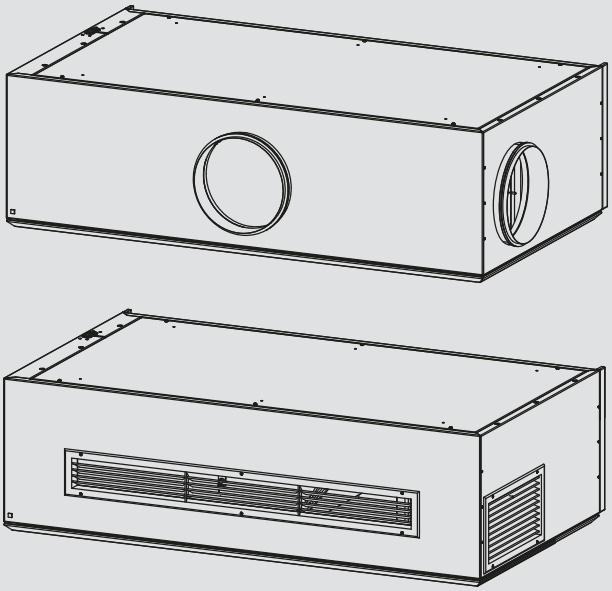
INBETRIEBNAHME
COMMISSIONING
MISE EN SERVICE
MESSA IN FUNZIONE
UVEDENÍ DO PROVOZU
UVEDENIE DO PREVÁDZKY
URUCHOMIENIE
ÜZEMBE HELYEZÉS
调试

Dezentrales Lüftungsgerät mit Wärmerückgewinnung | Decentralised ventilation unit with heat recovery | Appareil de ventilation décentralisée avec récupération de chaleur | Unità di ventilazione decentralizzata con recupero di calore | Decentrální ventilační zařízení s rekuperací tepla | Decentrálny vetrací prístroj s rekuperáciou tepla | Decentralne urządzenia wentylacyjne z odzyskiem ciepła | Hővisszanyeréssel működő decentralizált szellőzőberendezés | **带热回收装置的分散式新风装置**

- VRL-C 300 G Premium
- VRL-C 300 G Trend
- VRL-C 870 G Premium
- VRL-C 870 G Trend
- VRL-C 300 D Premium
- VRL-C 300 D Trend
- VRL-C 870 D Premium
- VRL-C 870 D Trend



STIEBEL ELTRON

COMMISSIONING

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1. General information

These instructions are intended for qualified contractors.

Other applicable documents

- 🕮 Operating instructions for the ventilation unit
- 🕮 Installation instructions for the ventilation unit

1.1 Symbols in this document

□□■ **These symbols show you the software menu level (in this example level 3).**

ENGLISH

2. Commissioning report

Completeness

Air ducts	Result
Layout according to design	☐
Installation as described	☐
Cleaning options	☐
Sound insulation available	☐
Outdoor and exhaust air apertures	
Weatherproofing available	☐
Bird guard available	☐
Cleaning options	☐
Supply and extract air grilles	
installed	☐
Correct setting	☐
Unit cover	
90° opening possible	☐
Replacement option for both filters	☐
Condensate drain	
Is the condensate hose laid according to the installation instructions?	☐
Push a hose through the exhaust air fan impeller to the condensate pan. Fill the condensate pan with approx. 1 l of water until the condensate pump is activated.	☐
Tightness	☐
Cleaning options	☐
ShutoffDampers	
To check that the shut-off dampers are moving freely, open the unit cover while the unit is running. Both shut-off dampers must close slowly.	☐
Contact switch on the unit cover	
Fault message when cover is open	☐
Fan	
Fans can be rotated easily	☐
Controls	
Functionality	☐
Programming unit accessible	☐
Filter	
Air filters correctly installed	
Documentation	
Operating and installation instructions available	☐

Options

► Tick those that apply.

Mounting system	Result
C profile rail system	☐
Z profile rail system	☐
Z profile rail system for cooling unit	☐
Stainless steel hood 320	☐
Stainless steel hood 410	☐
Version according to design	☐
Electrical reheating coil	
installed	☐
Sensors	
CO_2 sensor	☐
VOC sensor	☐
Motion sensor	☐
Humidity sensor	☐
Functionality	☐
Control extension	
BacNet web/Ethernet interface card	☐
LON interface card	☐
Modbus RS485 interface card	☐
Extension module	
installed	☐
Functionality? The "Min. vent." menu must be available.	☐
Hydraulic reheating coil	☐
Smoke alarm	☐
External fault indicator	☐
External off switch	☐

Functions

Operational for standard ventilation, as planned	Result
Result OK	☐
Switching settings possible, as planned	
Switch on the individual fan settings in manual mode.	☐
Programming unit	
Result OK	☐
Optional function components	
Result OK	☐

3. Logging settings

▶ Enter the values set during commissioning. If no changes are made or functions are not available for individual settings, you do not need to enter anything.

Air capacity

Stage		I	II	III	IV
Supply air	%				
Extract air	%				

Time base (division of the day into blocks of time)

☐		0	...	3	...	6	...	9	...	12	...	15	...	18	...	21	...	24					
☐	...	6	...	...	9	...	...	12	...	...	15	...	...	18	...	...	21	...					
☐	...	4	...	8	...	10	...	12	...	14	...	16	...	18	...	20	...	22					

Day programs (assigning fan settings ["stages"] to blocks of time)

P1

P2

P3

P4

Seven-day program

Day	Mo	Tu	We	Th	Fr	Sa	Su
-/P1/P2/P3/P4/P5							

Passwords

Key lock		active ☐	not active ☐
User level ("Display/Program/Password")		active ☐	not active ☐
ServiceLevel			
Master level (reserved for the service department)			

CO_2 sensor

Limit 1	ppm	
Limit 2	ppm	
MAX capacity 1:	%	
MAX capacity 2:	%	

Intermittent ventilation/impulse ventilation

Activate impulse?	Yes/No	
Cont. type:	NO/NC	
tImpuls:	min	
Air capacity:	%	

Minimum vent.

Activate function?	Yes/No	
tImpuls:	min	
Air capacity:	%	

Reheating

El. reheating	Yes/No	
TSUP-SET:	°C	
Hyst.:	°C	
tRHC:	min	

Motion sensor

Activate PIR?	Yes/No	
Runtime:	min	
Stage:	I - IV	

Bypass

Strategy A:		☐
TODA-MIN:	°C	
TETA-TSUP:	K	
iBypass:	V	
tBypass:	min	
Strategy B:		☐
TODA-MIN:	°C	
TETA-MIN:	°C	
Hyst.:	K	

ENGLISH

Logging settings

Filter

Mode	Actve/Passve	
FilterReset:	Yes/No	
Lifetime:	h	
Runtime:	h	
Remain. time:	h	

NightCooling

☐■ NightCooling			
☐☐■ Activate?		☑/☐	
☐☐☐■ Mo		☑/☐	
☐☐☐■ Tu		☑/☐	
☐☐☐■ We		☑/☐	
☐☐☐■ Th		☑/☐	
☐☐☐■ Fr		☑/☐	
☐☐☐■ Sa		☑/☐	
☐☐☐■ Su		☑/☐	
☐☐■ Air capacity:	%		

☐■ Service		
☐☐■ NightCooling		
☐☐☐■ Period:		
☐☐☐☐■ Start:	Month (1-12)	
☐☐☐☐■ End:	Month (1-12)	
☐☐☐☐■ Air capacity:	%	
☐☐☐■ Condition Day		
☐☐☐☐■ TODA-MIN:	°C	
☐☐☐☐■ TETA-MIN:	°C	
☐☐☐☐■ tMeasure:	min	
☐☐☐■ Condition Night		
☐☐☐☐■ Start:	h	
☐☐☐☐■ End:	h	
☐☐☐☐■ tCheck:	min	
☐☐☐☐■ tStop:	min	
☐☐☐☐■ TODA-MIN:	°C	
☐☐☐☐■ Hyst.:	K	

Note of confirmation

Date	Signature/stamp
	Executing company:
	Customer:

4. Commissioning

Note
If the control unit features the optional extension module, all functions assigned to the extension module can be set. It is irrelevant whether the corresponding sensors are connected to the extension module.

4.1 Switching the appliance on

Note
Do not press any buttons while the system is starting up.

When the power supply is switched on using the ON/OFF switch, the control unit starts up the system and the "Alarm" button flashes red.

4.2 Addressing the programming unit if the display remains blank

↵ ↑ ↓ ▶ Press the "Up", "Down" and "Enter" buttons simultaneously until "Display address setting" is displayed.

↵ ▶ Press the "Enter" button.

↑ ↓ ▶ Press the "Up" or "Down" button repeatedly until 21 is displayed.

↵ ▶ Confirm with the "Enter" button.

4.3 Setting the language

In the "Lang." menu item, you can change the system language.

■ Main menu
☐■ Lang.

4.4 Date/Time

■ Main menu
☐■ Time program
☐☐■ Date/Time
☐☐☐■ dd.mm.yy hh:mm

▶ Set the current time and date. The day, month, year, hour and minutes are set as 2-digit numbers.

4.5 Setting the air capacity

■ Main menu
☐■ Service
☐☐■ Fan
☐☐☐■ Air capacity

You can adjust the preset fan settings subject to local requirements. Observe applicable standards and guidelines when configuring the fan settings.

Set the air capacity as a percentage of the maximum air capacity of the fan for each setting separately for supply air fans and extract air fans. We recommend setting the same value for supply and extract air. If air ducts are connected and have different pressure drops, you can compensate for the pressure drops through different air capacities of supply air and extract air fans.

	Meaning of the fan settings ("stages")
I	This setting is for humidity protection. Minimum but consistent air flow rates prevent damage to the fabric of the building. A low air flow rate is recommended even when the building is non-operational.
II	This setting is for minimum ventilation. If the room/building is in regular use, this is the minimum level that must be used. In combination with sensors, this setting provides a good basic level of ventilation during the period of use.
III	This setting is for standard ventilation. If the unit is not controlled automatically via sensors, it must run at this level during the period of use.
IV	This setting is for intensive ventilation, during extended periods of use or for airing a room quickly, e.g. in break times.

4.6 Setting the filter lifetime

▶ You can change the preset time after which the unit reports that a filter change is required.

■ Main menu
☐■ Service
☐☐■ Filter
☐☐☐■ Filter runtime
☐☐☐☐■ Lifetime:

There are upper and lower limits for the lifetime, which can be changed at master level in the menu.

4.7 Setting time programs

Time base

For the time programs, each 24-hour day is divided into blocks of time. In the "Timing" menu, you can choose between three timings.

■ Main menu
☐■ Time program
☐☐■ Time base
☐☐☐■ Timing

▶ Select the time base.

☐		0	…	3	…	6	…	9	…	12	…	15	…	18	…	21	…	24						
☐	…	6	…	…	9	…	…	12	…	…	15	…	…	18	…	…	21	…						
☐	…	4	…	8	…	10	…	12	…	14	…	16	…	18	…	20	…	22						

Assignment of fan settings ("stages")

■ Main menu
☐■ Time program
☐☐■ DayProg.

▶ Select a day program.
▶ Select one of the 5 fan settings for each block of time.
▶ Assign the fan settings for the other day programs as well.

ENGLISH

P1

P2

P3

P4

Assignment of the day programs to the days of the week

■ Main menu
☐■ Time program
☐☐■ WeekProg.

▶ Select one of the day programs for each day of the week. Options: P1 - P5

Day	Mo	Tu	We	Th	Fr	Sa	Su
Day program							

4.8 Intermittent ventilation/impulse ventilation

■ Main menu
☐■ Service
☐☐■ Impulse vent.

Irrespective of the automatic settings and sensor measurements, you can set the unit to an increased air capacity for a defined length of time.

To use this function, it must be activated and the unit must be in "Auto" mode.

☐☐☐■ **Activate impulse?**

▶ Activate or deactivate the function. The function is not yet started.

☐☐☐■ **Cont. type:**

	Description
NO	N/O contact
NC	N/C contact

▶ Select the contact type depending on the installed button.

☐☐☐■ **tImpuls:**

▶ Set how long the unit runs in this function after pressing the button.

☐☐☐■ **Air capacity:**

▶ Set the air capacity at which the unit runs in this function.

4.9 Minimum vent.

■ Main menu
☐■ Service
☐☐■ Min. vent.

This function reduces the air capacity to the specified level for the set period of time. This function is only available if an extension module is installed and the button is connected. The button must be designed as an N/O contact.

☐☐☐■ **Activate function?**

▶ Activate or deactivate the function. The function is not yet started.

☐☐☐■ **tImpuls:**

▶ Set how long the unit runs in this function after pressing the button.

☐☐☐■ **Air capacity:**

▶ Set the air capacity at which the unit runs in this function.

4.10 VOC/CO_2 sensor

■ Main menu
☐■ Service
☐☐■ VOC/CO2
☐☐☐■ VOC/CO2 sensor

This function works automatically according to the set parameters. The unit controls the air flow rate subject to the indoor air quality.

The higher the VOC/CO_2 concentration in the air, the higher the air flow rate. To minimise noise pollution, you can set two limits for the VOC/CO_2 concentration.

VOC/CO_2 concentration in the room [ppm]	
< 1000	Targeted
> 2000	To be avoided

The specified values apply to VOC if measurement is carried out using CO2 equivalent.

The unit attempts to prevent a rise in VOC/CO_2 concentration from the start. The unit increases the air capacity up to the value set in parameter "MAX capacity 1:". If the VOC/CO_2 concentration exceeds the first limit, the unit regulates the air capacity until the value set in parameter "MAX capacity 2:" is reached.

Observe the recommendations applicable to the relevant purpose.

☐☐☐☐■ **Activate VOC/CO2?**

▶ Select between the basic activation and deactivation of the sensor.

□□□□■ **Limit 1:**

▶ Set the preferred VOC/CO_2 concentration. When using a CO_2 sensor, set a value at least 400 ppm above the outdoor air concentration.

		Urban	Rural (without agricultural use)
Outdoor air concentration	ppm	450	350

□□□□■ **Limit 2:**

▶ Set the maximum preferred VOC/CO_2 concentration. When using a CO_2 sensor, set a value at least 400 ppm above limit 1.

□□□□■ **Hyst. 2:**

▶ Set the permissible deviation in relation to limit 2.

□□□□■ **ACT.val.:**

The current VOC/CO_2 concentration in the room is displayed.

□□□□■ **MAX capacity 1:**

As long as limit 1 is not reached, the unit limits the air capacity to the value set here.

□□□□■ **MAX capacity 2:**

▶ Set the maximum air capacity for operation after limit 1 has been exceeded.

4.11 Bypass

For room temperature regulation, under corresponding conditions, the bypass is incorporated in the control strategy.

To switch off heat recovery as far as possible, the bypass damper opens. This enables the unit, for example, to transfer cool air into the room during the night without heating the supply air with the considerably warmer extract air. Two optional strategies are available.

■ Main menu
□■ Service
□□■ Bypass

□□□■ **Strategy A:**

The bypass damper opens with a time delay. This prevents sudden extreme temperature changes. However, control characteristics become slow. We recommend dispensing with strategy A. Select strategy B.

□□□□■ **TODA-MIN**

▶ Set the minimum outdoor air temperature at which the bypass damper can open.

□□□□■ **TETA-TSUP:**

▶ Set the extract air hysteresis in relation to the supply air. Set the minimum required temperature differential between the extract air and the supply air.

□□□□■ **iBypass:**

When the control unit opens or closes the bypass damper, the adjustment per cycle corresponds to the value of parameter "iBypass:".

□□□□■ **tBypass:**

▶ Set how long the bypass damper remains in its position between two adjustments.

□□□■ **Strategy B:**

When the conditions are met, maximum adjustment of the bypass is carried out. This lowers the system inertia. This could lead to thermal losses.

□□□□■ **TODA-MIN:**

▶ Set the minimum outdoor air temperature at which the bypass damper can open.

□□□□■ **TETA-MIN:**

▶ Set the minimum permissible extract air temperature at which the bypass damper can open.

□□□□■ **Hyst.:**

▶ Set the minimum required temperature differential between the extract air and the outdoor air.

4.12 NightCooling

■ Main menu
□■ NightCooling

In the "NightCooling" menu, you can activate the "night cooling" function and select individual days of the week on which you wish the unit to cool in the morning.

Note
We recommend that you activate night cooling and select every day of the week.

During the day, the inside and outside temperatures are checked. If, during the day, all conditions have been met for night cooling, the cooling potential is checked the following night. If the cooling potential is sufficiently high, the unit opens the bypass damper. If a temperature condition is no longer met or the stored period has elapsed, the bypass damper closes or the unit switches off.

■ Main menu
□■ Service
□□■ NightCooling

ENGLISH

□□■ **Period:**

□□□□■ **Start:**

On the first day of the month selected here, night cooling test runs are generally enabled.

□□□□■ **End:**

Night cooling is enabled up to the last day of the month selected here.

□□□□■ **Air capacity:**

▶ Set the air capacity used in active night cooling mode.

□□□■ **Condition Day**

□□□□■ **TODA-MIN:**

▶ Set the minimum outdoor air temperature at which the bypass damper can open.

□□□□■ **TETA-MIN:**

▶ Set the minimum permissible extract air temperature at which the bypass damper can open.

□□□□■ **tMeasure:**

▶ Set how long the minimum temperatures for outdoor and extract air must be exceeded in a day.

□□□■ **Condition Night**

□□□□■ **Start:**

▶ Set the earliest time for the start of night cooling.

□□□□■ **End:**

▶ Set the latest time for the end of night cooling.

□□□□■ **tCheck:**

▶ Set how long cooling conditions are checked during the night.

□□□□■ **tStop:**

▶ Set how long night cooling is stopped if a condition is no longer met.

The unit switches ventilation off or runs with a closed bypass damper in "Auto" operating mode according to customer settings.

□□□□■ **TODA-MIN:**

▶ Set the minimum outdoor air temperature at which the bypass damper can open.

□□□□■ **Hyst.:**

▶ Set the minimum difference by which the outdoor air must be cooler than the extract air. If further conditions are met, night cooling is activated.

4.13 Heating

The unit supports various options for heating the outdoor air and for temperate heating of the supply air. Heating options are required for protection against frost damage. For a higher level of comfort in the room, the supply air can be heated to the correct temperature. You must enable the heating types used in the menu. Electric preheating cannot generally be deactivated.

■ Main menu
□■ Service
□□■ Heating
□□□■ Heater enable
□□□□■ Hydr.preheating
□□□□■ El. reheating
□□□□■ Hydr. reheating
□□□■ El. preheating
□□□■ Hydr.preheating
□□□■ El. reheating
□□□■ Hydr. reheating
□□□■ Pre-flush hydr.preheating
□□□■ SwitchFreq.

□□□■ **El. preheating**

Electric preheating protects the unit against frost damage. It generally cannot be deactivated.

Material losses
Lowering the limit temperatures can lead to mechanical damage to the heat exchanger. An extreme increase in the limit temperature leads to higher energy consumption.

□□□□■ **TEHA-START:**

If the exhaust air temperature falls below this limit, the frost protection coil switches on.

□□□□■ **TEHA-STOP:**

If the exhaust air temperature rises above this limit, the frost protection coil switches off.

□□□■ **Hydr.preheating**

▶ Set the delay before hydraulic preheating is switched on after electric preheating.

□□□■ **El. reheating**

Electric reheating heats the supply air and increases the comfort level.

□□□□■ **TSUP-SET:**

If the supply air temperature falls below the value selected here, electric reheating switches on.

□□□□■ Hyst.:

This parameter sets an upper limit for the supply air temperature. If the supply air temperature rises above the value selected here, the unit switches off the electric reheating coil.

□□□□■ tRHC:

To prevent continuous cycling, set the minimum operating time for the heating coil here.

□□□■ Hydr. reheating

Hydraulic reheating is used for convenient heating of the supply air. With a hydraulic heating coil, general temperate heating of the indoor air is also possible. With a hydraulic heating coil, less energy is consumed than with an electrical system.

□□□□■ TSUP-SET:

The system regulates the supply air temperature to the selected value within the possible limits.

□□□□■ TSUPMAX:

▶ Set the maximum supply air temperature.

□□□□■ TSUPMAX-HYS:

The hysteresis defined here is added to "TSUPMAX:" when checking whether the maximum supply air temperature is exceeded. The hysteresis defined here is subtracted from "TSUPMAX:" when checking whether the supply air temperature has fallen back below the maximum value.

□□□□■ tSUP monitoring:

This setting defines for how long an excessive supply air temperature should be ignored. If, during operation with a hydraulic reheating coil, extreme temperature fluctuations occur, carefully increase this parameter.

□□□□■ PI time:

Time constant of the PI controller for actuating the reheating coil control valve

□□□□■ PI band:

Bandwidth of the PI controller for actuating the reheating coil control valve

□□□□■ Valve runtime:

Runtime of the reheating coil control valve

□□□□■ Valve position:

Current actuation of the reheating coil control valve

□□□■ Pre-flush hydr.preheating

This function is not available for this unit.

□□□■ SwitchFreq.

You can divide the units into groups. The preheating coils of only one group are enabled at any time. The groups are enabled one after another.

This enables the entire connected load of the units operated on the pLAN network to be considerably reduced. If you divide the units evenly among the 4 groups, the maximum connected load is limited by the preheating coil to 1/4. The connected load of each individual unit and the required individual fuse protection remain the same.

To use this function, the units must be linked via the pLAN network.

□□□□■ El. preheating:

After the selected time, the preheating coils of the current unit group are switched off and those of the next group are switched on. If a group has no units assigned, this group is skipped.

□□□□■ Group:

This shows the units divided into the 4 groups.

4.14 Motion sensor

The motion sensor (PIR sensor) enables the unit to be controlled automatically. If there are people within range of the motion sensor, the unit switches to the stored setting.

■ Main menu
□■ Service
□□■ PIR

□□□□■ Activate PIR?

▶ Select between the basic activation and deactivation of the sensor.

□□□□■ Runtime:

▶ Choose for how long the unit should continue to run at the stored setting after the last motion detected in the room.

□□□□■ Stage:

▶ Configure the level at which the unit works during the period of use.

If stage 0 is set, the unit switches the fans off. The unit is ready for operation.

□□□□■ Cont. type:

	Description
NO	N/O contact
NC	N/C contact

▶ Select the contact type depending on the installed button.

□□□□■ PIR time control?

No	The sensor works continuously.
Yes	The sensor can be activated in a defined time window. Outside the time program, the sensor is not taken into account.

□□□□■ PIR time program

You can create an individual time window with start and end for each day. Within the specified time, the sensor is active. The start time must be before the end.

5. Other setting options

■ Main menu

■ Main menu		
□■ Status	To display actual statuses	
□■ Time program	To set the time, date and seven-day program	See chapter "Commissioning".
□■ Display	To adjust the display	See operating instructions.
□■ NightCooling	To enable the "night cooling" function	See chapter "Commissioning".
□■ Interm.vent	To enable and adjust the "intermittent ventilation" function	See chapter "Commissioning".
□■ Min. vent.	To switch the "minimum ventilation" function on and off	See chapter "Commissioning".
□■ FilterReset	To reset the filter runtime	See operating instructions.
□■ Service	Password-protected menu for service technicians only	
□■ Master	This menu is for the service department only and is password protected.	
□■ Info	Information menu	
□■ Lang.	To select the language for the display	

□■ Service

Settings in the "Service" menu are reserved for qualified contractors. Password for qualified contractors: 0001

□□■ Sensor

□□□■ SensorCalibr.

□□□□■ Outdoor(ODA):
□□□□■ Supp.(SUP):
□□□□■ Extr.(ETA):
□□□□■ Exhaust(EHA):

Sensor calibration enables sensor readings to be adjusted. You can calibrate each sensor individually.

□□□■ SensorCalibr.exp

The menu is only displayed if the unit includes the optionally available extension module and the function "Hydr.preheating" or "Hydr. reheating" is enabled.

□□□□■ Supply air (*SUP*)
□□□□■ Hydr.prehtr (Return):

□□■ Fan

■ Main menu
□■ Service
□□■ Fan
□□■ Air capacity

□□□□■ MIN catalogue:

This parameter is reserved for our service department.

□□■ Filter

□□□■ Filter monitoring
□□□□■ Mode
□□□■ Filter runtime
□□□□■ FilterReset:
□□□□■ Lifetime:
□□□□■ Runtime:
□□□□■ Remain. time:

□□□□■ Mode

This parameter has no function for this appliance. The unit issues a time controlled filter change prompt.

□□□□■ Lifetime:

The filter lifetime is the value determining time-based filter replacement; after expiry of this period, a prompt to replace the filters is displayed.

□□■ VOC/CO2

□□□■ VOC/CO2 sensor
□□□□■ VOC/CO2 time control?
□□□■ VOC/CO2 time program

□□□□■ VOC/CO2 time control?

No	The sensor works continuously.
Yes	The sensor can be activated in a defined time window. Outside the time program, the sensor is not taken into account.

□□□■ VOC/CO2 time program

You can create an individual time window with start and end for each day. Within the specified time, the sensor is active. The start time must be before the end.

Other setting options

□□■ PIR

See chapter "Commissioning".

□□■ Start UP

In the event of a power failure, the system starts automatically as soon as the power supply is restored. The operating mode setting determines the mode in which the system will then continue to operate. We recommend setting it to "Auto".

□□□■	Start cond.
□□□□■	Operating mode

□□■ Smoke alarm

This menu item can only be selected if an extension module is connected. You can only use this function if a smoke alarm is connected to the extension module.

In the event of a fault, the unit can be operated in two different functions.

This function can be built into existing safety concepts as a backup. The unit itself does not constitute a standard-compliant smoke extraction or fire safety system.

□□□■ Function:

Option	Description
Vent. OFF	The fans are switched off and the shut-off dampers are closed.
Smoke-Extr.	The supply air fan is switched off and the shut-off damper is closed. The extract air fan is switched to maximum air flow rate.

□□□■ Cont. type:

	Description
NO	N/O contact
NC	N/C contact

▶ Select the contact type.

□□■ Heating

See chapter "Commissioning".

□□■ No. of units

In the "Unit enable" menu item, you can determine which units are on the pLAN network. Any units not selected here but available on the pLAN network are operated as individual units.

If enabled units are not connected on the pLAN network, they are displayed as missing on the master unit.

□□□■	Unit enable
□□□□■	G01 G02 G03 G04 G05
□□□□■	G06 G07 G08 G09 G10
□□□□■	G11 G12 G13 G14 G15
□□□□■	G16 G17 G18 G19 G20

Use the "Up" or "Down" button to select a unit and deselect it again.

□□■ Bypass

See chapter "Commissioning".

□□■ Impulse vent.

See chapter "Commissioning".

□□■ Min. vent.

See chapter "Commissioning".

□□■ Ext. off

The "Ext. off" function enables the unit to be switched off via a switch contact irrespective of the selected automatic programs and functions.

□□□■ Activate ext. off?

▶ Activate or deactivate the function.

□□□■ Cont. type:

	Description
NO	N/O contact
NC	N/C contact

▶ Select the contact type.

□□■ Ext. 0-10V

This function is not available for this unit.

□□■ NightCooling

See chapter "Commissioning".

□□■ Act. cooling

This menu item is only relevant for units with a cooling unit. See instructions for the cooling unit.

□□■ Board address

□□■ Unit address	
□□□■ Change address:	
□□□■ Current address:	Display value
□□■ 20 units...ONLINE	If 20 addresses have already been assigned, this menu item is displayed instead of "Unit address".

Determine the address of the unit here. Standard is 01 and should not be changed even if the unit is operated on a pLAN network without any other units. If you operate the unit on the pLAN network with other units, all units on the network must have different addresses.

If an address conflict occurs through the assignment of the same numbers, disconnect the unit from the pLAN network. Change the address on the unit.

□□■ Password

Here, you can set the ServiceLevel password.

□□■ BMS log

□□□■ BMS type:		BacNet / Pco Web / LON / ModBus RTU
□□□■ BaudRate:	baud	1200 / 2400 / 4800 / 9600 / 19200
□□□■ StopBit		This parameter only appears for BMS type "ModBus RTU".
□□□■ Parity		This parameter only appears for BMS type "ModBus RTU".
□□□■ Address:		1 - 20

□□■ pCOe

▶ Set the option "RS485".

□□■ Reset

■ Main menu
□■ Service
□□■ Reset
□□□■ Perform reset:
□□□■ Default set:
□□□■ Date:

The "Default set:" is the unit version stored at master level. This specifies certain standard settings and defines which functions are enabled.

The date indicates when the last reset was carried out.

The reset does not reset all values that can be changed by the user.

□□■ hxModule

Only change parameters in this menu after consultation with the customer service department.

□■ Master

This menu is for the service department only and is password protected.

□■ Info

In the "Info" menu, you will find information about the software and the boot and BIOS versions.

□■ Lang.

In the "Lang." menu, you can select the language.

6. Parameter list

	Unit	Options	min.	Max.	Standard value	System value
■ Main menu						
□■ Time program						
□□■ Date/Time						
□□□■ dd.mm.yy hh:mm						
□□■ Time base						
□□□■ Timing		Time base 1 / Time base 2 / Time base 3			Time base 2	
□□■ DayProg.						
□□□■ Day program P1		0/1/2/3/4			6:00-18:00 h: Stage 1	
□□□■ Day program P2		0/1/2/3/4			15:00 h: Stage 1	
□□□■ Day program P3		0/1/2/3/4			0:00-24:00 h: Stage 1	
□□□■ Day program P4		0/1/2/3/4			0:00-24:00 h: Stage 1	
□□■ WeekProg.						
□□□■ Program overview						
□□□□■ Mo		-/P1/P2/P3/P4/P5			P1	
□□□□■ Tu		-/P1/P2/P3/P4/P5			P1	
□□□□■ We		-/P1/P2/P3/P4/P5			P1	
□□□□■ Th		-/P1/P2/P3/P4/P5			P1	
□□□□■ Fr		-/P1/P2/P3/P4/P5			P1	
□□□□■ Sa		-/P1/P2/P3/P4/P5			P2	
□□□□■ Su		-/P1/P2/P3/P4/P5			P2	
□■ Display						
□□■ Lighting						
□□□■ Manual:		On/off			On	
□□□■ Auto:	s		0	3600	360	
□□□■ DefaultDisp:	s		20	3600	360	
□□■ Program						
□□□■ Actve:		Yes/No			No	
□□□■ Password:			0000	9999	0000	
□□□■ tProt.:	min		0	99	5	
□□■ Key lock						
□□□■ Actve:		Yes/No			No	
□□□■ Password:			0000	9999	999	

Parameter list

	Unit	Options	min.	Max.	Standard value	System value
☐☐■ Welcome text						
☐☐☐■ Activate:		Yes/No			No	
☐☐☐■ Time:	s		20	999	20	
☐■ NightCooling						
☐☐■ Activate?		☑/☐			☑	
☐☐☐■ Mo		☑/☐			☑	
☐☐☐■ Tu		☑/☐			☑	
☐☐☐■ We		☑/☐			☑	
☐☐☐■ Th		☑/☐			☑	
☐☐☐■ Fr		☑/☐			☑	
☐☐☐■ Sa		☑/☐			☑	
☐☐☐■ Su		☑/☐			☑	
☐☐■ Air capacity:	%		Stage I	100	70	
☐■ Interm.vent						
☐☐☐■ Activate impulse?		On/off			On	
☐☐☐■ tImpuls:	min		0	99	15	
☐☐☐■ Air capacity:	%		Stage I	100	100	
☐■ Min. vent.						
☐☐■ Activate function?		On/off			On	
☐☐■ tImpuls:	min		0	999	60	
☐☐■ Air capacity:	%		Stage I	100		
☐■ FilterReset						
☐☐■ FilterReset:		Yes/No			No	
☐☐■ Runtime:	h					Display value
☐☐■ Remain. time:	h					Display value
☐■ Service						
☐☐■ ServiceLevel password			0000	9999	1000	
☐☐■ Sensor						
☐☐☐■ SensorCalibr.						
☐☐☐☐■ Outdoor(ODA):	K		-9.9	9.9	0.0	
☐☐☐☐■ Supp.(SUP):	K		-9.9	9.9	0.0	
☐☐☐☐■ Extr.(ETA):	K		-9.9	9.9	0.0	
☐☐☐☐■ Exhaust(EHA):	K		-9.9	9.9	0.0	
☐☐☐■ SensorCalibr.exp						
☐☐☐☐■ Supply air (*SUP*)	K		-9.9	9.9	0.0	
☐☐☐☐■ Hydr.prehtr (Return):	K		-9.9	9.9	0.0	
☐☐■ Fan						
☐☐☐■ Air capacity						
☐☐☐☐■ Stage I:						
☐☐☐☐☐■ ZUL	%		0	100	20 (VRL-C 300), 22 (VRL-C 870)	
☐☐☐☐☐■ ETA	%		0	100	20 (VRL-C 300, 22 (VRL-C 870)	
☐☐☐☐■ Stage II:						
☐☐☐☐☐■ ZUL	%		0	100	40	
☐☐☐☐☐■ ETA	%		0	100	40	
☐☐☐☐■ Stage III:						
☐☐☐☐☐■ ZUL	%		0	100	66 (VRL-C 300), 68 (VRL-C 870)	
☐☐☐☐☐■ ETA	%		0	100	66 (VRL-C 300), 68 (VRL-C 870)	
☐☐☐☐■ Stage IV:						
☐☐☐☐☐■ ZUL	%		0	100	100	
☐☐☐☐☐■ ETA	%		0	100	100	
☐☐☐■ Air capacity						
☐☐☐☐■ MIN catalogue:	V		2	10	2	
☐☐■ Filter						
☐☐☐■ Filter monitoring						
☐☐☐☐■ Mode		Actve/Passve			Passve	
☐☐☐■ Filter runtime						
☐☐☐☐■ FilterReset:		Yes/No			No	
☐☐☐☐■ Lifetime:	h				4320	
☐☐☐☐■ Runtime:	h					Display value
☐☐☐☐■ Remain. time:	h					Display value

Parameter list

	Unit	Options	min.	Max.	Standard value	System value
□□■ VOC/CO2						
□□□■ VOC/CO2 sensor						
□□□□■ Activate VOC/CO2?		Yes/No			Yes	
□□□□■ Limit 1:	ppm				700	
□□□□■ Limit 2:	ppm				1100	
□□□□■ Hyst. 2:	ppm		0	500	300	
□□□□■ ACT.val.:	ppm					Display value
□□□□■ MAX capacity 1:	%		Stage I	100	55	
□□□□■ MAX capacity 2:	%				66 (VRL-C 300), 68 (VRL-C 870)	
□□□□■ VOC/CO2 time control?		Yes/No			No	
□□□■ VOC/CO2 time program						
□□□□■ Mo:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□□□■ Tu:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□□□■ We:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□□□■ Th:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□□■ VOC/CO2 time program						
□□□□■ Fr:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□□□■ Sa:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□□□■ So:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□■ PIR						
□□□■ PIR						
□□□□■ Activate PIR?		Yes/No			Yes	
□□□■ PIR						
□□□□■ Runtime:	min		0	99	30	
□□□□■ Stage:		0 - IV			I	
□□□□■ Cont. type:		NO/NC			NO	
□□□■ PIR						
□□□□■ PIR time control?		Yes/No			No	
□□□■ PIR time program						
□□□□■ Mo:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□□□■ Tu:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□□□■ We:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□□□■ Th:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□□■ PIR time program						
□□□□■ Fr:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□□□■ Sa:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	

Parameter list

	Unit	Options	min.	Max.	Standard value	System value
□□□□■ So:						
□□□□□■ Start			0:00	24:00	07:00	
□□□□□■ End			0:00	24:00	18:00	
□□■ Start UP						
□□□■ Start cond.						
□□□□■ Operating mode		Off/Manual/Auto			Auto	
□□■ Smoke alarm						
□□□■ Function:		Vent. OFF/SmokeExtr.			Vent. OFF	
□□□■ Cont. type:		NO/NC			NO	
□□■ Heating						
□□□■ Heater enable						
□□□□■ Hydr.preheating		Yes/No			No	
□□□□■ El. reheating		Yes/No			Yes (units with electric reheating coil); No (units without electric reheating coil)	
□□□□■ Hydr. reheating		Yes/No			No	
□□□■ El. preheating						
□□□□■ TEHA-START:	°C		0	TEHA-STOP:	3	
□□□□■ TEHA-STOP:	°C		TEHA-START:	15	6	
□□□■ Hydr.preheating			0	999	180	
□□□■ El. reheating						
□□□□■ TSUP-SET:	°C		14	30	18	
□□□□■ Hyst.:	°C		TSUP-SET:	45	25	
□□□□■ tRHC:	min		0	99	0	
□□□■ Hydr. reheating						
□□□□■ TSUP-SET:	°C		14	30	18	
□□□□■ TSUPMAX:	°C		40	70	60	
□□□□■ TSUPMAX-HYS:	K		5	10	10	
□□□□■ tSUP monitoring:	min		1	15	10	
□□□□■ Operation at fault:		System OFF / Vent. ON			System OFF	
□□□□■ PI time:	s		60	999	60	
□□□□■ PI band:	s		1	999	200	
□□□□■ Valve runtime:	s		60	999	120	
□□□□■ Valve position:	%					Display value
□□□■ Pre-flush hydr.preheating						
□□□□■ Outdoor(ODA):	°C		-3.0	9.9	6	
□□□□■ tPreFlush:	s		0	300	180	
□□□■ SwitchFreq.						
□□□□■ El. preheating	s		0	9999	300	
□□□□■ Group						Display value
□□■ No. of units						
□□□■ Unit enable						
□□□□■ G01 G02 G03 G04 G05					G1 selected	
□□□□■ G06 G07 G08 G09 G10					G2 - G20 not selected	
□□□□■ G11 G12 G13 G14 G15						
□□□□■ G16 G17 G18 G19 G20						
□□■ Bypass						
□□□■ Strategy		A / B			B	
□□□■ Strategy A:						
□□□□■ TODA-MIN:	°C		0	20	16	
□□□□■ TETA-TSUP:	K		0	10	1	
□□□□■ iBypass:	V		0	10	3	
□□□□■ tBypass:	min		0	99	1	
□□□■ Strategy B:						
□□□□■ TODA-MIN:	°C		0	20	16	
□□□□■ TETA-MIN:	°C		16	30	23	
□□□□■ Hyst.:	K		2	10	2	
□□■ Impulse vent.						
□□□■ Activate impulse?		Yes/No			Yes	
□□□■ Cont. type:		NO/NC			NO	
□□□■ tImpuls:	min		0	99	15	
□□□■ Air capacity:	%		Stage I	100	100	

Parameter list

	Unit	Options	min.	Max.	Standard value	System value
□□■ Min. vent.						
□□□■ Activate function?		On/off			On	
□□□■ tImpuls:	min		0	999	60	
□□□■ Air capacity:	%		Stage I	100	30	
□□■ Ext. off						
□□□■ Activate ext. off?		Yes/No			Yes	
□□□■ Cont. type:		NO/NC			NO	
□□■ NightCooling						
□□□■ Period:						
□□□□■ Start:	Month		1	7	4	
□□□□■ End:	Month		8	12	10	
□□□■ Air capacity:	%		Stage I	100	70	
□□□■ Condition Day						
□□□□■ TODA-MIN:	°C		20	50	20	
□□□□■ TETA-MIN:	°C		16	40	16	
□□□□■ tMeasure:	min		5	240	5	
□□□■ Condition Night						
□□□□■ Start:	h		1	3	1	
□□□□■ End:	h		4	7	6	
□□□□■ tCheck:	min		15	30	15	
□□□□■ tStop:	min		15	60	15	
□□□□■ TODA-MIN:	°C		6	16	6	
□□□□■ Hyst.:	K		3	9	3	
□□■ Act. cooling						
□□□■ CU enable						
□□□□■ Activate function?		Yes/No			Function not available (VRL-C 300), No (VRL-C 870 Trend, VRL-C 870 Premium)	
□□□■ CU op. times						
□□□□■ Enable month						
□□□□□■ from			01	12	4	
□□□□□■ to:			01	12	10	
□□□□■ Day enabled						
□□□□□■ from			0:00	24:00	00:01	
□□□□□■ to:			0:00	24:00	23:59	
□□□■ CU temperatures						
□□□□■ Set rm temp.:	°C		20	30	23	
□□□□■ Set *rm t modulating contrl?		Yes/No			No	
□□□■ CU FaultMode						
□□□□■ Operation at fault:		System OFF / Vent. ON			Vent. ON	
□□□■ CU ControlParam 1						
□□□□■ TSUP-limit:	°C		10	20	15	
□□□□■ TSUP-hyst.:	K		1	5	2	
□□□□■ TEHA-limit:	°C		40	55	50	
□□□□■ TEHA-hyst.:	K		1	9	5	
□□□■ CU ControlParam 2						
□□□□■ Modulation MIN:	%		50	100	75	
□□□□■ Modulation MAX:	%		50	100	90	
□□□■ CU ControlParam 3						
□□□□■ Set temp hystrs.:	K		1	5	2	
□□□□■ tBypass runtime:	s		30	180	30	
□□□□■ tBypass PI controller:	s		30	300	60	
□□□□■ Bypass mod. Min:	%		35	100	35	
□□□□■ Bypass mod. Max:	%		35	100	100	
□□□■ CU status						
□□□□■ SUP:	°C					Display value
□□□□■ ETA:	°C					Display value
□□□□■ ODA:	°C					Display value
□□□□■ EHA:	°C					Display value
□■ Board address						
□□■ Unit address						
□□□■ Change address:			1	20	1	
□□□■ Current address:						Display value
□□■ 20 units...ONLINE						Display value

Parameter list

	Unit	Options	min.	Max.	Standard value	System value
☐■ Password						
☐☐■ Service			0000	9999	0001	
☐■ BMS log						
☐☐☐■ BMS type:		BacNet / Pco Web / LON / ModBus RTU			BacNet	
☐☐☐■ BaudRate:	baud	1200 / 2400 / 4800 / 9600 / 19200			19200	
☐☐☐■ StopBit		1 / 2			2	
☐☐☐■ Parity		non / even / odd			non	
☐☐☐■ Address:			1	20	1	
☐■ pCOe						
☐☐■ pCOeType		RS485 / tLan			tLan	
☐■ Reset						
☐☐☐■ Perform reset:		Yes/No			No	
☐☐☐■ Default set:						Display value
☐☐☐■ Date:						Display value
☐■ hxModule						
☐☐■ hxmodule						
☐☐☐■ ETA-RELF:	%					Display value
☐☐☐■ ETA temp:	°C					Display value
☐☐☐■ EHA temp:	°C					Display value
☐☐☐■ TP:	°C					Display value
☐☐☐■ Alarm delay	s		5	120	60	
☐☐☐■ TPKR:		> Dew pt / >=Dew pt / < Dew pt				Display value
☐☐☐■ FGR:		FrostLevel 1 / FrostLevel 2 / FrostLevel 3 / FrostLevel 4				Display value
☐☐☐■ ERROR:						Display value
☐☐☐■ SD1:	mbar					Display value
☐☐☐■ PD1:	mbar					Display value
☐☐☐■ Alarm delay:	min		5	120	30	
☐☐☐■ Alarm reset:	min		5	120	60	
☐☐☐■ Air capacity limit	%		40	50	40	
☐■ Master						
☐■ Info						
☐■ Lang.						

Deutschland
STIEBEL ELTRON GmbH & Co. KG
Dr.-Stiebel-Straße 33 | 37603 Holzminden
Tel. 05531 702-0 | Fax 05531 702-480
info@stiebel-eltron.de
www.stiebel-eltron.de

Verkauf Tel. 05531 702-110 | Fax 05531 702-95108 | info-center@stiebel-eltron.de
Kundendienst Tel. 05531 702-111 | Fax 05531 702-95890 | kundendienst@stiebel-eltron.de
Ersatzteilverkauf Tel. 05531 702-120 | Fax 05531 702-95335 | ersatzteile@stiebel-eltron.de

Australia
STIEBEL ELTRON Australia Pty. Ltd.
294 Salmon Street | Port Melbourne VIC 3207
Tel. 03 9645-1833 | Fax 03 9644-5091
info@stiebel-eltron.com.au
www.stiebel-eltron.com.au

Austria
STIEBEL ELTRON Ges.m.b.H.
Gewerbegebiet Neubau-Nord
Margaritenstraße 4 A | 4063 Hörsching
Tel. 07221 74600-0 | Fax 07221 74600-42
info@stiebel-eltron.at
www.stiebel-eltron.at

Belgium
STIEBEL ELTRON bvba/sprl
't Hofveld 6 - D1 | 1702 Groot-Bijgaarden
Tel. 02 42322-22 | Fax 02 42322-12
info@stiebel-eltron.be
www.stiebel-eltron.be

China
STIEBEL ELTRON (Tianjin) Electric Appliance Co., Ltd.
Plant C3, XEDA International Industry City
Xiqing Economic Development Area
300385 Tianjin
Tel. 022 8396 2077 | Fax 022 8396 2075
info@stiebeleltron.cn
www.stiebeleltron.cn

Czech Republic
STIEBEL ELTRON spol. s r.o.
Dopraváků 749/3 | 184 00 Praha 8
Tel. 251116-111 | Fax 235512-122
info@stiebel-eltron.cz
www.stiebel-eltron.cz

Finland
STIEBEL ELTRON OY
Kapinakuja 1 | 04600 Mäntsälä
Tel. 020 720-9988
info@stiebel-eltron.fi
www.stiebel-eltron.fi

France
STIEBEL ELTRON SAS
7-9, rue des Selliers
B.P 85107 | 57073 Metz-Cédex 3
Tel. 0387 7438-88 | Fax 0387 7468-26
info@stiebel-eltron.fr
www.stiebel-eltron.fr

Hungary
STIEBEL ELTRON Kft.
Gyár u. 2 | 2040 Budaörs
Tel. 01 250-6055 | Fax 01 368-8097
info@stiebel-eltron.hu
www.stiebel-eltron.hu

Japan
NIHON STIEBEL Co. Ltd.
Kowa Kawasaki Nishiguchi Building 8F
66-2 Horikawa-Cho
Saiwai-Ku | 212-0013 Kawasaki
Tel. 044 540-3200 | Fax 044 540-3210
info@nihonstiebel.co.jp
www.nihonstiebel.co.jp

Netherlands
STIEBEL ELTRON Nederland B.V.
Daviottenweg 36 | 5222 BH 's-Hertogenbosch
Tel. 073 623-0000 | Fax 073 623-1141
info@stiebel-eltron.nl
www.stiebel-eltron.nl

New Zealand
Stiebel Eltron NZ Limited
61 Barrys Point Road | Auckland 0622
Tel. +64 9486 2221
info@stiebel-eltron.co.nz
www.stiebel-eltron.co.nz

Poland
STIEBEL ELTRON Polska Sp. z O.O.
ul. Działkowa 2 | 02-234 Warszawa
Tel. 022 60920-30 | Fax 022 60920-29
biuro@stiebel-eltron.pl
www.stiebel-eltron.pl

Russia
STIEBEL ELTRON LLC RUSSIA
Urzhumskaya street 4,
building 2 | 129343 Moscow
Tel. +7 495 125 0 125
info@stiebel-eltron.ru
www.stiebel-eltron.ru

Slovakia
STIEBEL ELTRON Slovakia, s.r.o.
Hlavná 1 | 058 01 Poprad
Tel. 052 7127-125 | Fax 052 7127-148
info@stiebel-eltron.sk
www.stiebel-eltron.sk

Switzerland
STIEBEL ELTRON AG
Industrie West
Gass 8 | 5242 Lupfig
Tel. 056 4640-500 | Fax 056 4640-501
info@stiebel-eltron.ch
www.stiebel-eltron.ch

Thailand
STIEBEL ELTRON Asia Ltd.
469 Moo 2 Tambol Klong-Jik
Amphur Bangpa-In | 13160 Ayutthaya
Tel. 035 220088 | Fax 035 221188
info@stiebeleltronasia.com
www.stiebeleltronasia.com

United Kingdom and Ireland
STIEBEL ELTRON UK Ltd.
Unit 12 Stadium Court
Stadium Road | CH62 3RP Bromborough
Tel. 0151 346-2300 | Fax 0151 334-2913
info@stiebel-eltron.co.uk
www.stiebel-eltron.co.uk

United States of America
STIEBEL ELTRON, Inc.
17 West Street | 01088 West Hatfield MA
Tel. 0413 247-3380 | Fax 0413 247-3369
info@stiebel-eltron-usa.com
www.stiebel-eltron-usa.com

STIEBEL ELTRON

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A 348375-43676-9667