

Configuration wizard

WRS-K



Contents	2
Installation / commissioning / operating overview	3
Post-configuration, air quality / CO ₂ sensor	4
Post-configuration remote control	5
Post-configuration, LON / BacNet / ModBus / Ethernet / KNX interface	6
Post-configuration, pressure control / flow rate control / cooling function	7
New configuration controller	8
System configuration	12
Configuration for pressure or flow rate control	15
Notes	19

1. Commissioning

- According to EN 50110-1, only qualified electricians may carry out the installation and commissioning of the ventilation control unit and connected accessories.
- Observe all regulations stipulated by your local power supply utility and all VDE or local regulations.
- DIN VDE 0100 regulations regarding the installation of high voltage systems up to 1000 V.
- DIN VDE 0105-100 operation of electrical systems.
- Only original Wolf accessories may be used (electric heater bank, condensate pump, servomotors, etc.), otherwise, Wolf cannot provide a warranty.

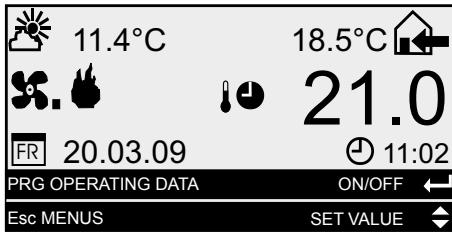
Operating overview



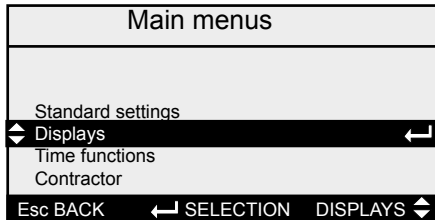
- ① Displaying and acknowledging active fault messages
- ② Displaying the system operating data (set / actual values)
- ③ Access to the main menu
- ④ Forward scrolling within a menu and increasing values
- ⑤ Switching the system ON and OFF, selecting menu points, confirming inputs
- ⑥ Backwards scrolling within a menu and reducing values

2. When retrofitting an air quality sensor (mixed gas or VOC, CO₂) follow the instructions below.

Configuration



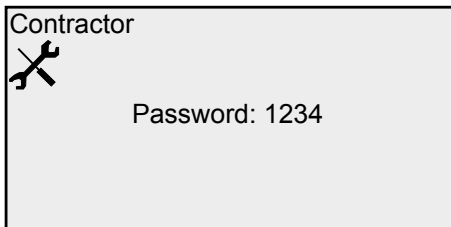
Press **Esc** button



Select "Heating contractor" with **↑↓** and confirm with Enter **↵**

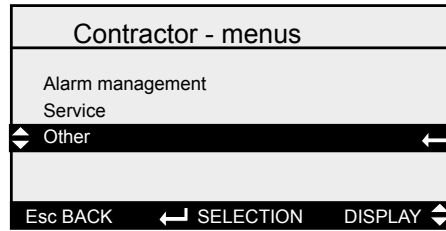


Continue with **↵**

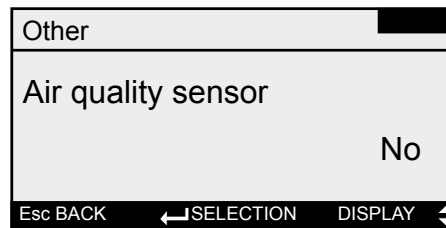


Select 1234 with **↑↓** and confirm with Enter **↵**

Activation

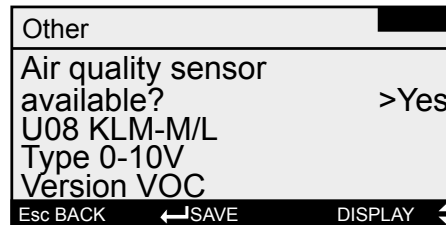


Select "Other" with **↑↓** and confirm with Enter **↵**



Using **↑↓** select "Air quality sensor" and press Enter **↵** to activate re-configuration.

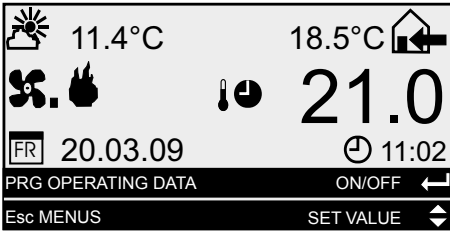
Select "Yes" with **↑↓** and confirm with Enter **↵**



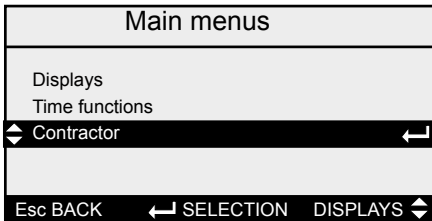
Use Enter **↵** to confirm the input port "U8" and type "0-10 V"

Use **↑↓** to select the variant "VOC" or "CO₂"

3. Proceed as follows to re-configure a remote control



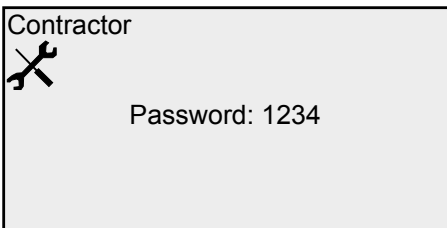
Press **Esc** button



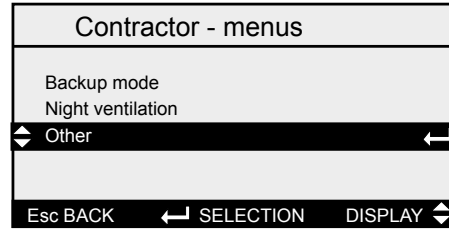
Select "Heating contractor" with $\uparrow\downarrow$ and confirm with Enter \leftarrow



Continue with \leftarrow



Select 1234 with $\uparrow\downarrow$ and confirm with Enter \leftarrow



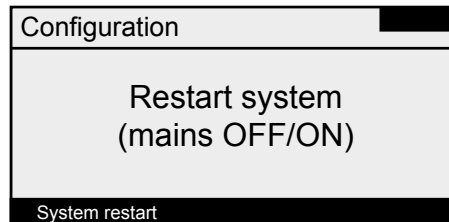
Select "Other" with $\uparrow\downarrow$ and confirm with Enter \leftarrow



Select "Remote control" with $\uparrow\downarrow$ and confirm with \leftarrow

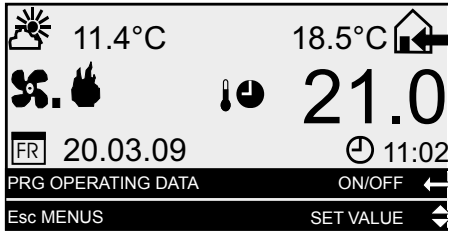


Select "Yes" with $\uparrow\downarrow$ and confirm with Enter \leftarrow

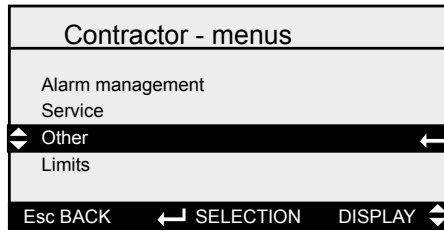


Switch power supply to control unit OFF and ON again
The remote control is enabled

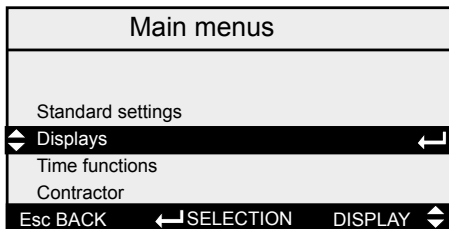
4. Proceed as follows for the re-configuration of a LON / BacNet / Modbus / Ethernet / KNX interface.



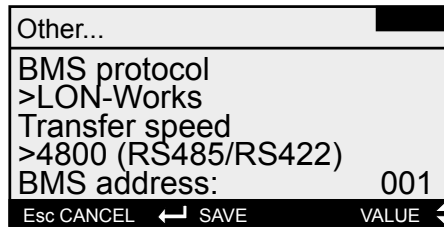
Press **Esc** button



Select "Other" with $\uparrow\downarrow$ and confirm with Enter \leftarrow



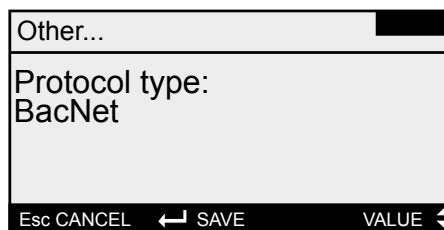
Select "Heating contractor" with $\uparrow\downarrow$ and confirm with Enter \leftarrow



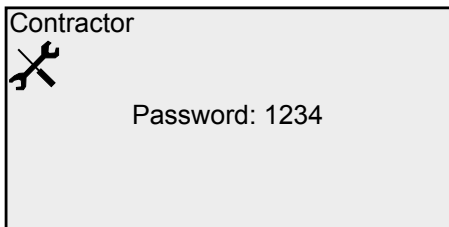
Confirm with \leftarrow



Continue with \leftarrow



Select required connection with $\uparrow\downarrow$



Select 1234 with $\uparrow\downarrow$ and confirm with Enter \leftarrow

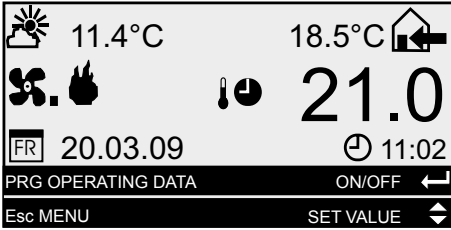
- No proto
- pCO Manager
- LON-Works
- Bac-Net
- Modbus Stave Standard
- Ethernet
- KNX

and confirm with Enter \leftarrow

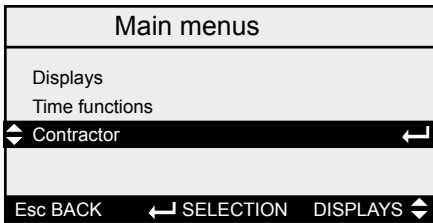
BMS protocol has been set
Hold down **Esc** button until you jump to the standard screen

5. A new configuration of the control unit must be performed in the first step for the re-configuration of a pressure/volume flow control unit or a cooling function.
Please note: The complete system configuration will be deleted and must be re-entered.

Step 1



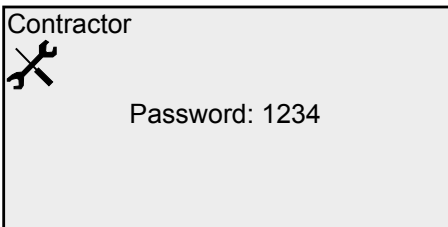
Press **Esc** button



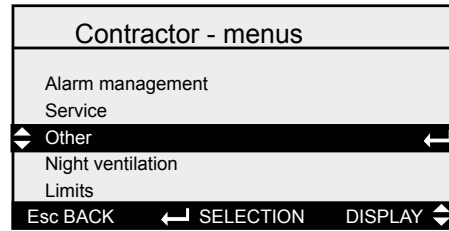
Select "Heating contractor" with $\uparrow\downarrow$ and confirm with Enter \leftarrow



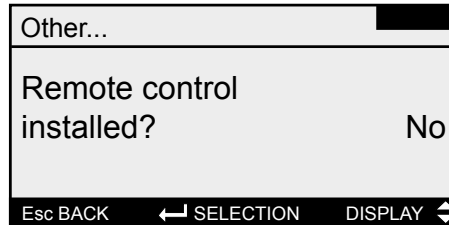
Continue with \leftarrow



Select 1234 with $\uparrow\downarrow$ and confirm with Enter \leftarrow



Select "Other" with $\uparrow\downarrow$ and confirm with Enter \leftarrow

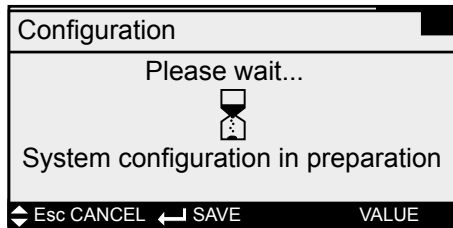


Confirm with \leftarrow

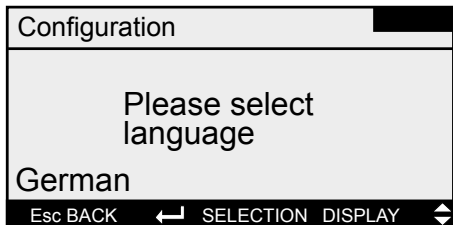


Select "Yes" with $\uparrow\downarrow$ and confirm with Enter \leftarrow

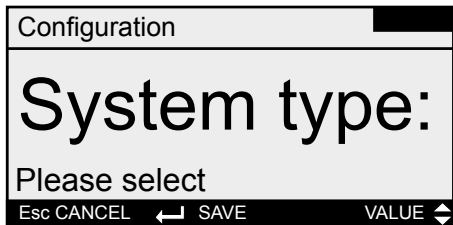
6. To make an individual control adjustment, you must go through the whole system configuration process.



Operation (selection) is carried out with the arrow keys $\uparrow\downarrow$, the selected function is confirmed with Enter \rightarrow , and then the next menu is opened automatically. You can return to a menu with **Esc** to change incorrect settings.



Select language:
 German, English, French, Dutch, Italian, Spanish, Portuguese, Hungarian, Swedish, Danish, Russian, Czech, Slovak, Slovenian, Polish, Latvian, Lithuanian



The following selection is possible via arrow keys:
 Ventilation air system
 Vent./extr. air system
 Confirm selected system type with Enter

Factory setting	Customer setting
Vent./extr. air system	



Select fan speed:
 Single stage
 Two-stage
 Three-stage
 Variable
Pressure control
Flow rate control

Factory setting	Customer setting
Variable	

The settings shown under Step 2 must be entered according to whether pressure control or flow rate control is selected.

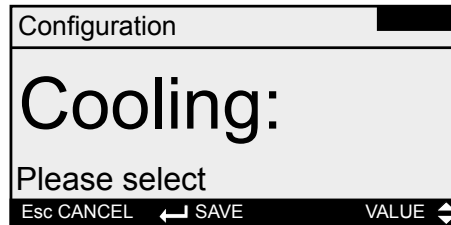


Depending on order

Factory setting	Customer setting
Electric heater bank variable	
DHW pump bank	

Select heating mode:

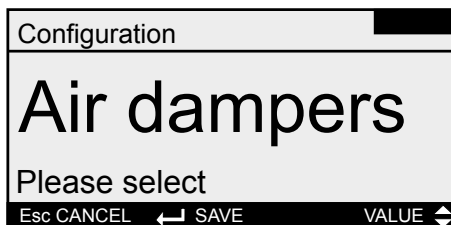
- No heating
- DHW pump bank
- El heater bank stage 1
- El heater bank stage 2
- El heater bank stage 3
- El heater bank stage 4
- El heater bank stage 5
- El heater bank var.
- KGWO
- Heat pump
- Heat pump (Stulz)*



Factory setting	Customer setting
No cooling	

Select cooling mode:

- No cooling
- Cold water pump bank
- Direct evap. stage 1
- Direct evap. stage 2
- Heat pump
- Heat pump (Stulz)*



Factory setting	Customer setting
Outs./dis. air dampers	

Select air dampers:

- No air dampers installed
- Mixer air dampers
- Mixer/vent/ex.air dmpr
- Outs./dis. air dampers
- vent/ex.air dmpr
- Outs./ex.air dmpr
- Open/close dampers
- CRL damper system*

Configuration

HR:

Please select

Esc CANCEL ← SAVE VALUE ↕

Select heat recovery system:

- No HR available
- PHE
- RHE
- Coil loop without feed
- Coil loop + heat feed
- Coil loop + cold feed
- Coil loop + heat/cold feed

	Factory setting	Customer setting
CKL / CFL	PHE	
CRL	RHE	

Configuration

Control type:

Please select

Esc CANCEL ← SAVE VALUE ↕

Select temperature control:

- Vent. air control
- Room vent. air cascade
- Ext./vent. air cascade

Factory setting	Customer setting
Ext./vent. air cascade	

Configuration

Filter:

Please select

Esc CANCEL ← SAVE VALUE ↕

Select filters:

- No filter
- Outside air filter
- Ventilation air filter
- Extract air filter
- Outs./vent. air filter
- Vent./extr. air filter
- Outside/extr. air fltr
- Outs./vent/ex. air filter

Factory setting	Customer setting
Outside/extr. air fltr	

Configuration

Number FD:

Please select

Esc CANCEL ← SAVE VALUE ↕

Select fire dampers:

- No FD available
- 1 fire damper

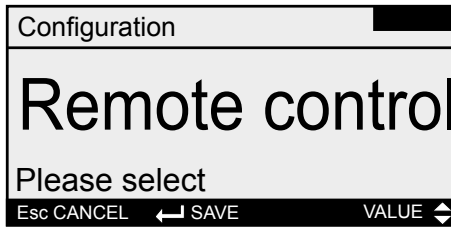
Factory setting	Customer setting
1 fire damper	

Configuration
Ext. demand:
Please select
Esc CANCEL ← SAVE VALUE ↕

Factory setting	Customer setting
Remote ON/OFF + stages	

Select external systems, demand:

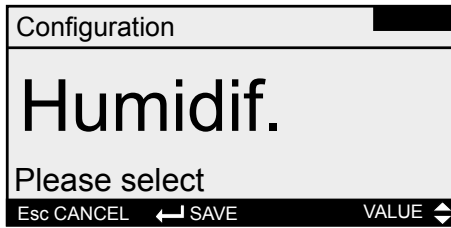
- None available
- Remote start/stop
- Remote step control
- Remote ON/OFF + stages



Factory setting	Customer setting
None available	

Select remote control:

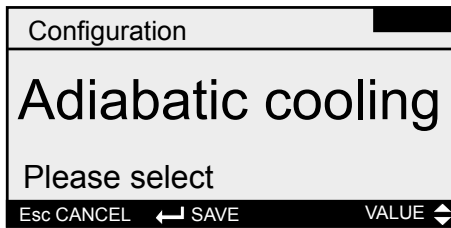
- None available
- Set value transducer
- Remote control



Factory setting	Customer setting
None available	

Select humidification:

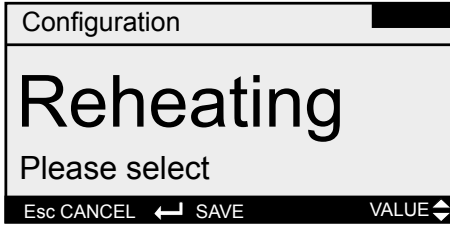
- Not available
- Isotherm
- Adiabatic



Factory setting	Customer setting
No adiabatic cooling	

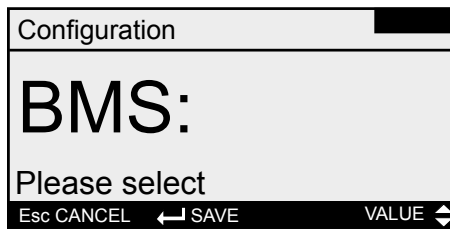
Select adiabatic cooling:

- No adiabatic cooling
- Freshwater contact humidifier
- Recirculating contact humidifier
- High pressure humidifier



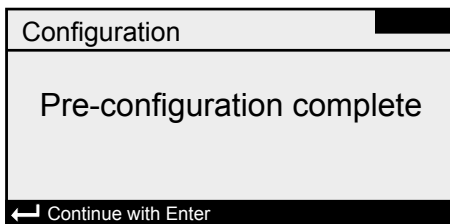
- Select reheating:**
- No reheating
 - DHW pump bank
 - EI heater bank stage 1
 - EI heater bank stage 2
 - EI heater bank stage 3
 - EI heater bank stage 4
 - EI heater bank stage 5
 - EI heater bank, variable

Factory setting	Customer setting
No reheating	



- Select building management system:**
- No BMS available
 - pCO Manager
 - BacNet
 - LON Works
 - Nadbus
 - Ethernet
 - KNX

Factory setting	Customer setting
No BMS available	



The selected configuration is then displayed in the overview
Changes cannot be made

Overview of the preset configuration

Configuration
Vent./ex. air syst. w/ Variable speed fan DHW pump bank No cooling bank Outs./dis. air dampers
← Continue with Enter

Continue with ←

Configuration
Heat recovery PHE Ext./vent. air cascade Outside/extr. air fltr 1 fire damper Remote start/stop
← Continue with Enter

Continue with ←

Configuration
Remote control No BMS available
← Continue with Enter

Continue with ←

Configuration
Restart system (mains OFF/ON)
← System restart

Configuration complete.
Switch off control unit and switch on again
The configuration is saved.

The following settings should be made on site for pressure control.

Step 2

Selecting the number of pressure sensors

Standard screen → **Esc** → Select heating contractor → Enter password 1234 → Select pressure/flow rate

Pressure/flow rate ctl	
Diff. pressure sensor	
Number	-2-
Type	0/10 V
Range	0/1000 Pa
Esc BACK ← SELECTION DISPLAY ↕	

Factory setting	Customer setting
Number 2	
Range 1000	

(If only one sensor is selected, the differential of the extract fan can be entered on the next screen: overpressure, 0 - -50 %; underpressure 0 - +50 %.)

Pressure/flow rate ctl	
Diff. extract fan	
	00.0 %
Esc BACK ← SELECTION DISPLAY ↕	

Factory setting	Customer setting
00.0 %	

The following settings for flow rate control have to be carried out on site:

Select fan type and k-factor

Pressure/flow rate ctl	
Supply fan	
Number	1
k-factor:	0
Fan type:	1
Esc BACK ← SELECTION DISPLAY ↕	

	Factory setting	Customer setting
Number	1	
k-factor	0	
Fan type	1	

Pressure/flow rate ctl	
Diff. extract fan	
Number:	1
k-factor:	0
Fan type:	1
Esc BACK ← SELECTION DISPLAY ↕	

	Factory setting	Customer setting
Number	1	
k-factor	0	
Fan type	1	

The selection formula for the corresponding fan type and the k-factor are indicated on the fan.

Select fan type 1 for formula $V = k \cdot \sqrt{\Delta p}$

Select fan type 2 for formula $V = k \cdot \sqrt{\frac{2}{1.2} \cdot \Delta p}$

Step 3

Enter set values for automatic mode

Standard screen → **Esc** → Select time functions → Set values → Select pressure control, supply air → Enter values → Select pressure control, extract air → Enter values

Select "Pressure control, ventilation air" → Enter value

Set values, time program	
Pressure control, ventilation air	
☰ 00000 Pa	☒ 00000 Pa
☐ 00000 Pa	– 00000 Pa
Esc BACK ← SELECTION DISPLAY ⇅	

	Factory setting	Customer setting
☰	750 Pa	
☒	500 Pa	
☐	250 Pa	
–	100 Pa	

or

	Factory setting	Customer setting
	1500 m³/h	
	1000 m³/h	
	750 m³/h	
	500 m³/h	

Select "Pressure control, extract air" → Enter value

Set values, time program	
Pressure control, extract air	
☰ 00000 Pa	☒ 00000 Pa
☐ 00000 Pa	– 00000 Pa
Esc BACK ← SELECTION DISPLAYS ⇅	

	Factory setting	Customer setting
☰	750 Pa	
☒	500 Pa	
☐	250 Pa	
–	100 Pa	

or

	Factory setting	Customer setting
	1500 m³/h	
	1000 m³/h	
	750 m³/h	
	500 m³/h	

Hold down **Esc** until you jump to the standard screen

Step 4

Set value for backup mode, heating/cooling
Setting night ventilation and peak ventilation

Standard screen → **Esc** → Select heating contractor → Enter password 1234 → Select backup mode →
Select heating pressure → Enter value

Backup mode	
Heating	
Pressure	0000 Pa
Esc BACK	← SELECTION DISPLAY ↕

Factory setting	Customer setting
250 Pa	

or

1000 m ³ /h	
------------------------	--

Select "Cooling pressure" → Enter value → **Esc**

Backup mode	
Cooling	
Pressure	0000 Pa
Esc BACK	← SELECTION DISPLAY ↕

Factory setting	Customer setting
250 Pa	

or

1000 m ³ /h	
------------------------	--

Select "Night ventilation" → Fan pressure → Enter value → **Esc**

Night ventilation	
Fan pressure	
	0000 Pa
Esc BACK	← SELECTION DISPLAY ↕

Factory setting	Customer setting
250 Pa	

or

1000 m ³ /h	
------------------------	--

Select "Peak ventilation" → Fan, ventilation air/extract air → Enter value

Peak ventilation	
Fan	
Ventilation air	0000 Pa
Extract air	0000 Pa
Esc BACK	← SELECTION DISPLAY ↕

Factory setting	Customer setting
250 Pa	

or

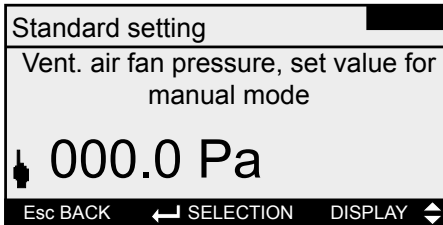
1000 m ³ /h	
------------------------	--

Hold down **Esc** until you jump to the standard screen

Step 5

Entering a set value for manual mode

Standard screen → **Esc** → Standard settings → Select vent. air fan pressure, manual mode → Set value

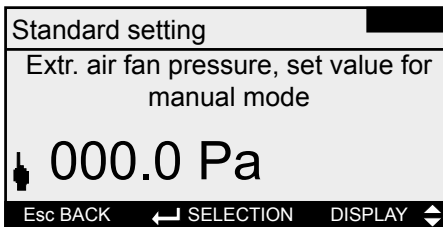


Factory setting	Customer setting
100 Pa	

or

1000 m ³ /h	
------------------------	--

Select "Extr. air fan pressure, manual mode" → Set value

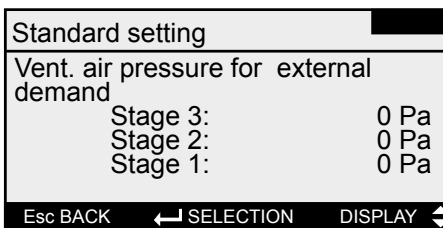


Factory setting	Customer setting
100 Pa	

or

1000 m ³ /h	
------------------------	--

Select "Vent. air pressure for external demand" → Set value

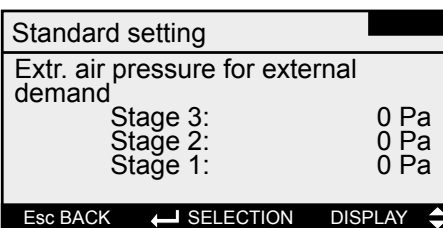


Factory setting	Customer setting
300 Pa	
200 Pa	
100 Pa	

or

2000 m ³ /h	
1500 m ³ /h	
1000 m ³ /h	

Select "Extr. air pressure for external demand" → Set value



Factory setting	Customer setting
300 Pa	
200 Pa	
100 Pa	

or

2000 m ³ /h	
1500 m ³ /h	
1000 m ³ /h	

Hold down **Esc** until you jump to the standard screen

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