizard

Energy generator 2

Function

Power signal 10V (PWM)

Only if GEN 1:

Single-stage

Burner control system

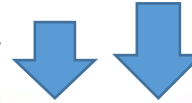
Power signal 10V

Release contact

Power signal 10V (PWM)

E13:EFI10V
WF2

A15:A10VP

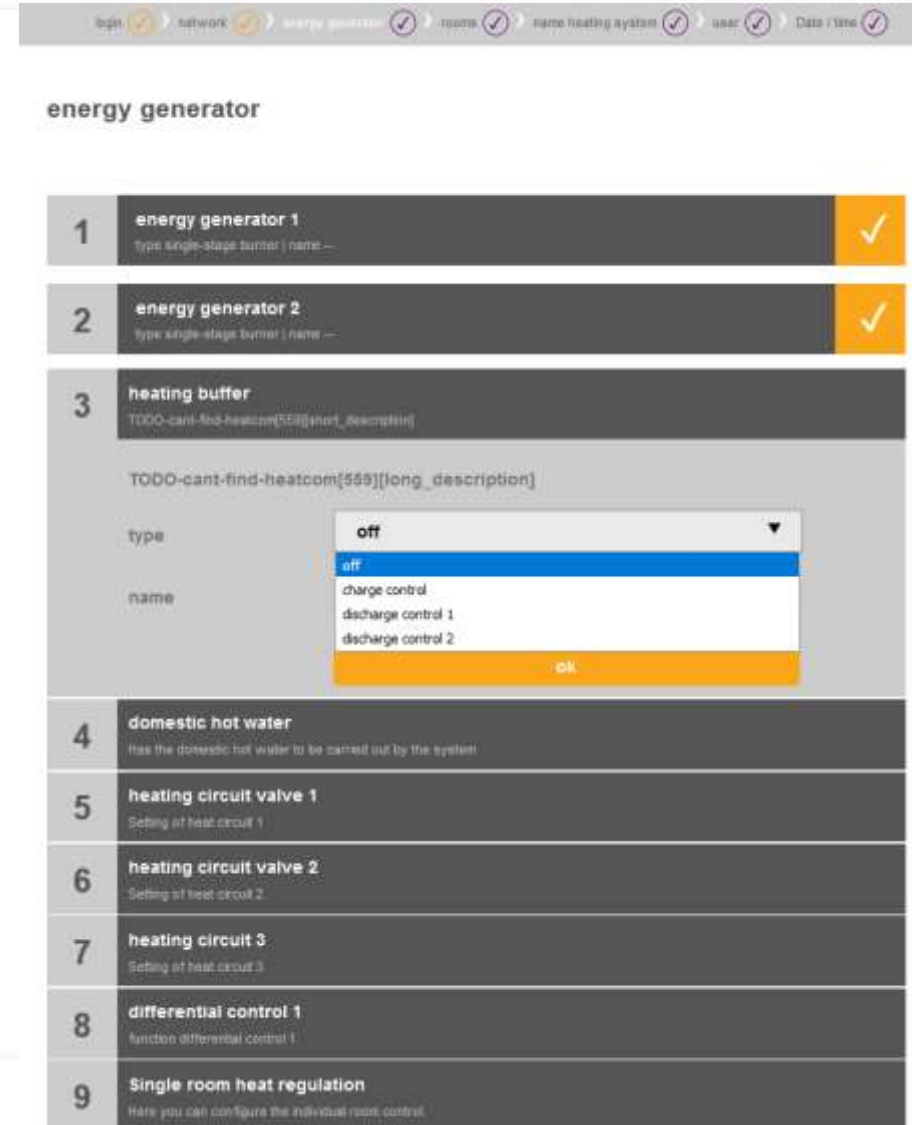


heatcon! Heating buffer



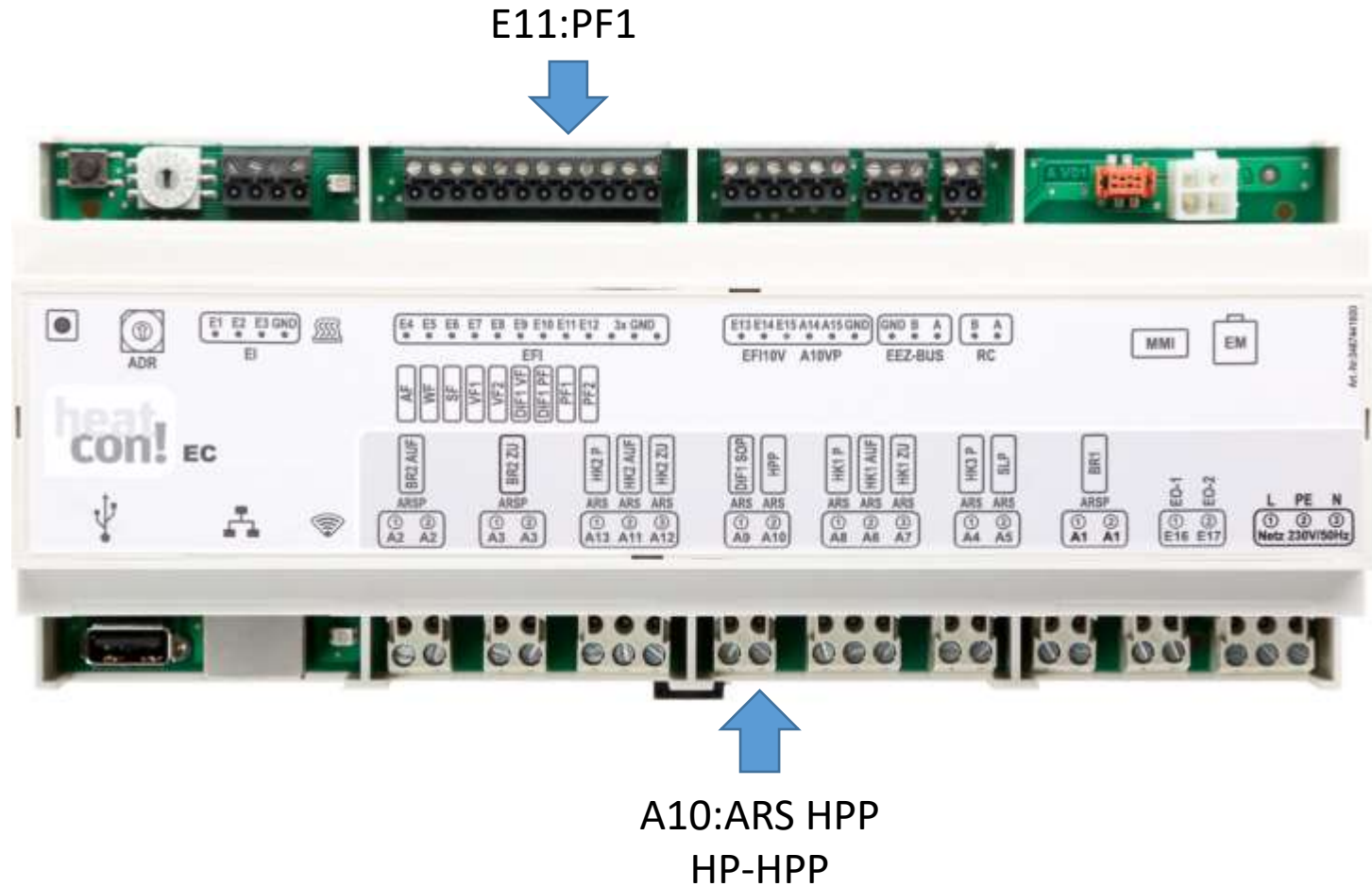
Possibilities:

- Charge control
- Discharge control 1
- Discharge control 2



heatcon! Heating buffer In-/Outputs

Wizard
Heating buffer
Function
Charge control



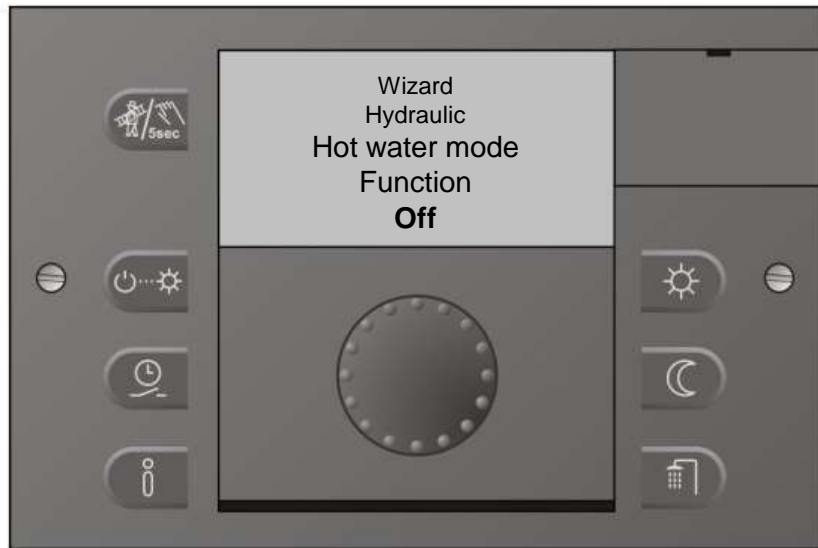
heatcon! Heating buffer In-/Outputs

E11:PF1



Wizard
Heating buffer
Function
Discharge control 1 / 2

heatcon! Domestic hot water



Possibilities:

- Storage pump
- Circulation pump
- Heating usage

login network energy generator rooms name heating system user Date / time

energy generator

- energy generator 1**
type single-stage burner / name — ✓
- energy generator 2**
type single-stage burner / name — ✓
- heating buffer**
type charge control / name — ✓
- domestic hot water**
Has the domestic hot water to be carried out by the system.

Please select the function for domestic hot water.

domestic hot water:

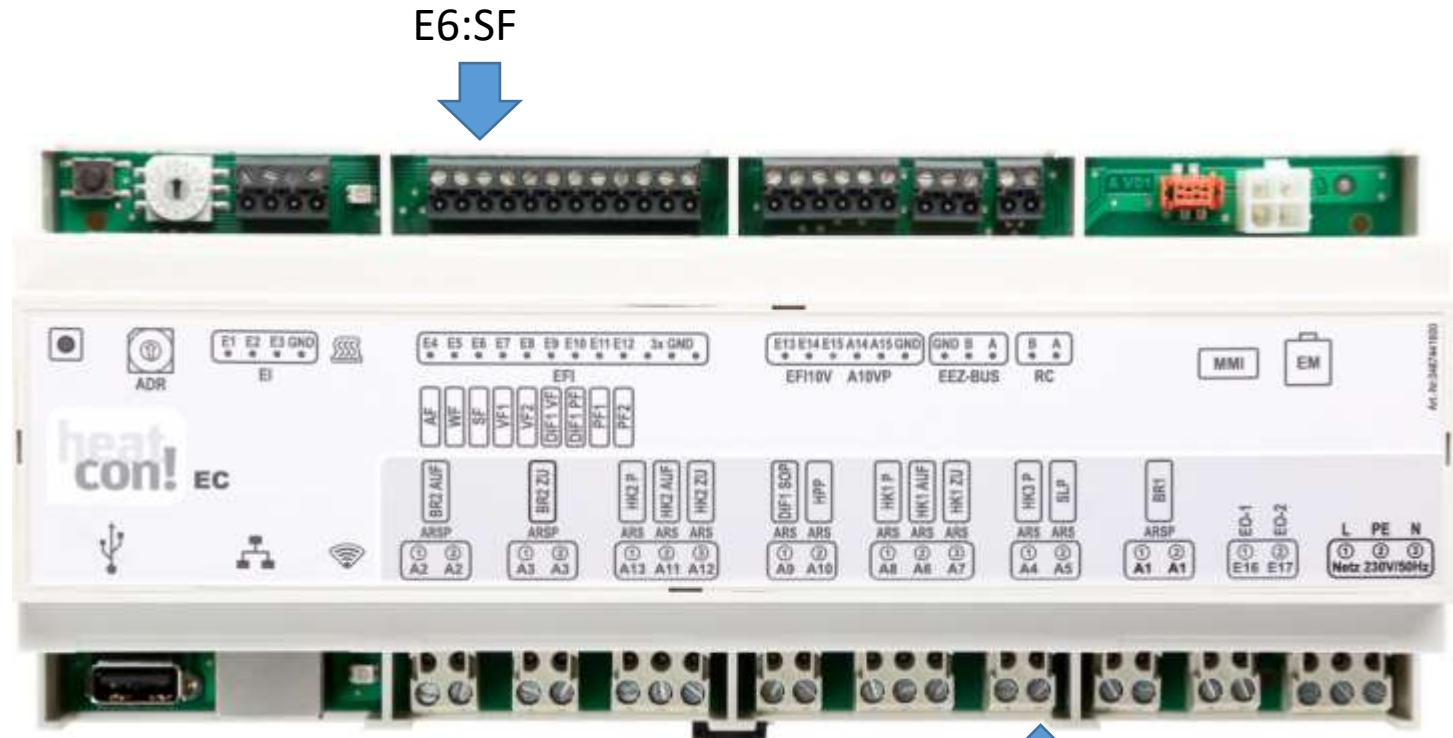
off
off
storage pump
circulation pump
heating usage

name:

ok
- heating circuit valve 1**
Setting of heat circuit 1
- heating circuit valve 2**
Setting of heat circuit 2
- heating circuit 3**
Setting of heat circuit 3
- differential control 1**
function differential control 1
- Single room heat regulation**
Here you can configure the individual room control.

heatcon! Domestic hot water – In-/Outputs

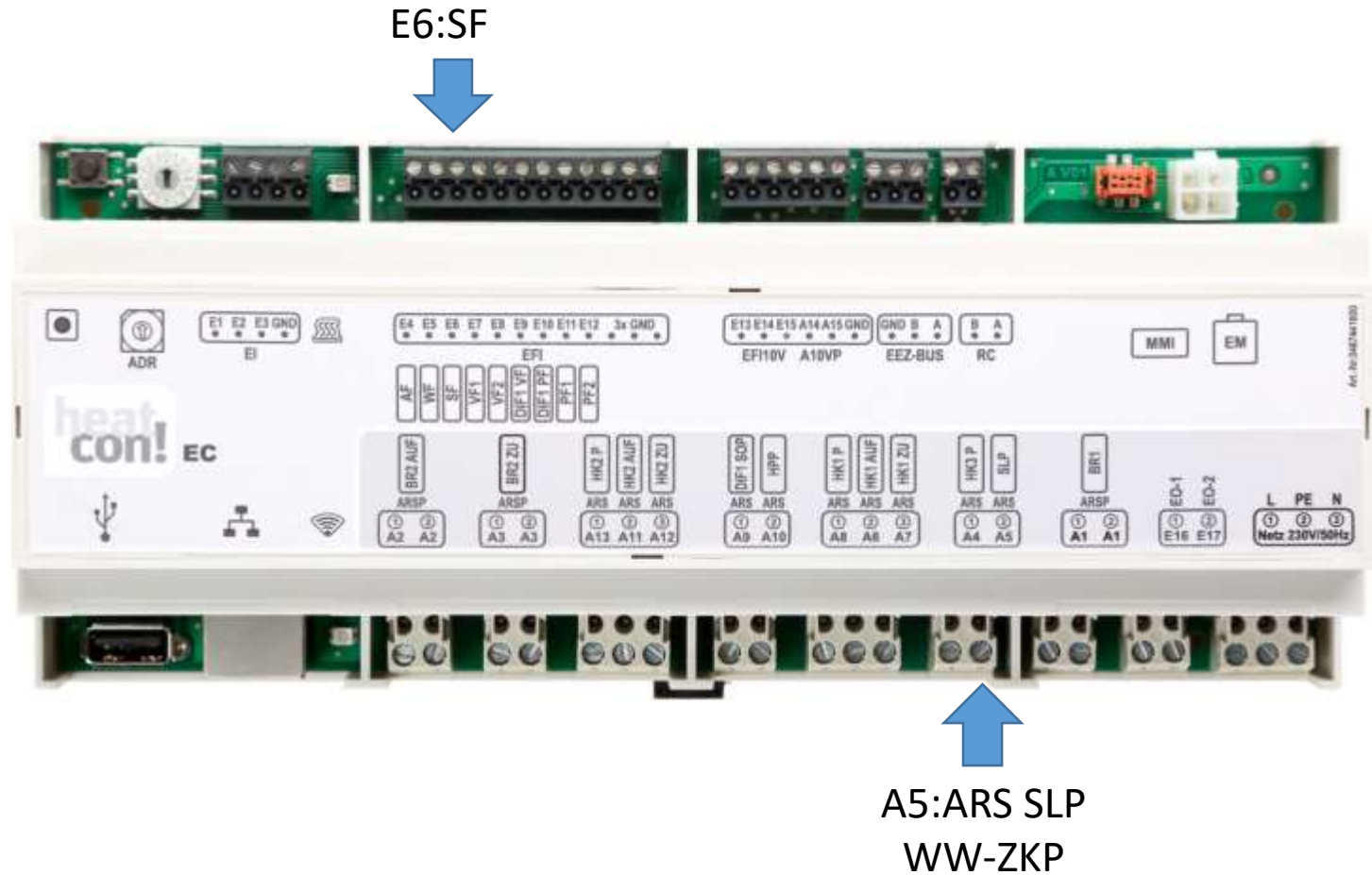
Wizard
Hot water mode
Function
Storage pump



A5:ARS SLP
WW-SLP

heatcon! Domestic hot water – In-/Outputs

Wizard
Hot water mode
Function
Circulation pump



heatcon! Domestic hot water – In-/Outputs

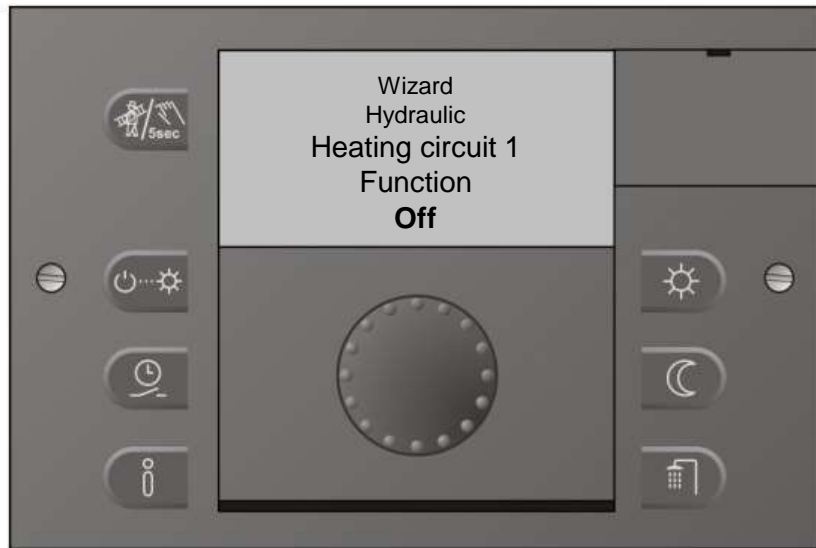
E6:SF (DHW-Heating usage)



A5:ARS SLP
DHW-Heating usage

Wizard
Hot water mode
Function
Heating usage

heatcon! Heating circuit 1



Possibilities:

- Direct heating circuit
- Mixed circuit

energy generator

1	energy generator 1 type single-stage burner name --	✓
2	energy generator 2 type single-stage burner name --	✓
3	heating buffer type charge control name --	✓
4	domestic hot water domestic hot water storage pump name --	✓
5	heating circuit valve 1 Setting of heat circuit 1 The heat circuit 1 can be activated as mixer unit or a direct heat circuit or can be deactivated. heating circuit 1 <div><div>mixer circuit</div><div>off</div><div>direct circuit</div><div>river circuit</div></div> name <div>ok</div>	
6	heating circuit valve 2 Setting of heat circuit 2	
7	heating circuit 3 Setting of heat circuit 3	
8	differential control 1 function differential control 1	
9	Single room heat regulation Here you can configure the individual room control	

heatcon! Heating circuit 1 - In-/Outputs

Wizard
Heating circuit 1
Function
Direct heating circuit

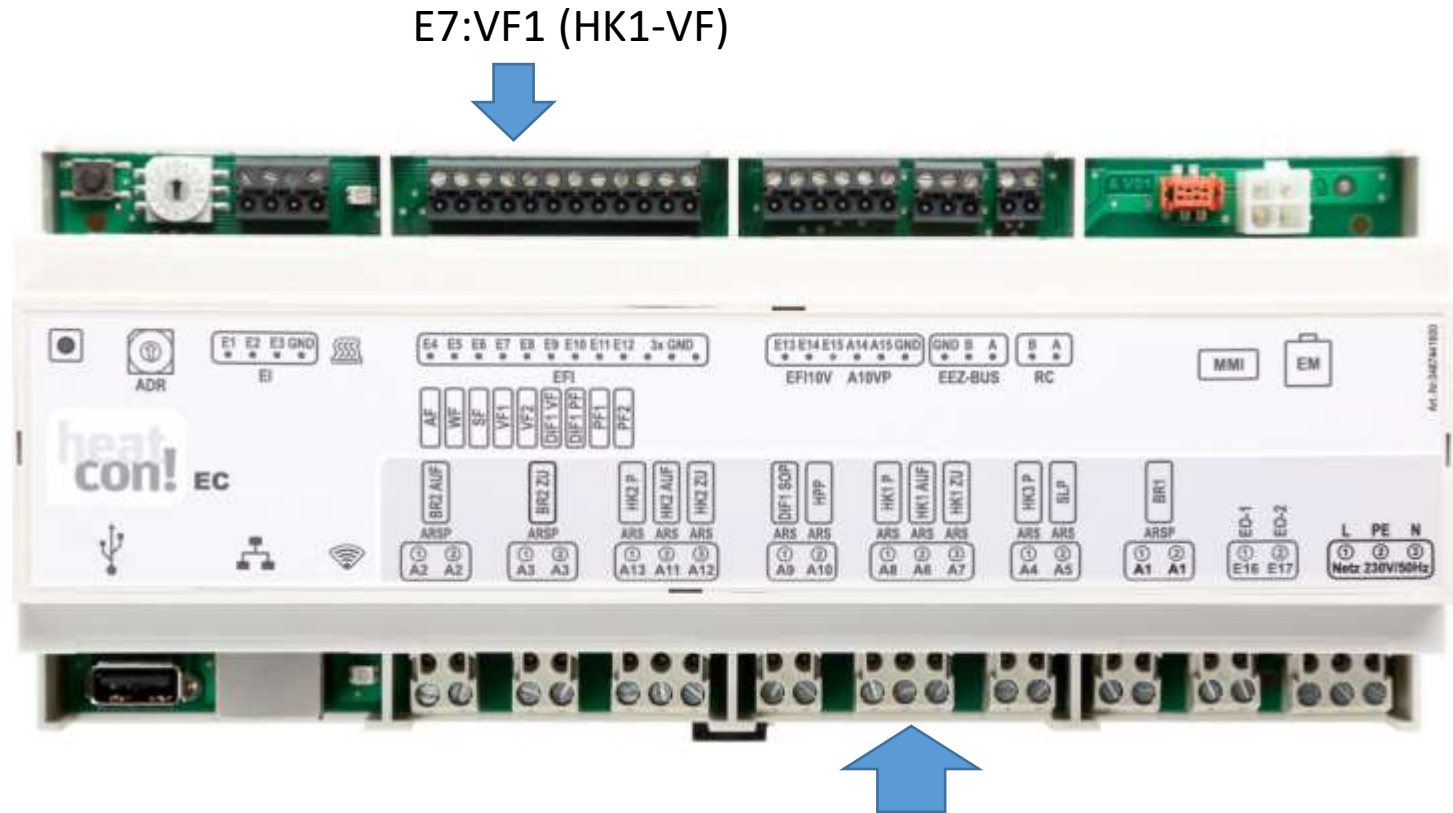


*Please note during planning and installation.
Only heating circuit 1 and 2
can be used as mixed circuits
at the heatcon! EC.*

A8:ARS HK1P
HK1-HKP

heatcon! Heating circuit 1 - In-/Outputs

Wizard
Heating circuit 1
Function
Mixed circuit



E7:VF1 (HK1-VF)

A6:ARS HK1-AUF
A7:ARS HK1-ZU
A8:ARS HK1P(HK1-HKP)

heatcon! Heating circuit 2



Possibilities:

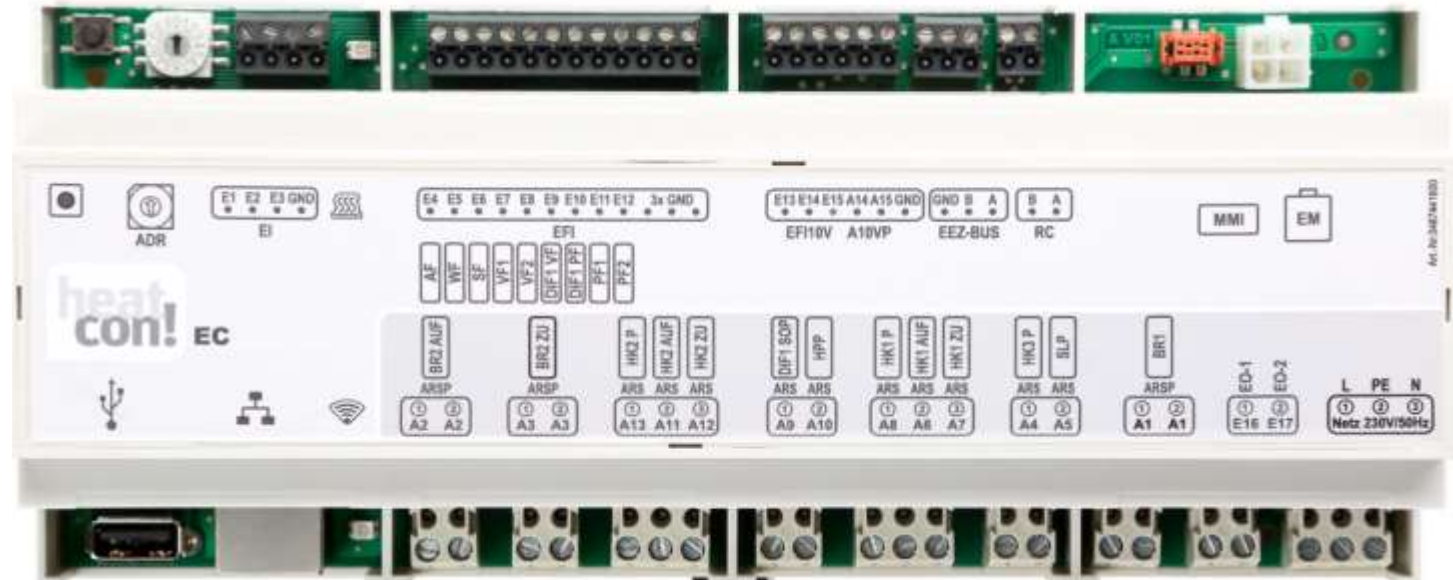
- Direct heatcin circuit
- Mixed circuit

energy generator

1	energy generator 1 type single-stage burner name --	✓
2	energy generator 2 type single-stage burner name --	✓
3	heating buffer type charge control name --	✓
4	domestic hot water domestic hot water storage pump name --	✓
5	heating circuit valve 1 heating circuit 1 mixer circuit name --	✓
6	heating circuit valve 2 Setting of heat circuit 2 The heat circuit 2 can be activated as mixer unit or a direct heat circuit or can be deactivated. heating circuit 2 <input type="text" value="off"/> name <input type="text" value="off"/> <input type="text" value="direct circuit"/> <input type="text" value="mixer circuit"/> <input type="button" value="ok"/>	
7	heating circuit 3 Setting of heat circuit 3	
8	differential control 1 function differential control 1	
9	Single room heat regulation here you can configure the individual room control	

heatcon! Heating circuit 2 – In-/Outputs

Wizard
Heating circuit 2
Function
Direct heating circuit

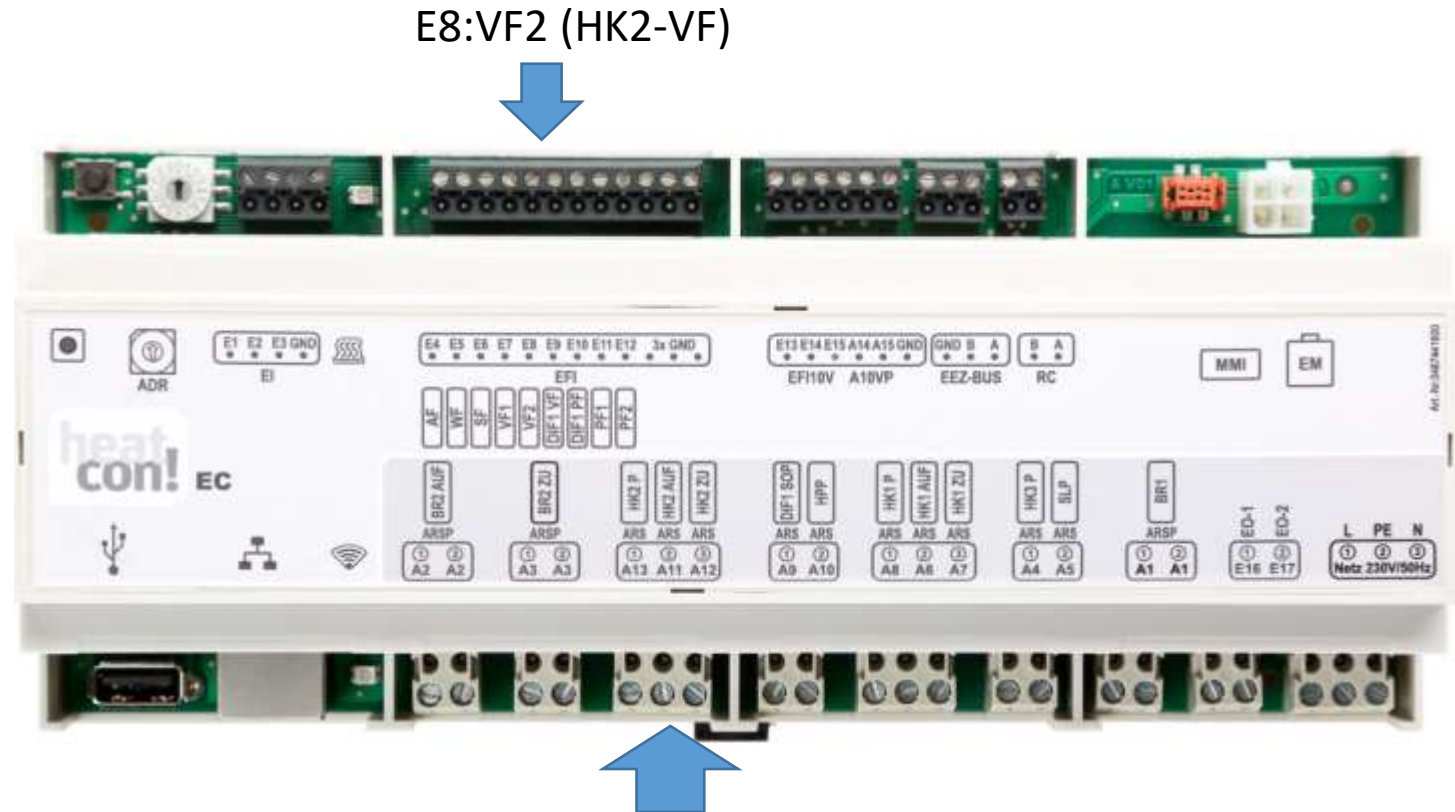


*Please note during planning and installation.
Only heating circuit 1 and 2
can be used as mixed circuits
at the heatcon! EC.*

A13:ARS HK2P
HK2-HKP

heatcon! Heating circuit 2 – In-/Outputs

Wizard
Heating circuit 2
Function
Mixed circuit



A11:ARS HK2-AUF
A12:ARS HK2-ZU
A13:ARS HK2P(HK2-HKP)

heatcon! Heating circuit 3



Possibilities:

- Direct heating circuit

energy generator

1	energy generator 1 type single-stage burner (name --)	✓
2	energy generator 2 type single-stage burner (name --)	✓
3	heating buffer type charge control (name --)	✓
4	domestic hot water domestic hot water storage pump (name --)	✓
5	heating circuit valve 1 heating circuit 1 mixer circuit (name --)	✓
6	heating circuit valve 2 heating circuit 2 mixer circuit (name --)	✓
7	heating circuit 3 Setting of heat circuit 3 The heat circuit 3 can be activated as mixer unit or a direct heat circuit or can be deactivated. heating circuit 3 <input type="text" value="off"/> name <input type="text" value="direct circuit"/> <input type="button" value="ok"/>	
8	differential control 1 function differential control 1	
9	Single room heat regulation Here you can configure the individual room control	

heatcon! Heating circuit 3 – In-/Outputs

Wizard
Heating circuit 3
Function
Direct heating circuit



A4:ARS HK3P
HK3-HKP

heatcon! Differential control



Possibilities:

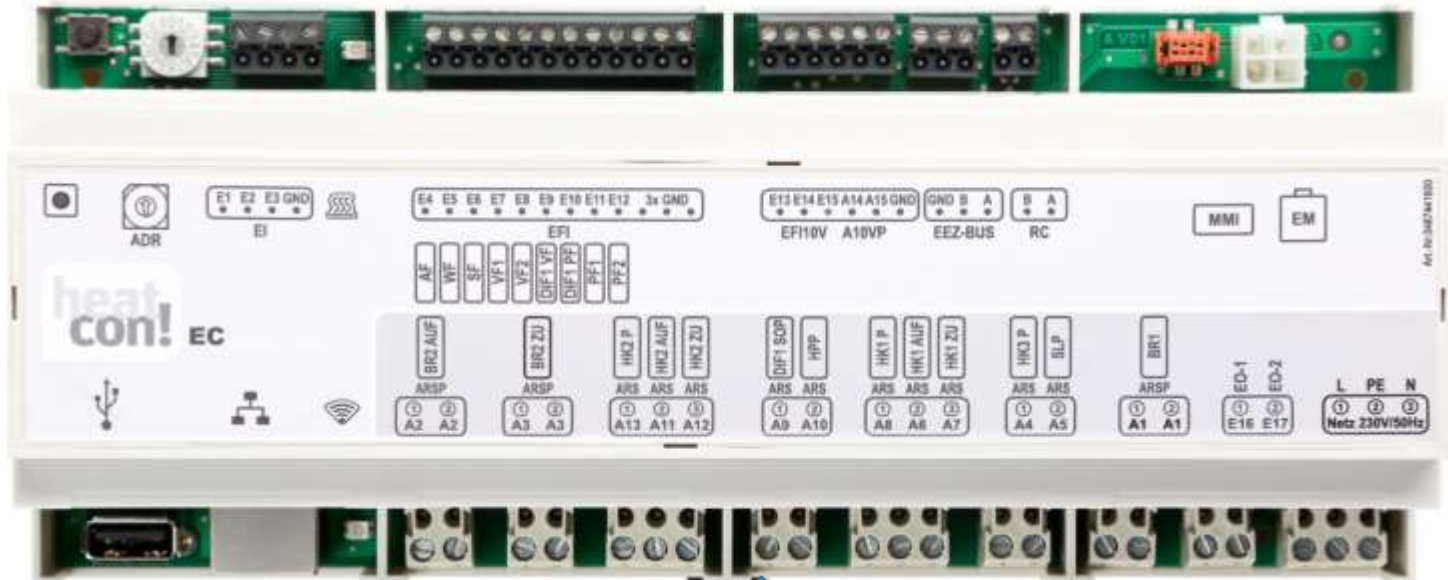
- Solar
- Solid
- Difference

energy generator

1	energy generator 1 type single-stage burner name --	✓
2	energy generator 2 type single-stage burner name --	✓
3	heating buffer type charge control name --	✓
4	domestic hot water domestic hot water storage pump name --	✓
5	heating circuit valve 1 heating circuit 1 mixer circuit name --	✓
6	heating circuit valve 2 heating circuit 2 mixer circuit name --	✓
7	heating circuit 3 heating circuit 3 heating circuit name --	✓
8	differential control 1 function differential control 1 select the function for differential control 1 Differential control type off name <div><div>off</div><div>solar</div><div>solid</div><div>difference</div></div> <div>ok</div>	
9	Single room heat regulation Here you can configure the individual room control.	

heatcon! Differential control – In-/Outputs

E9:EF DIF1-VF / E10:EF DIF1-PF



A9:ARS DIF1 SOP
DIF1-SOP

Wizard
Differential control 1
Function
Solar

heatcon! Single-room control (not available at MMI)

heatcon! is heatapp! ready

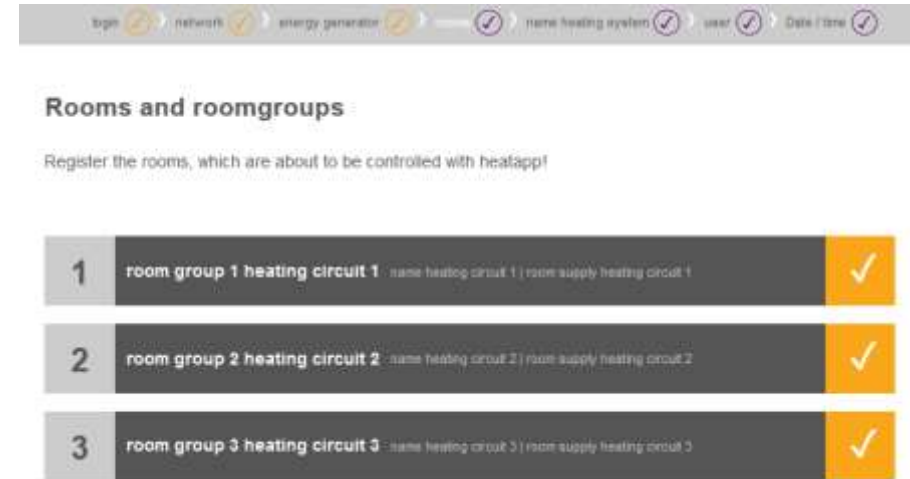
- heatapp! base is included at the **heatcon! EC!**
- heatapp! gateway and the radio components are compatible with the **heatcon! EC pro.**
- heatapp! app shows all data of **heatcon! EC pro.**

energy generator

1	energy generator 1 type single-stage burner name --	✓
2	energy generator 2 type single-stage burner name --	✓
3	heating buffer type charge control name --	✓
4	domestic hot water domestic hot water storage pump name --	✓
5	heating circuit valve 1 heating circuit 1 mixer circuit name --	✓
6	heating circuit valve 2 heating circuit 2 mixer circuit name --	✓
7	heating circuit 3 heating circuit 3 heating circuit name --	✓
8	differential control 1 Differential control type solar name --	✓
9	Single room heat regulation Here you can configure the individual room control. Turn off the individual room control when heatapp! gateway is not use. Single room heat regulation <div><div>active</div><div>inactive</div><div>active</div><div>ok</div></div>	

heatcon! Room groups (not available at MMI)

The heatcon! EC automatically creates a room group for each existing heating circuit, in which the room-specific parameters (such as comfort-, economy-, set-back- and frost protection temperature, summer mode, heating curve, etc.) are set later.



Attention: In heatcon! MMI the room groups will shown after finishing the setup wizard.

heatcon! Rooms_(not available at MMI)

If a heatapp! gateway is used for single room control, create here the rooms that are controlled with heatcon! Up to 24 rooms can be created. For each room the supply have to be selected so the system recognises where the heat demand is to be reported.

login ✓ > network ✓ > energy generator ✓ > rooms ✓ > name heating system ✓ > user ✓ > Date / time ✓

Rooms and roomgroups

Register the rooms, which are about to be controlled with heatapp!

1	room 1 Livingroom room name Livingroom room supply heating circuit 1	✓
2	room 2 Kitchen room name Kitchen room supply heating circuit 1	✓
3	room 3 Bathroom room name Bathroom room supply heating circuit 1	✓
4	room 4 Sleeping room name Sleeping room supply heating circuit 2	✓
5	Create a new heating zone	
<p>Please set a default name for the room, e.g. children's room. You can individualize room names in the app. If the heat source ist connected please allocate it to the room.</p>		
room name <input type="text"/>		
room supply <div><div>none ▼</div><div>heating circuit 1 heating circuit 2 heating circuit 3 heat buffer energy generator none</div></div>		

heatcon! Name heating system (not available at MMI)

login ✓ > network ✓ > energy generator ✓ > rooms ✓ > name heating system ✓ > user ✓ > Date / time ✓

name heating system

Fill in here the name of your heating system. This name is shown later in the heatapp! app. As plant location please fill in the postcode name of your residence to display the weather data.

name heating system:

plant location:

Under “name heating system” you assign a unique name for the heatcon! System, so that the owner can identify and so that you can clearly assign the system to your customer.

The plant location is required for displaying the weather symbols in the app (not relevant for control).

heatcon! User (not available at MMI)

login ✓ > network ✓ > energy generator ✓ > rooms ✓ > name heating system ✓ > user ✓ > Date / time ✓

user

To use the heatapp! base, the user must with username and password to login. Register at least two users who have the roles:

- Expert, for full access to all settings
 - Owner, for individualisation and user management
- Additional users can be added to at a later date.

Caution:

Without login credentials is the use of the heatapp! base not possible!
Keep the data.

Please create a new user. ✕

user role:

Please choose ▼

Please choose

user

owner

expert

first name:

name:

user name:

password:

repeat your password:

create

User roles:

Expert	=	Plumber
Owner	=	Owner
User	=	Users with assigned rights

Unlimited users with all roles can be created.

heatcon! Date / time (not available at MMI)

login ✓ > network ✓ > energy generator ✓ > rooms ✓ > name heating system ✓ > user ✓ > Date / time ✓

Date / time

system time: 21.05.2019 14:25 (Europe/Berlin)

time zone: Europe/Berlin ▼

time synchronisation

- ☒ automatic Internet synchronisation
- ☐ automatic time sync with your own NTP server.
- ☐ manual time setting

The time and date will be synced automatically with the standard time servers through the internet connection.

save

Attention: Date/time are only displayed after setup on the heatcon! MMI.

heatcon! setup finished

The basic setup of the heatcon! system is finished. The extended setup takes place in the configuration menu. There you can

- sensors can be assigned to several functions
- free inputs and outputs configured for functions
- additional functions be activated

heatcon! Hydraulic examples

A collection of hydraulic examples with the corresponding configuration options can be found in the heatcon system manual!
under

<https://ebv-gmbh.eu/downloads/>

heatcon!

If you have any questions, please contact our technical support.

Phone: 02736 44 305 901

E-mail: info@ebv-gmbh.de

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heat con!

