

# Topvex SR/TR03, SR/TR04, SR/TR06

## Compact Air Handling Unit



## **GB** Installation instructions

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# 1 Declaration of Conformity

## Manufacturer



Systemair AB  
Industrivägen 3  
SE-739 30 Skinnskatteberg SWEDEN  
Office: +46 222 440 00 Fax: +46 222 440 99  
www.systemair.com

hereby confirms that the following products:

Air handling units

Topvex SR03 EL	Topvex SR06 EL	Topvex TR04 EL
Topvex SR03	Topvex SR06	Topvex TR04
Topvex SR03 HWL/HWH	Topvex SR06 HWL/HWH	Topvex TR04 HWL/HWH
Topvex SR04 EL	Topvex TR03 EL	Topvex TR06 EL
Topvex SR04	Topvex TR03	Topvex TR06
Topvex SR04 HWL/HWH	Topvex TR03 HWL/HWH	Topvex TR06 HWL/HWH

(The declaration applies only to product in the condition it was delivered in and installed in the facility in accordance with the included installation instructions. The insurance does not cover components that are added or actions carried out subsequently on the product)

Comply with all applicable requirements in the following directives

- Machinery Directive 2006/42/EC
- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC

The following harmonized standards are applied in applicable parts:

EN ISO 12100-1	Safety of machinery – Basic concepts, general principles for design – Part 1: Basic terminology, methodology
EN ISO 12100-2	Safety of machinery – Basic concepts, general principles for design – Part 2: Technical principles
EN ISO 14121-1:2007	Safety of machinery – Risk assessment – Part 1: Principles
EN 13857	Safety of machinery – Safety distances to prevent hazard zones being reached by upper or lower limbs
EN 60 335-1	Household and similar electrical appliances – Safety Part 1: General requirements
EN 60 335-2-40	Safety of household and similar electrical appliances - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers
EN 50 106	Safety of household and similar appliances – Particular rules for routine tests referring to appliances under the scope of EN 60 335-1 and EN 60967
EN 60 529	Degrees of protection provided by enclosures (IP Code)
EN 61000-6-2	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments
EN 61000-6-3	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standards for residential, commercial and light-industrial environments

The complete technical documentation is available.

Skinnskatteberg, 31-10-2011



Mats Sándor  
Technical Director

## 2 Warnings

The following admonitions will be presented in the different sections of the document.

### **Danger**

- Make sure that the Mains supply to the unit is disconnected before performing any maintenance or electrical work!
- All electrical connections must be carried out by an authorized installer and in accordance with local rules and regulations.

### **Warning**

- The door handles are only intended to be used during the installation. These must be removed before the unit is put into operation to ensure the required level of safety for the unit.  
The unit must be duct connected or in some other way provided with protection so that it is not possible to come in contact with the fans through the duct connections
- The unit is heavy. Be careful during transport and mounting. Risk of injury through pinching. Use protective clothing.
- Beware of sharp edges during mounting and maintenance. Make sure that a proper lifting device is used. Use protective clothing.
- The units electrical connection to the mains supply must be preceded by an all pole circuit breaker with a minimum 3 mm gap must.

### **Caution**

- If the unit is installed in a cold place make sure that all joints are covered with insulation, and tape well
- Duct connections/duct ends should be covered during storage and installation
- Do not connect tumble dryers to the ventilation system
- Take care not to damage the water battery when connecting water pipes to connectors. Use a spanner to tighten the connection.

## 3 Product information

### 3.1 General

This installation manual concerns air handling unit type Topvex SR/TR 03–06 manufactured by Systemair AB. Topvex SR/TR 03–06 include the following model options:

- **Model:** SR03, SR04, SR06, TR03, TR04, TR06
- **Heating coil:** **EL** (Electric), **HWL** (Water coil, low power), **HWH** (Water coil, high power) or **None**.
- **Right or left models:** **R** (Right) **L** (Left). The side where the supply air is located when viewed from the access side.
- **Airflow control:** **CAV** (Constant Air Volume), **VAV** (Variable Air Volume = Constant duct pressure control)

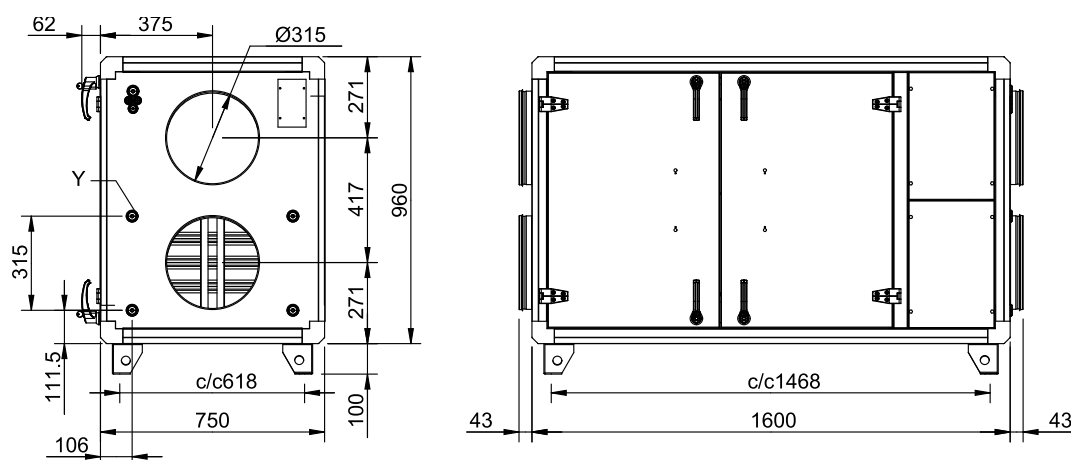
Water heating battery can be ordered as an accessory to units without re-heater.

This manual consists of basic information and recommendations concerning the design, installation, start-up and operation, to ensure a proper fail-free operation of the unit.

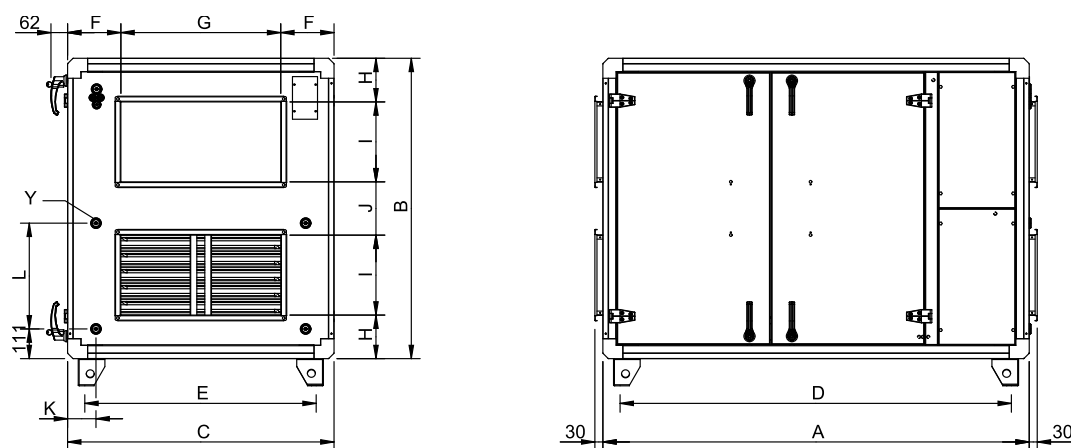
The key to proper and safe operating of the unit is to read this manual thoroughly, use the unit according to given guidelines and follow all safety requirements.

## 3.2 Technical Data

### 3.2.1 Dimensions and weights Topvex SR 03–06



**Fig. 1 Dimensions (mm) SR03 (Drawn as a right hand unit)**



**Fig. 2 Dimensions (mm) SR04, SR06 (Drawn as a right hand unit)**

Model	A	B	C	D (c/c)	E (c/c)	F
SR04	1600	1041	850	1468	729	175
SR06	1600	1128	1000	1468	868	200

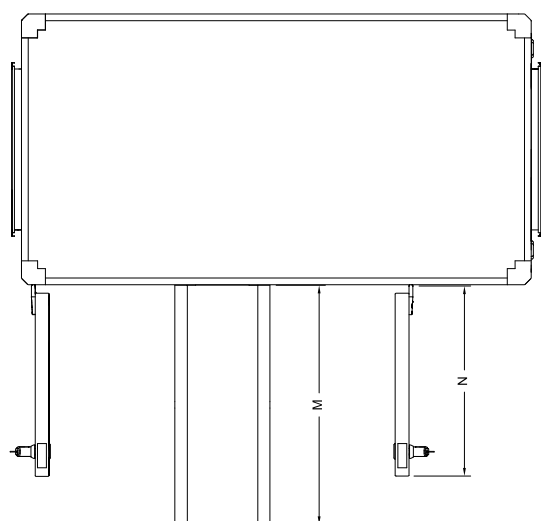
Model	G	H	I	J	K
SR04	500	171	250	200	355
SR06	600	164	300	200	396

Y: 15R 1/2" Inner thread

#### 3.2.1.1 Weights Topvex SR 03–06

Model	Weight (kg)
SR03	225
SR04	270
SR06	315

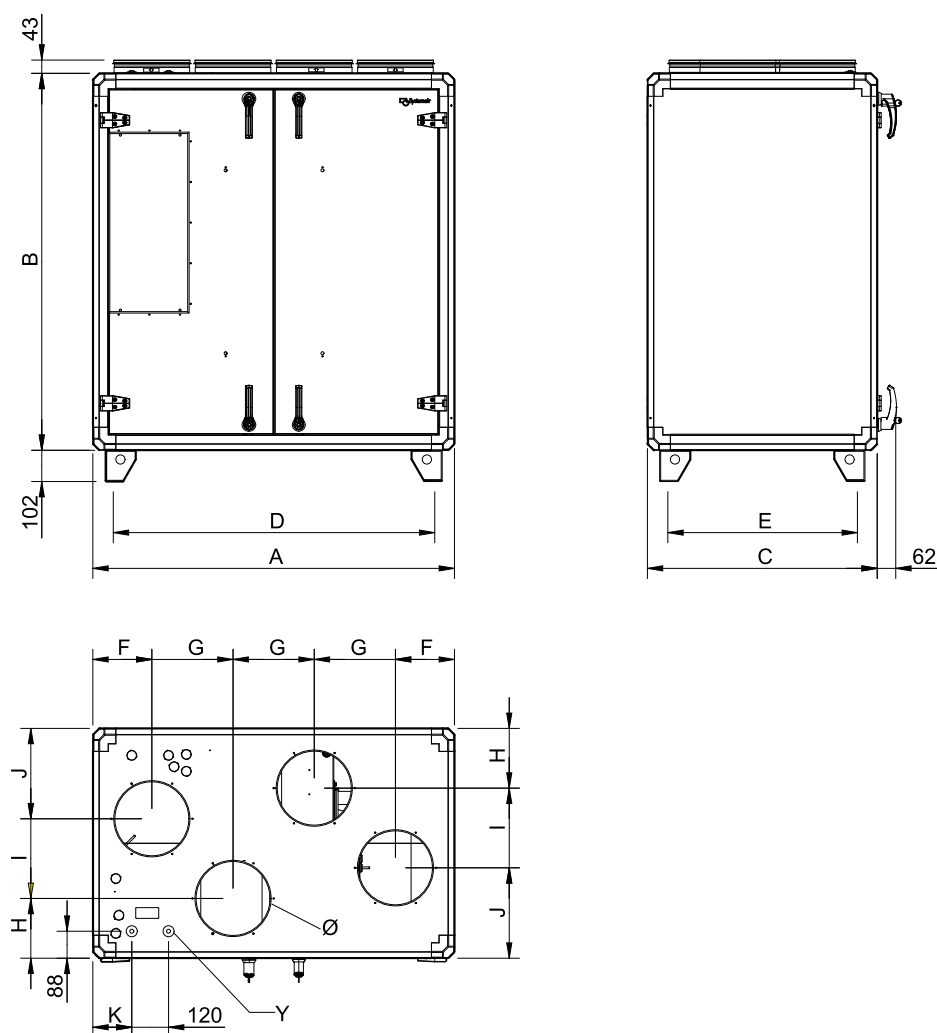
### 3.2.1.2 Space required Topvex SR 03–06



**Fig. 3 Space required**

Model	M (mm)	N (mm)
SR03	650	603
SR04	750	603
SR06	900	603

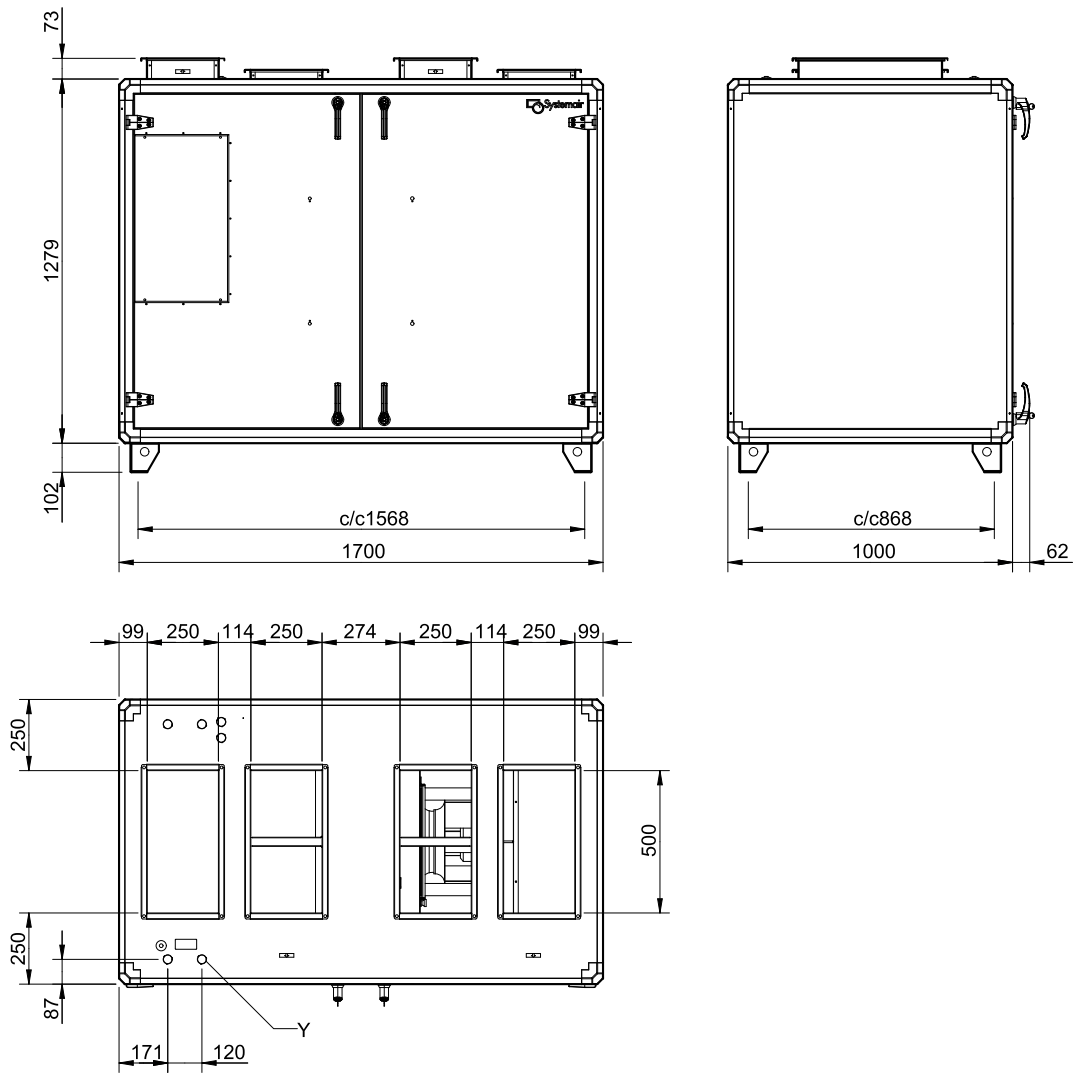
### 3.2.2 Dimension and weights Topvex TR 03–06



**Fig. 4 Dimensions (mm) TR03, TR04 (Drawn as a left hand unit)**

Model	A	B	C	D (c/c)	E (c/c)	F
TR03	1180	1230	750	1048	618	193
TR04	1480	1280	850	1348	718	209

Model	G	H	I	J	K	Ø
TR03	265	195	260	295	127	250
TR04	354	315	220	315	163	315



**Fig. 5 Dimensions (mm) TR06**

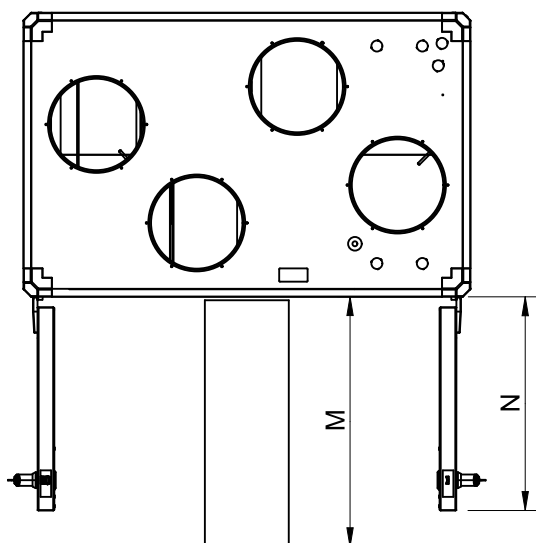
Y: 15R 1/2" Inner thread

### 3.2.2.1 Weights Topvex TR 03–06 (Drawn as a left hand unit)

Model	Weight (kg)
TR03	230
TR04	290
TR06	360



### 3.2.2.2 Space required Topvex TR 03–06



**Fig. 6 Space required**

Model	M (mm)	N (mm)
TR03	660	570
TR04	760	715
TR06	910	825

### 3.2.3 Electrical data Topvex SR/TR 03–06

**Table 1: Power Consumption**

Model	Fans (W tot.) 230V 1~ and 400 V 3N~	Fans (W tot.) 230V 3~	El Heating battery (kW tot.)	Fuse (mains) (A) for 230V 1~ and 400 V 3N~	Fuse (mains) (A) for 230V 1~ and 230V 3~
SR/TR03 EL	1016/1010	–	3	3x13	3x16
SR/TR03 (None, HWL/HWH)	1016/1010	–	–	13	13
SR/TR04 EL	1560/1538	–	4	3x16	3x20
SR/TR04 (None, HWL/HWH)	1560/1538	–	–	10	13
SR/TR06 EL	2066/2010	2246	6.3	3x16	3x25
SR/TR06 (None, HWL/HWH)	2066/2010	2246	–	3x10	3x13

### 3.3 Transport and Storage

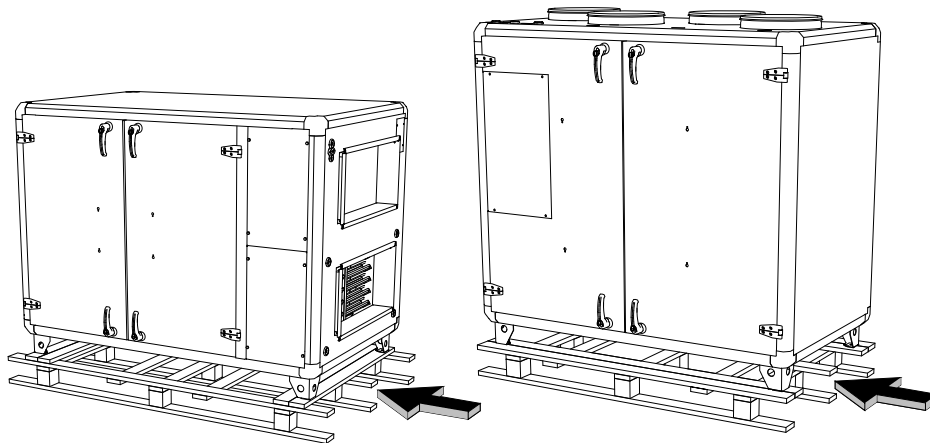
The Topvex SR/TR 03–06 should be stored and transported in such a way that it is protected against physical damage that can harm panels, handles, display etc. It should be covered so that dust, rain and snow cannot enter and damage the unit and its components. The appliance is delivered in one piece containing all necessary components, wrapped in plastic on a pallet for easy transportation.

When transporting the Topvex SR/TR 03–06 units use a forklift. placed on the gable of the unit (figure 7.)



#### Warning

The unit is heavy. Be careful during transport and mounting. Risk of injury through pinching. Use protective clothing.



**Fig. 7 Transporting the unit**

## 4 Installation

### 4.1 Unpacking

Verify that all ordered equipment are delivered before starting the installation. Any discrepancies from the ordered equipment must be reported to the supplier of Systemair products.

### 4.2 Where/how to install

Topvex SR/TR 03–06 are meant for indoor installation. Topvex SR03,SR04 and SR06 can be installed outside if weather protected. Use accessory ODS to size 04 and 06. Place the unit on a **horizontal flat surface**. It's important that the unit is completely levelled before it is put into operation.

Place the unit preferably in a separate room (e.g. storage, laundry room, attic or similar). The electronic components should not be exposed to lower temperature than 0°C and higher than +50°C.

When choosing the location it should be kept in mind that the unit requires maintenance regularly and that the inspection doors should be easily accessible. Leave free space for opening the doors and for taking out the main components (figure 3 and figure 6).

Avoid placing the appliance against a wall, as low frequency noise can cause vibrations in the wall even if the fan noise-level is acceptable. If this is not possible it is recommended to carefully insulate the wall.

The outdoor air intake of the building should if possible be put in the northern or eastern side of the building and away from other exhaust outlets like kitchen fan outcasts or laundry room outlets.

## 4.3 Installing the Unit

The unit must be installed in the following position (figure 8).

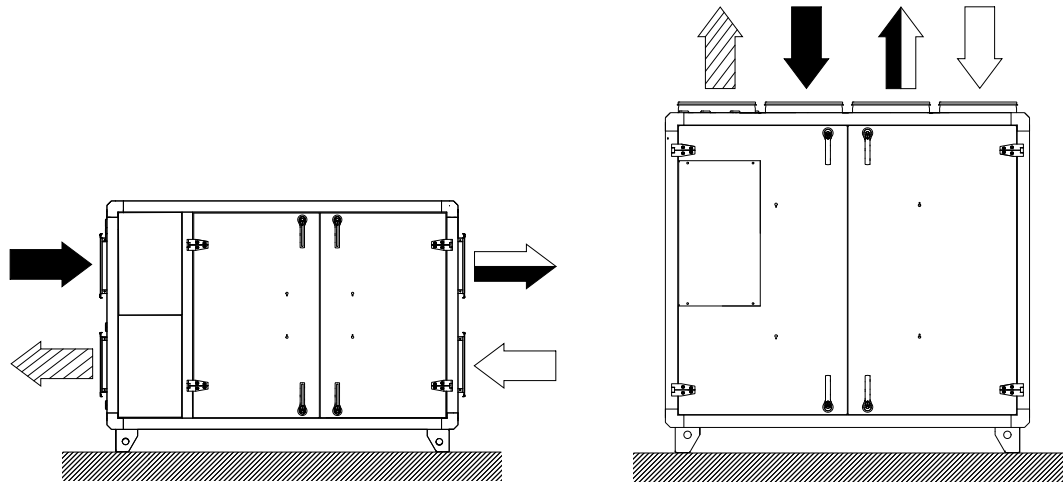


Fig. 8 Installation position (left hand unit)

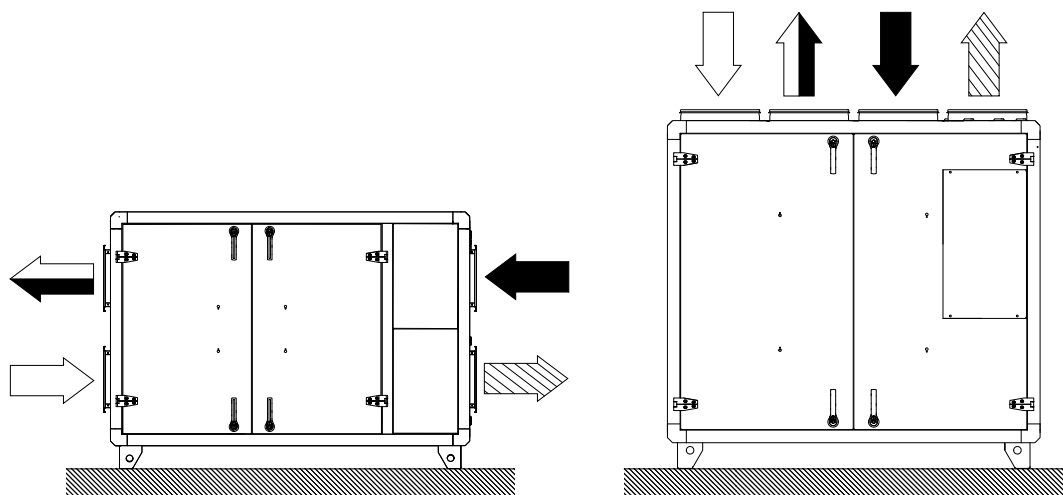


Fig. 9 Installation position (right hand unit)

Table 2: Symbol description

Symbol	Description
	Supply air
	Extract air
	Outdoor air
	Exhaust air

## 4.3.1 Installation procedure

1

Prepare the surface where the unit is to be mounted. Make sure that the surface is flat, levelled and that it supports the weight of the unit. Perform the installation in accordance with local rules and regulations.

2

Lift the unit in place.

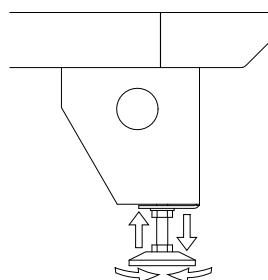


### Warning

Beware of sharp edges during mounting and maintenance. Make sure that a proper lifting device is used. Use protective clothing.

3

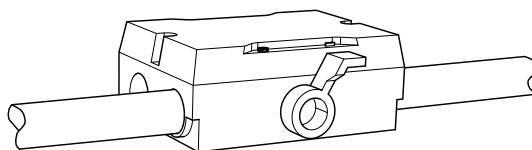
Level the unit with help of the enclosed mounting feet



4

Connect the unit electrically to the mains through the all pole circuit breaker (safety switch), which is enclosed inside the unit on delivery. The wiring is led through the gable of the unit (Topvex SR 03–06) or through the top of the unit casing (Topvex TR 03–06) directly to the electrical connection box.

See enclosed wiring diagram, and below table (table 3) for more information.



### Warning

The units electrical connection to the mains supply must be preceded by an all pole circuit breaker with a minimum 3 mm gap must.



### Danger

- Make sure that the Mains supply to the unit is disconnected before performing any maintenance or electrical work!
- All electrical connections must be carried out by an authorized installer and in accordance with local rules and regulations.

## 4.4 Supply air sensor (Topvex SR 03–06)

The supply air sensor is fitted in the duct ca. 3 m after the unit in the supply air duct (figure 10). See table 3 to which terminals the sensor needs to be connected in the electrical connection box. Other temperature sensors are built in to the unit from factory. The supply air sensor is enclosed in the unit package on delivery.

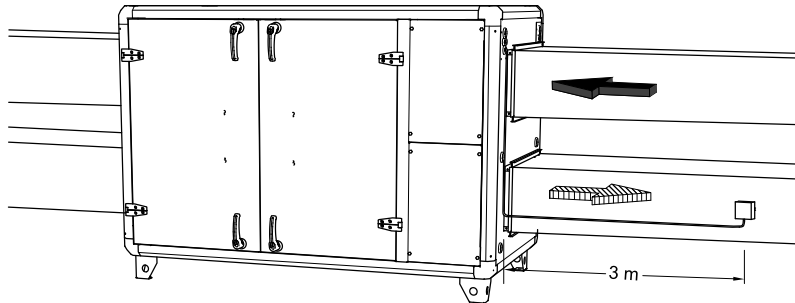


Fig. 10 Installed supply air sensor (right hand connected unit)

## 4.5 Installation of VAV models

If the unit is delivered as a VAV (Variable Air Volume) unit the pressure transmitters controlling the fan speeds are delivered loosely with the unit. The pressure transmitters need to be mounted in the supply and extract air ducts (figure 11) and connected to terminals 40–42 (table 3).

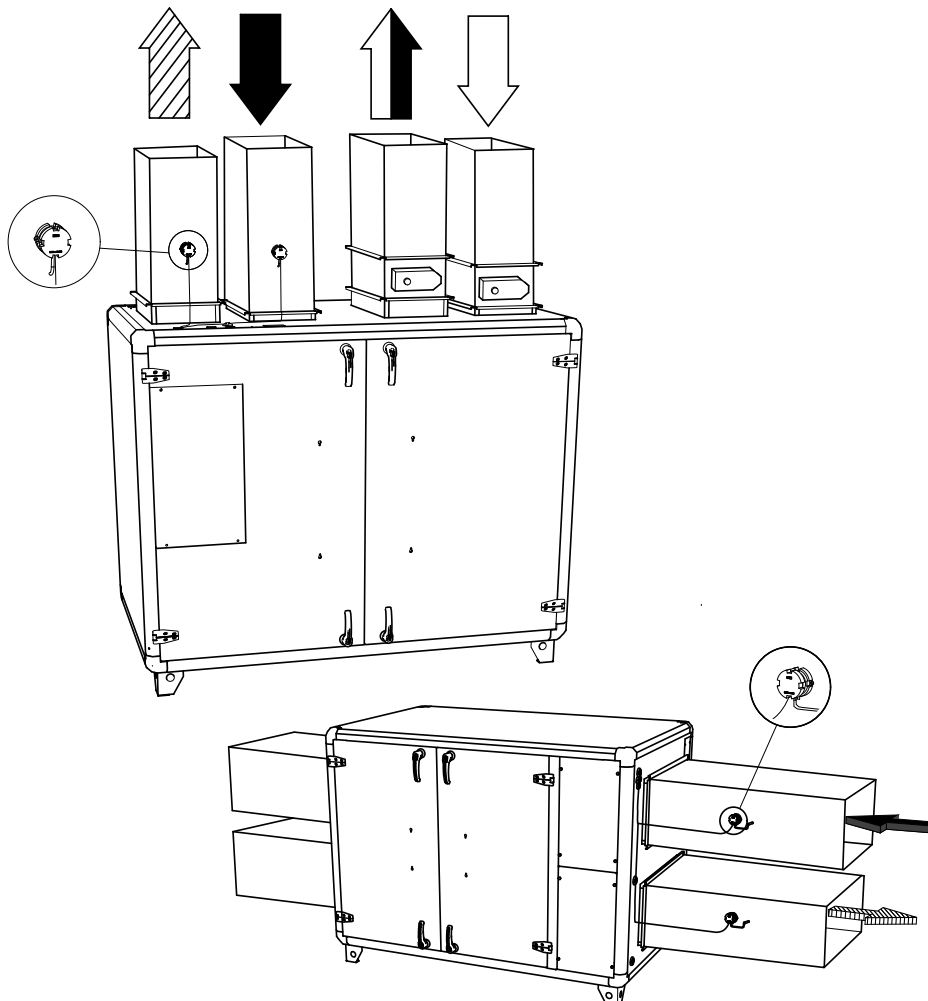
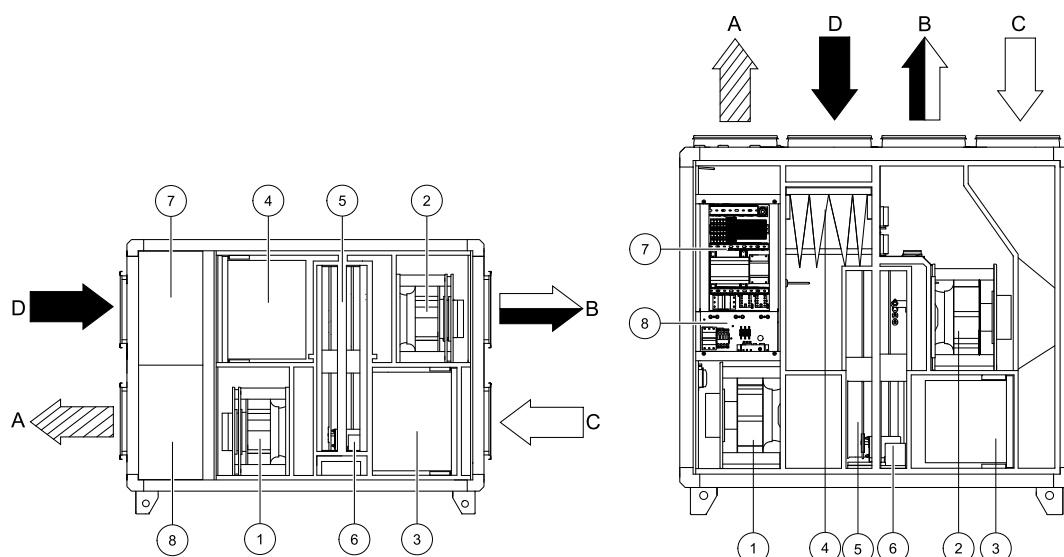


Fig. 11 VAV installation





## 4.6 Connections

### 4.6.1 Ducting

#### 4.6.1.1 Air connections principles



**Fig. 12 Connections and basic components in left hand connected units**

Position	Description	Symbol
A	Connection supply air	
B	Connection exhaust air	
C	Connection outdoor air	
D	Connection extract air	
1	Fan supply air	
2	Fan extract air	
3	Filter supply air	
4	Filter extract air	
5	Heat exchanger	
6	Rotor motor	
7	Electric compartment	
8	Re-heater battery	

#### 4.6.1.2 Condensation and Heat Insulation

Outdoor air duct and discharge ducts must always be well insulated against condensation. Correct insulation installation on ducts connected to the unit is especially important. All ducts installed in cold rooms/areas must be well insulated. Use insulating covering (minimum 100 mm mineral wool) with plastic diffusion barrier. In areas with extremely low outdoor temperatures during the winter, additional insulation must be installed. Total insulation thickness must be at least 150 mm.



## Caution

- If the unit is installed in a cold place make sure that all joints are covered with insulation, and tape well
- Duct connections/duct ends should be covered during storage and installation
- Do not connect tumble dryers to the ventilation system

### 4.6.1.3 Silencers

To avoid fan noise being transferred via the duct system, silencers should be installed both on supply and extract air.

To avoid noise being transferred between rooms via the duct system and also to reduce noise from the duct system itself, installation of silencers before every inlet diffuser is recommended.

### 4.6.2 Mounting the Water heating battery

#### Note:

Applies to units without re-heater!

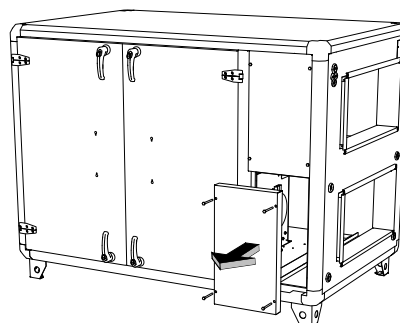
It is possible to add a water heating battery to units without re-heater (None). A water heating battery can be acquired as an accessory.

The following procedure describes how to mount and connect the water heating battery in the unit

#### 4.6.2.1 HW installation in Topvex SR 03–06 without re-heater

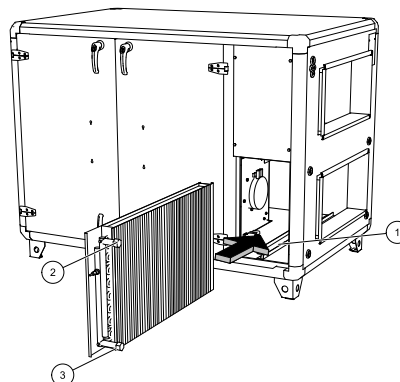
1

Open the inspection door to the heating section by unscrewing the 4 screws.



2

Insert the water heating battery in the metal guide rail (pos.1) situated in the heating section all the way to the end of the rail. Make sure the threaded connections (pos.2 and 3) end up on the front side of the unit facing the gable as shown in the figure.



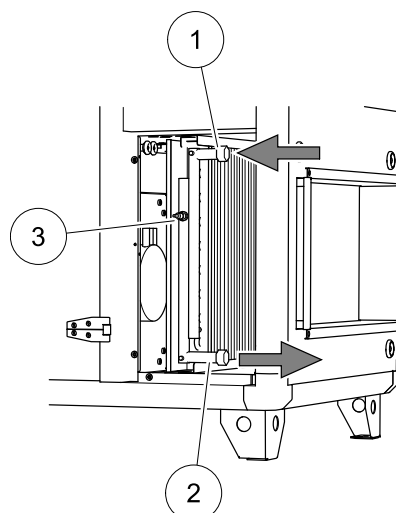


### 3

Connect the water piping to the threaded connections (pos.1 and 2).

The tubes have hexagonal connectors which are internally threaded (15R 1/2" Inner thread). Cover plates around the pipes are fixed to the unit (reinforcement).

The arrows in the figure display how the hot water should be connected to the battery (pos. 1 and 2).



#### Note:

In a right handed (R) unit the hot water inlet is connected to the upper tube and the return water to the bottom connection. For a left handed (L) unit the hot water battery is turned upside down, i.e. the hot water inlet is connected to the bottom and the return water to the top connection.



#### Caution

Take care not to damage the water battery when connecting water pipes to connectors. Use a spanner to tighten the connection.

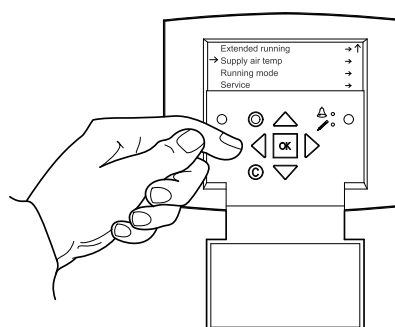
Connect the frost protection sensor (pos.3) to terminals 44 and 40 in the electrical connection box. Use the prepared internal lead throughs to draw the wiring between the compartments.

### 4

Connect all necessary accessories such as water valves and valve actuators. See enclosed wiring diagram for more information.

### 5

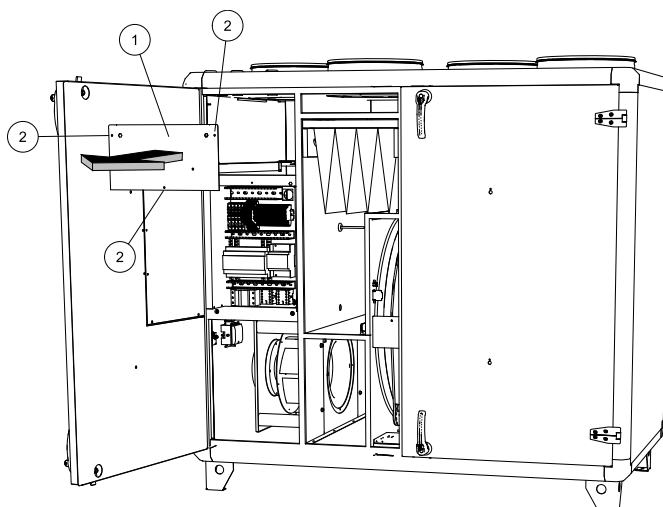
Use the control panel to program the unit for water heating. See chapter 4.6.3 how to do the software configuration.



## 4.6.2.2 HW installation in Topvex TR 03–06 without re-heater

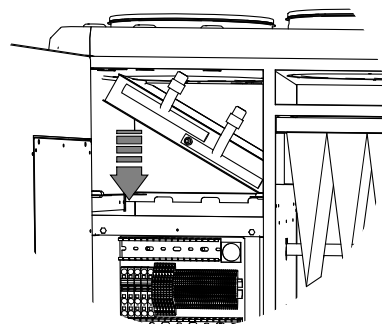
1

Remove the cover plate (pos.1) by unscrewing 3 screws (pos.2).



2

Insert the water heating battery by tilting it as illustrated in the figure.

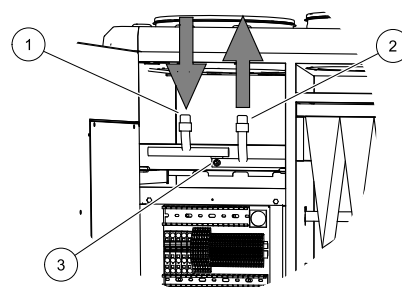


3

Connect the water piping to the threaded connections (pos.1 and 2).

The tubes have hexagonal connectors which are internally threaded (15R 1/2" Inner thread). Cover plates around the pipes are fixed to the unit (reinforcement).

The arrows in the figure display how the hot water should be connected to the battery. Connect the hot water inlet to the upper tube connection (pos.1) and the return water to the bottom connection (pos.2).



### Caution

Take care not to damage the water battery when connecting water pipes to connectors. Use a spanner to tighten the connection.

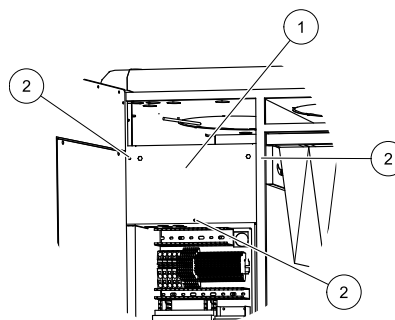
Connect the frost protection sensor (pos.3) to terminals 44 and 40 in the electrical connection box. Use the prepared internal lead throughs to draw the wiring between the compartments.

4

Connect all necessary accessories such as water valves and valve actuators. See enclosed wiring diagram for more information.

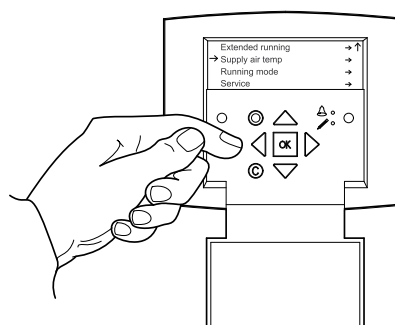
5

Put back the cover plate (pos.1) and fasten it with the 3 screws (pos.2).



6

Use the control panel to program the unit for water heating. See chapter 4.6.3 how to do the software configuration.



## 4.6.3 Configuring the software for water heating

After all the physical installations for water heating have been done the unit software needs to be setup for water heating by the use of the control panel. This is done by activating the analogue input where the frost protection sensor has been connected and set the heating option to *Water*.

Follow below procedure.

### 1 Access rights

Go to *Access Rights* with the UP/DOWN arrow buttons and press *Right* with the right arrow button

Temperature  
Air control  
Time settings  
→**Access Rights**

### 2 Log on

Choose *Log on*, press *Right*

→**Log on**  
Log off  
Change password

### 3 Password

Enter password *3333* by pressing *OK* followed by the UP/DOWN buttons. Choose next digit by pressing the *Right* arrow button followed by *OK* when all 4 digits are put in.

Log on  
**Enter password xxxx**  
Actual level: None

**Go back 2 steps** with the *Left* arrow button

#### 4 Configuration menu

Go to Configuration and press Right

Man/Auto  
Settings  
→**Configuration**  
Access Rights

#### 5 Inputs/Outputs

Go to Inputs/Outputs and press Right

→**Inputs/Outputs**  
Control function  
Fan control  
Extra Sequence Y4

#### 6 Universal input

Go to Universal inputs and press Right

Analogue inputs  
Digital inputs  
→**Universal inputs**  
Analogue outputs

#### 7 Frost Protection

Go to Universal input 3 and change the AI sign: to Frost protection by pressing OK followed by the UP/DOWN arrow buttons, confirm with OK.

Go back 2 steps with the Left arrow button.

Universal input 3  
Choose AI or DI sign  
**AI sign: Frost protection**  
DI sign: Not used

#### 8 Heating

Go to Heating and press Right

Fan control  
Extra Sequence Y4  
→**Heating**  
Exchanger

#### 9 Water

Press OK followed by UP/DOWN buttons until Water is displayed. Confirm by pressing OK.

Go back 2 steps to the main menu with the Left arrow button and up to the start screen with the UP/DOWN arrow buttons.

Heating  
**Water**

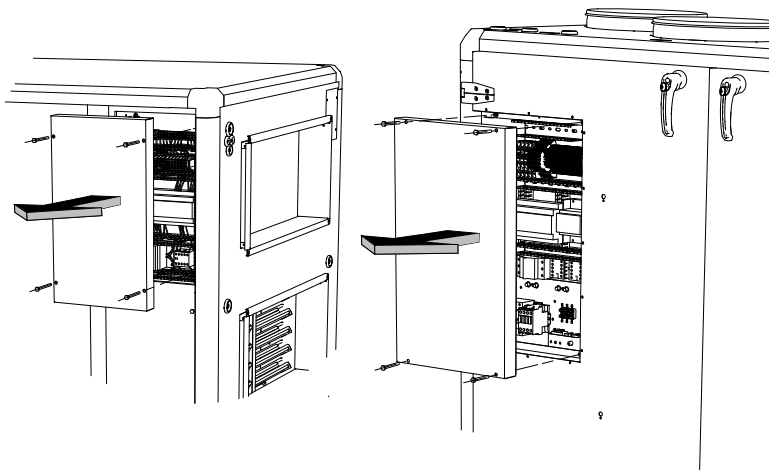
The unit is now ready to be used with the installed water heating battery.

## 4.6.4 Electric Connections

All electric connections are made in the electrical connection box which can be found in the front of the unit (figure 13). The hatch is removed by unscrewing four screws (figure 13).

The unit must not be put into operation before all the electrical safety precautions have been read and understood. See the enclosed wiring diagram for internal and external wiring.

All external connections to possible accessories are made to terminals inside the electrical connection box (table 3).



**Fig. 13 Opening the electrical connection box**

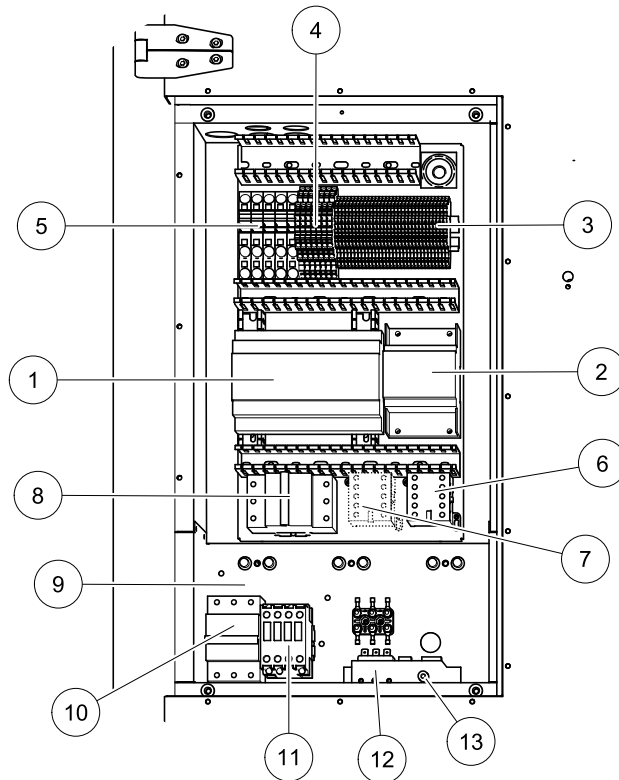
### **Danger**

- Make sure that the Mains supply to the unit is disconnected before performing any maintenance or electrical work!
- All electrical connections must be carried out by an authorized installer and in accordance with local rules and regulations.

#### 4.6.4.1 Electrical connection box, Components

Topvex SR/TR 03–06 are equipped with a built in regulator and internal wiring (figure 14).

The figure shows the electrical connection box for the Topvex TR 03–06 units. The connection box for the Topvex SR 03–06 has the same layout and components with the difference that the electrical heater is situated in a separate compartment.



**Fig. 14 Electric components**

Position	description
1	Regulator E-28
2	Transformer 230/24V AC
3	Terminals for internal and external components
4	Terminals for internal wiring
5	Terminals for mains supply to the unit
6	Contactor (K1) On/Off rotor motor
7	Contactor (K2) On/Off Pump control water (HW units only, not present in EL-units)
8	Automatic fuse
9	Electric heater frame
10	Automatic fuse for heater
11	Contactor (K3) for on/off control of EL heater
12	Thermostat (EL units)
13	Manual over heat protection reset (EL units)

#### 4.6.4.2 Topvex SR/TR03, SR/TR04, SR/TR06 External Connections

**Table 3: Connections to external functions**

Terminal block		Description	Remark
	PE	Ground	
N	N	Earthed neutral (supply voltage)	
L1	L1	Phase (supply voltage)	Used for phase 230V 1~ if the unit has this mains supply 400V 3~/230V 3~
L2	L2	Phase (supply voltage)	400V 3~/230V 3~
L3	L3	Phase (supply voltage)	400V 3~/230V 3~
1	G0	Reference (Water valve actuator mains supply)	24V AC
2	G	Mains supply (Water valve actuator)	24V AC
10	DO ref	DO reference	G (24V AC)
12 <sup>1</sup>	DO 2	Outdoor/Exhaust air damper	24V AC Max. 2,0 A continuous load
11	L1	Circulation pump hot water system	230V AC
14 <sup>1</sup>	DO 4	Cooling pump	24V AC
15 <sup>1</sup>	DO 5	DX Cooling step 1	24V AC
16 <sup>1</sup>	DO 6	DX Cooling step 2	24V AC
17 <sup>1</sup>	DO 7	Alarm output for DO signals	24V AC
30	AI Ref	Supply air sensor reference	neutral
31	AI 1	Sensor supply air	
40	Agnd	UI reference	neutral
41 <sup>2</sup>	UAI 1/(UDI 1)	Pressure transmitter extract air	
42 <sup>2</sup>	UAI 2/(UDI 2)	Pressure transmitter supply air	
44	UAI 3/(UDI 3)	Frost protection sensor water heating battery	Use terminal 40 as reference
4 <sup>3</sup>	DI ref	Extended running/Fire alarm reference	+ 24V DC
50	B	Exo-line B	Modbus, Exo-line connection
51	A	Exo-line A	Modbus, Exo-line connection
52	N	Exo-line N	Modbus, Exo-line connection
53	E	Exo-line E	Exo-line connection
57	+	LON +	LON connection
58	-	LON -	LON connection
59	Egnd	LON Egnd	LON connection
71	DI 1	External alarm	Normally open contact Use terminal 4 as reference

## Connections to external functions cont'd

Terminal block		Description	Remark
74 <sup>3</sup>	DI 4	Extended running	Normally open contact Use terminal 4 as reference
75 <sup>3</sup>	DI 5	Fire alarm	Normally open contact Use terminal 4 as reference
76	DI 6	External stop	Normally open contact Use terminal 4 as reference
90	Agnd	AO Reference	neutral
93	AO 3	Control signal valve actuator, Water Heating	0–10V DC
94	AO 4	Control signal valve actuator, Cooling	0–10V DC

1. Maximum current load for all DO combined: 8A
2. Connection to external pressure sensor in case of pressure controlled unit (VAV)
3. These inputs may only be wired to voltage free contacts



### 4.6.4.3 BMS Connection

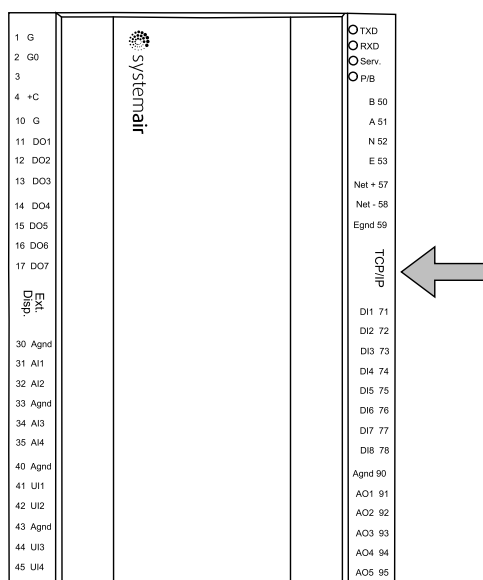
Exoline, Modbus and optional LON connections are to be connected to the following terminals:

- RS485(Modbus): 50-51-52
- RS485(Exoline): 50-51-52-53
- LON: 57-58-59

RS-485 contact and Exoline via TCP/IP (WEB) are included as standard (figure 15).

#### Note:

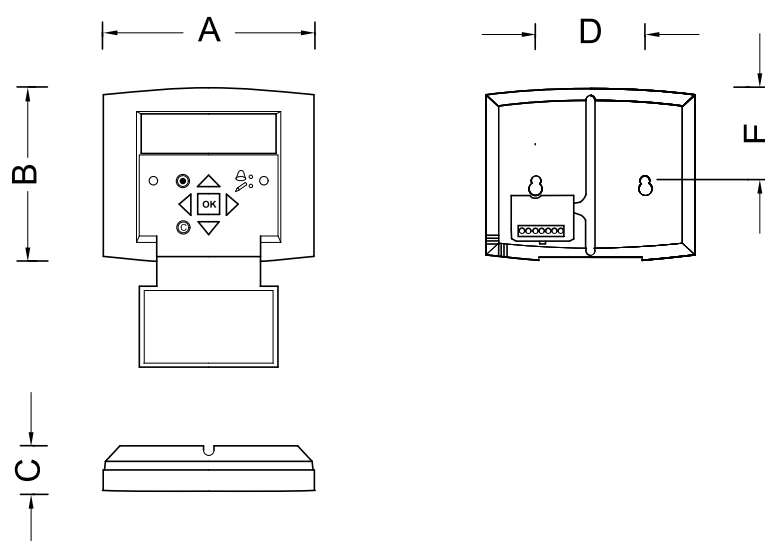
RS-485 port and TCP/IP port can not be used simultaneously! I.e. possible communications are Modbus or exoline via RS-485 or Exoline (WEB) via TCP/IP.



**Fig. 15 BMS connection on the controller**

## 4.7 Installing the Control Panel

### 4.7.1 Dimensions



**Fig. 16 Control panel dimensions**

Position	Dimensions (mm)
A	115.0
B	94.0
C	26.0
D	c/c 60.0
E	50.5

### 4.7.2 General information

The control panel is delivered connected to the Corrigo control unit situated in the electrical connection box. Cable length is 10 m. In case the control panel needs to be detached from the signal cable it is possible to loosen the wires on the back of the control panel (figure 17).

A set of self-adhesive magnet strips are included in the package to facilitate installation on a metal surface.

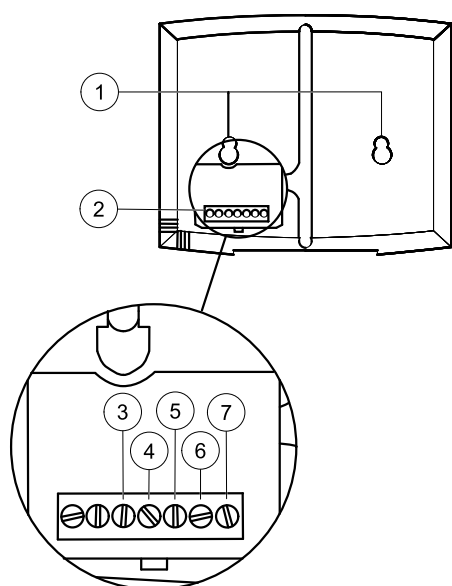
### 4.7.3 Installation

**1**

Find an appropriate place to install the control panel. Maximum length between control panel and unit is 10 m as standard.

**2**

If needed, drill two holes in the wall to hang the control panel (center to center: 60 mm) (pos.1, figure 17).



**Fig. 17 Control panel wire connections**

Position	Description
1	Mounting holes
2	Connection block
3	Connection to yellow cable
4	Connection to orange cable
5	Connection to red cable
6	Connection to brown cable
7	Connection to black cable

## 4.8 Additional Equipment

For information concerning additional external equipment such as valve actuators, motorized dampers, E-tool, roof units, wall grilles etc. see technical catalogue and their enclosed instructions.

For electrical connections of external components see enclosed wiring chart.



Systemair AB reserves the right to make changes and improvements to the contents of this manual without prior notice.



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