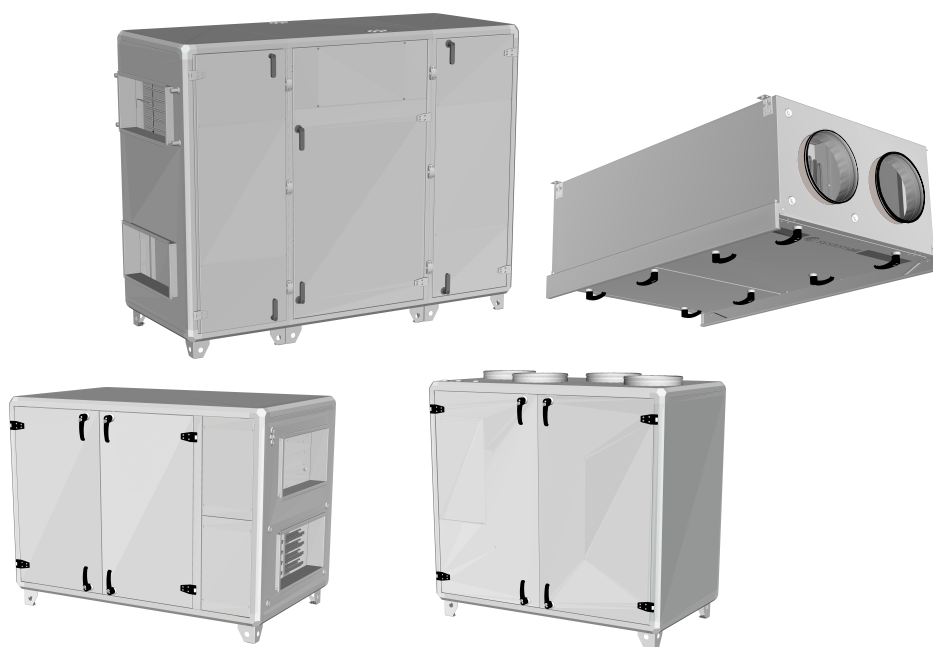


# Topvex

## Mounting the Water heating battery



### **GB** Installation instructions

## Contents

1 HW installation for units without re-heater .....	1
1.1 Topvex SC03-11 .....	1
1.2 Topvex SR03-06, Topvex SR 09-11 .....	3
1.3 Topvex TR03-06, Topvex TR 09-15 .....	4
1.4 Topvex FR03-11 .....	6
2 Accessories .....	7
3 Program the software for water heating .....	8

# 1 HW installation for units without re-heater

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

## **Caution**

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

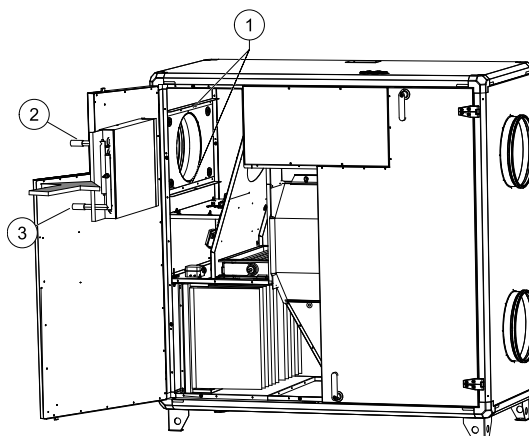
## 1.1 Topvex SC03-11

1

Open the inspection door to the heating section. Before inserting the water heating battery the motor has to be taken out, see the "Operating and Maintenance instructions".

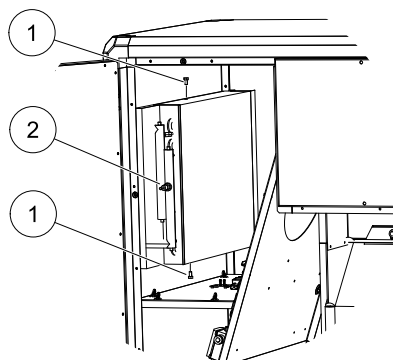
2

Insert the water heating battery in the metal guide rails (pos.1) situated in the heating section all the way to the end of the rails. 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

Fasten the water battery with two bolts (pos 1). Then insert the motor again. Connect the frost protection sensor (pos.2) to terminals 44 and 40 in the electrical connection box. Use the prepared internal lead throughs to draw the wiring between the compartments.

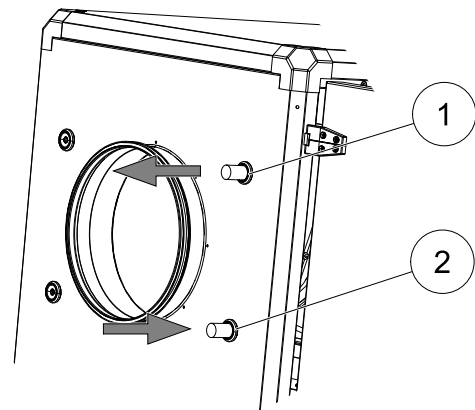


#### 4

Connect 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).

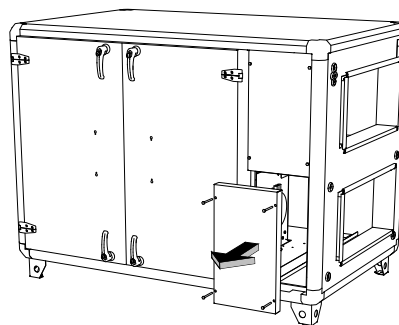
The arrows in the figure display how the hot water should be connected to the battery (pos. 1 and 2).



## 1.2 Topvex SR03-06, Topvex SR 09-11

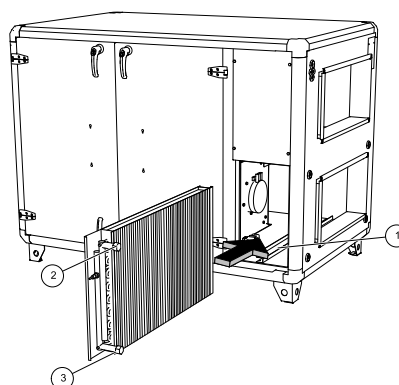
1

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.

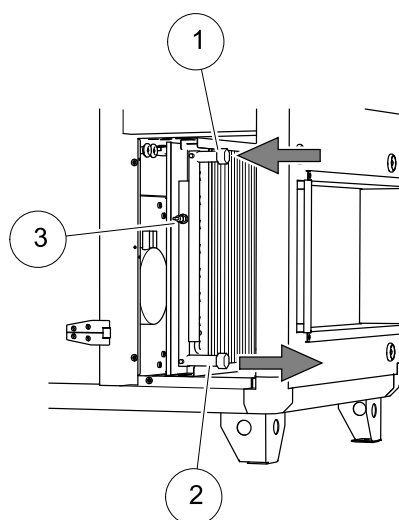


3

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:

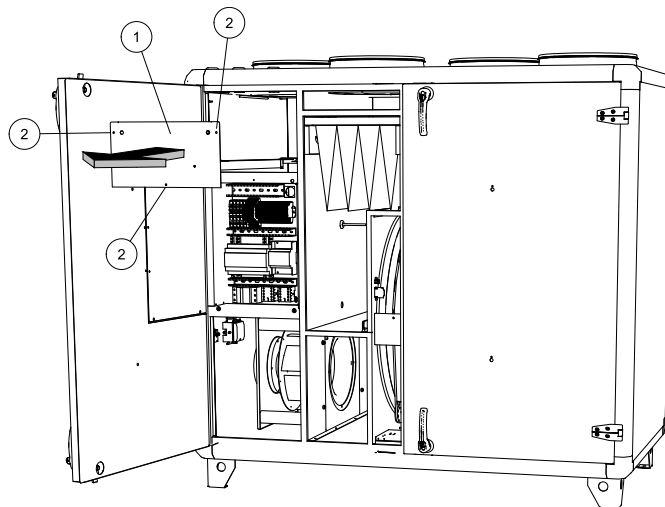
In a right handed (R) unit the hot water inlet is connected to the upper tube and the return water to the bottom connection. For a left handed (L) unit the hot water battery is turned upside down, i.e. the hot water inlet is connected to the bottom and the return water to the top connection.

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.

## 1.3 Topvex TR03-06, Topvex TR 09-15

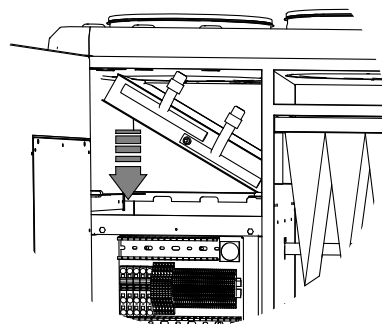
**1**

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.

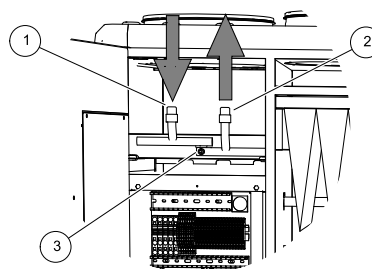


**3**

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).



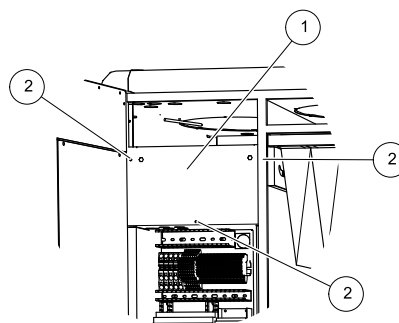
Connect the frost protection sensor (pos.3) to terminals 44 and 40 in the electrical connection box. Use the prepared internal lead throughs to draw the wiring between the compartments.

**4**

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

**5**

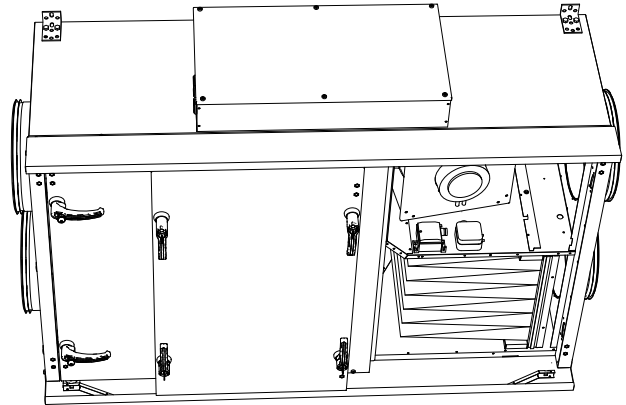
Put back the cover plate (pos.1) and fasten it with the 3 screws (pos.2).



## 1.4 Topvex FR03-11

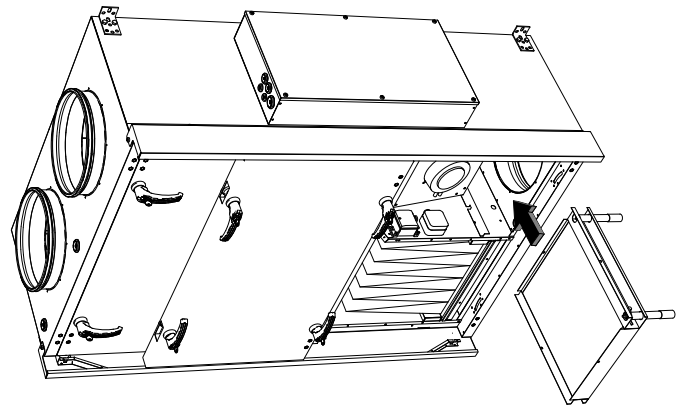
**1**

Open the inspection door at the supply/extract air side of the unit.



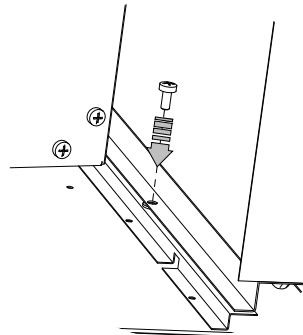
**2**

Insert the water heating battery in front of the supply air fan and push the connection tubes through the prepared holes in the unit gable. Choose vertical or horizontal positioning of the water coil.



**3**

Fasten the frame of the water heating battery with 2 screws in the prepared threaded inserts





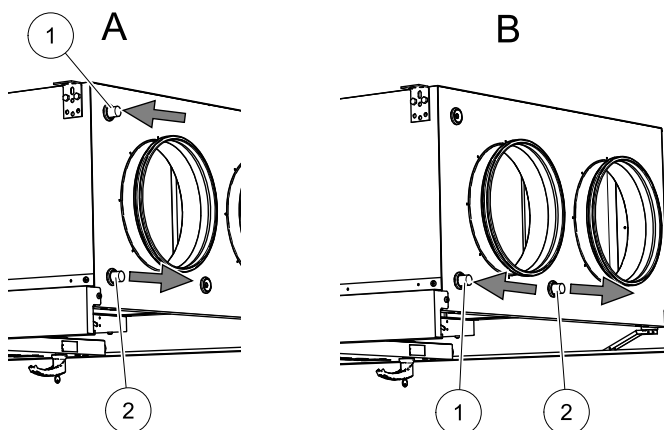
#### 4

The water heating battery can be mounted either vertically (A) or horizontally (B)

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

The tubes have hexagonal connectors which are internally threaded (15R 1/2" outer thread).

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



#### Note:

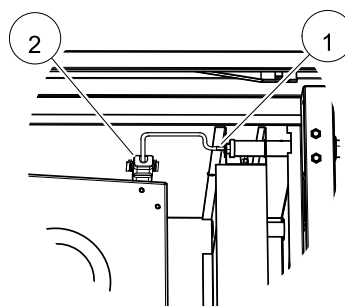
The unit in the illustration is installed with the inspection doors facing downward, i.e. false ceiling installation

#### 5

Connect the frost protection sensor (pos. 1) to the prepared fast coupling (pos. 2) on the inside casing wall (wires are polarity independent).

#### Note:

The frost protection sensor is placed on the return water tube.

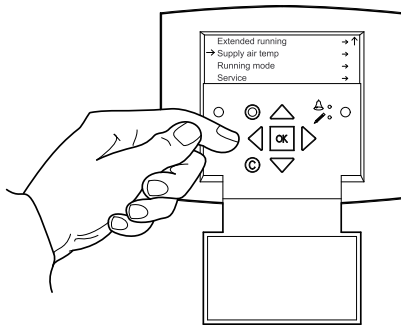


## 2 Accessories

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

Use the control panel to program the unit for water heating. See chapter 3 "Program the software for water heating".

## 3 Program 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.

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

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

### 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.

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



Systemair AB  
Industrivägen 3  
SE-739 30 Skinnkatteberg, Sweden

Phone +46 222 440 00

Fax +46 222 440 99

[www.systemair.com](http://www.systemair.com)