

# COMPACT AIRHANDLING™



## FOUR PORTER

PACKAGED TYPE ENERGY RECOVERY UNIT

INSTALLATION AND OPERATION MANUAL

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# 1. WARNINGS & SAFETY INFORMATION

*Please read this manual before using the product!!!*

## Prohibitions

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- ⚠ Unauthorized personnel must not interfere in unit and/or must not use unoriginal spare parts.
- ⚠ Do not operate the unit so as to expose it to the external environment conditions by opening the doors protecting the electrical and electronic equipment of the unit.
- ⚠ Do not use this product outside the range of its rated voltage and control capacity.
- ⚠ This product must not be disassembled under any circumstances. Only authorized repair technicians are qualified to conduct disassembly and repairs.
- ⚠ Don't install the units in a place where contains combustible abrasive and toxic gases and vapors.

## Caution

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- ⚠ Install this product in an environment where the temperature ranges from 0 °C to +40 °C and the relative humidity is less than 80%. If condensation is expected to form, heat up the fresh outside air by a duct heater etc.
- ⚠ This unit is designed for the indoor conditions, not for outdoor use.
- ⚠ This unit has to be used under proper conditions according to its technical specification and design purpose. [Otherwise responsibility belongs to practitioner]
- ⚠ Perform the preliminary inspections before starting-up the unit.
- ⚠ Bare in mind that a wrong cleaning application may result in undesired damage to the unit and/or the operator.
- ⚠ The disassembled dirty filters should be placed in a closed, isolated box and should be destroyed in compliance with the solid waste procedures.

## Transportation & Installation

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- ⚠ Packaging shouldn't be removed until the unit reaches the installation point so that no damage occurs on the unit.
- ⚠ Select an adequately sturdy position for installing the product and install it properly and securely.
- ⚠ Do not install this product where it will be directly exposed to rain.
- ⚠ Do not shake and jerk the units during the transportation.
- ⚠ Prevent the vibration and the shake during the transportation for to prevent damages in the unit.

## Work Safety

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- ⚠ Never perform maintenance or repair works on plugged in units.
- ⚠ Do not touch the electrical equipment of the unit with bare hands without any protection.
- ⚠ While performing any maintenance on the unit, the electricity of the unit should be disconnected and a warning sign should be used to show that the unit is under maintenance.
- ⚠ Intervention by unauthorized people should not be allowed on any electrical part of the unit.
- ⚠ Gloves should be worn while installation.
- ⚠ Do not touch the hot surfaces during the operation of the unit.

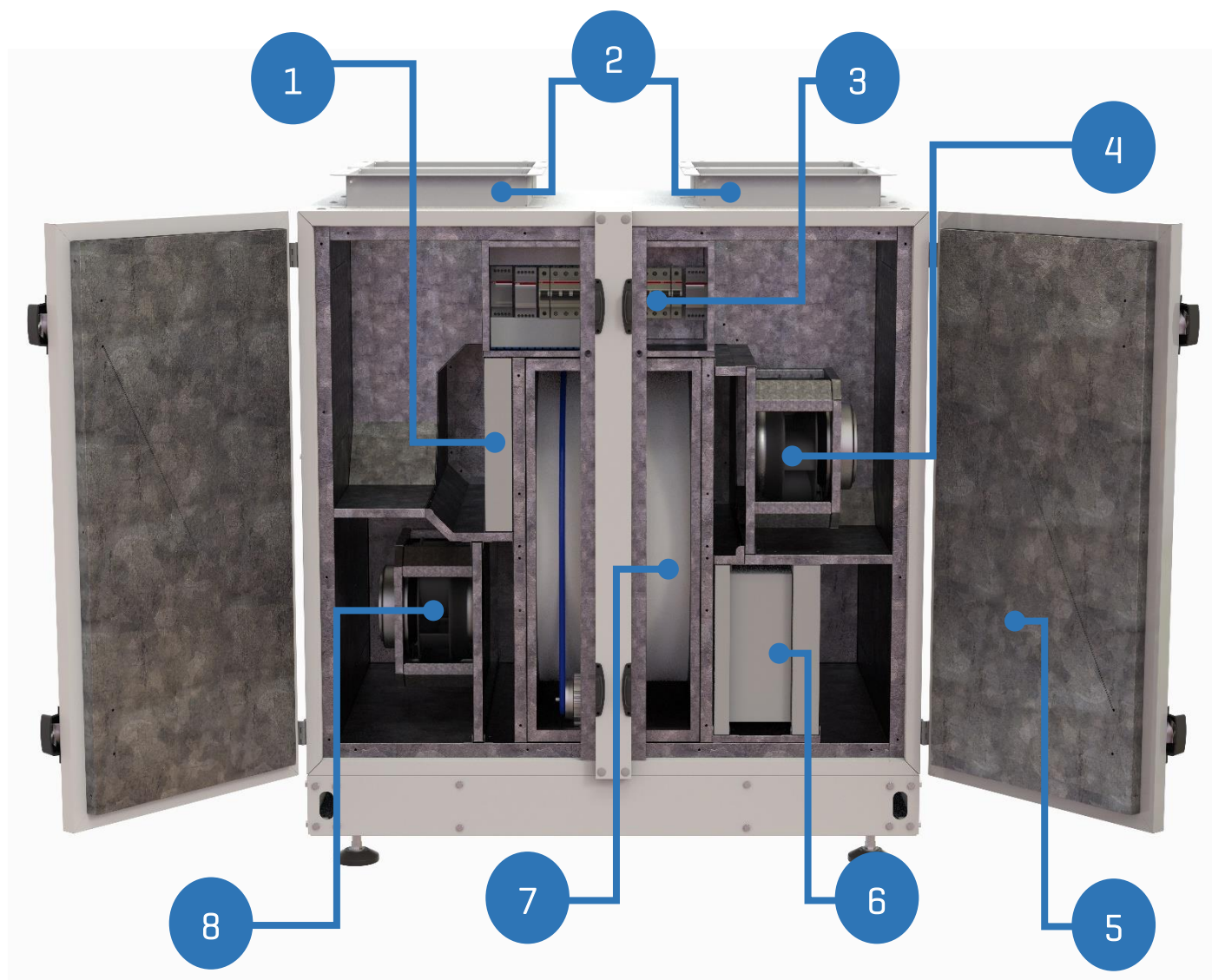
## Electrical Warnings

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- ⚠ The use of overcurrent fuse is recommended against voltage change for unit safety
- ⚠ Electrical wiring connections must be made according to the specified electrical wiring diagram.
- ⚠ This manual is contained the special electrical wiring diagram which show that how could electrical connections make. Electrical connections must be made according to this diagram.
- ⚠ The electrical connections, which to be made to the user panel from outside, must be according to the rules and directions.
- ⚠ It must be made sure that the voltage is within  $\pm 5\%$  tolerance of the tag value by using a voltmeter.

## 2. COMPONENTS

The unit is designed for recovering part of the energy of the exhausted air in a ventilation system. The recovered energy is directly transferred to the supplied fresh air, that reduces the necessary load on the air conditioning system.



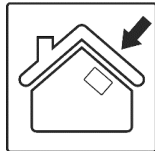
1-Exhaust Filters  
2-Duct Connections  
3-Control Panel  
4-Supply Fan

5-Service Door  
6-Supply Filters  
7-Rotary Energy Recovery  
8-Exhaust Fan

### 3. LABELING



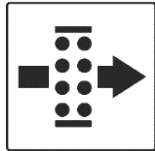
Return Air



Outside Air



Supply Air



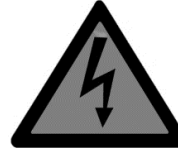
Filter



Exhaust Air



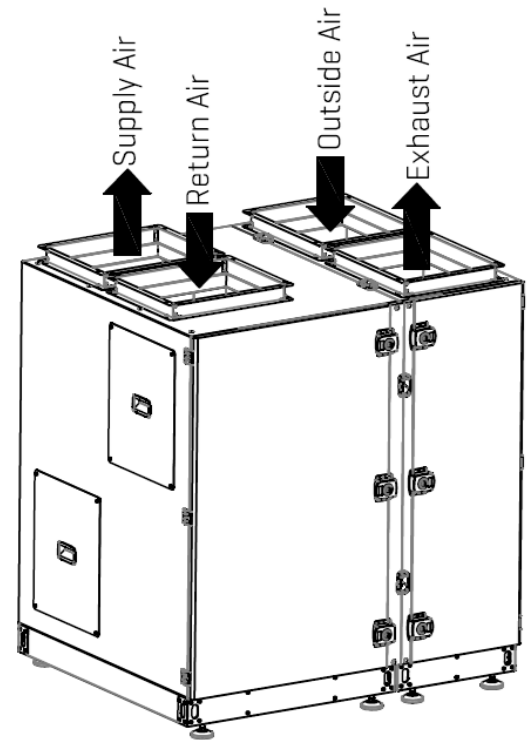
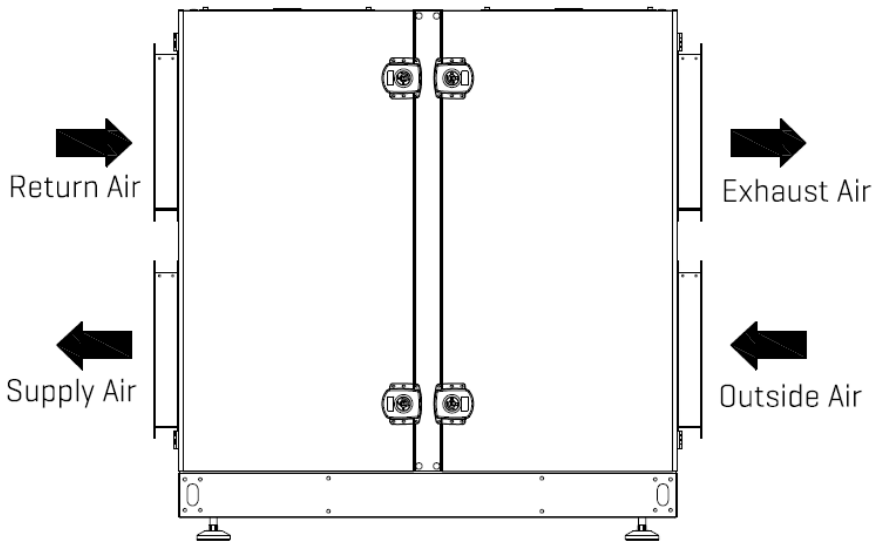
Drainage



Electric Panel



Air input & output directions:



## 4. TECHNICAL DATA

Models	Power [W]		Voltage [V] / Current [A]		RPM [1/min]	
	Supply Fan	Extract Fan	Supply Fan	Extract Fan	Supply Fan	Extract Fan
RTER 1000	170	170	230/1,4	230/1,4	2510	2510
RTER 1800	500	500	230/2,2	230/2,2	3740	3740
RTER 2500	660	660	230/2,9	230/2,9	2900	2900
RTER 3500	750	750	230/3,3	230/3,3	2100	2100
RTER 5000	1320	1320	380/2,1	380/2,1	2060	2060
RTER 7000	1850	1850	380/2,9	380/2,9	2180	2180
RTER 9000	2730	2730	380/4,2	380/4,2	2730	2730
RTER 11000	3510	3510	380/5,4	380/5,4	1910	1910
RTER 14000	4700	4700	380/7,3	380/7,3	1750	1750
RTER 20000	6750	6750	380/10,3	380/10,3	1500	1500

	RTER 1000	RTER 1800	RTER 2500	RTER 3500	RTER 5000	RTER 7000	RTER 9000	RTER 11000	RTER 14000	RTER 20000
Maximum Air Flow [m³/h]	1000	1800	2500	3500	5000	7000	9000	11000	14000	20000
P [External] [Pa]	0	0	0	0	0	0	0	0	0	0
Nominal Air Flow [m³/h]	880	1500	2000	2800	3900	5200	5900	7800	9500	15400
P [External] [Pa]	200	200	200	200	200	200	200	200	200	200

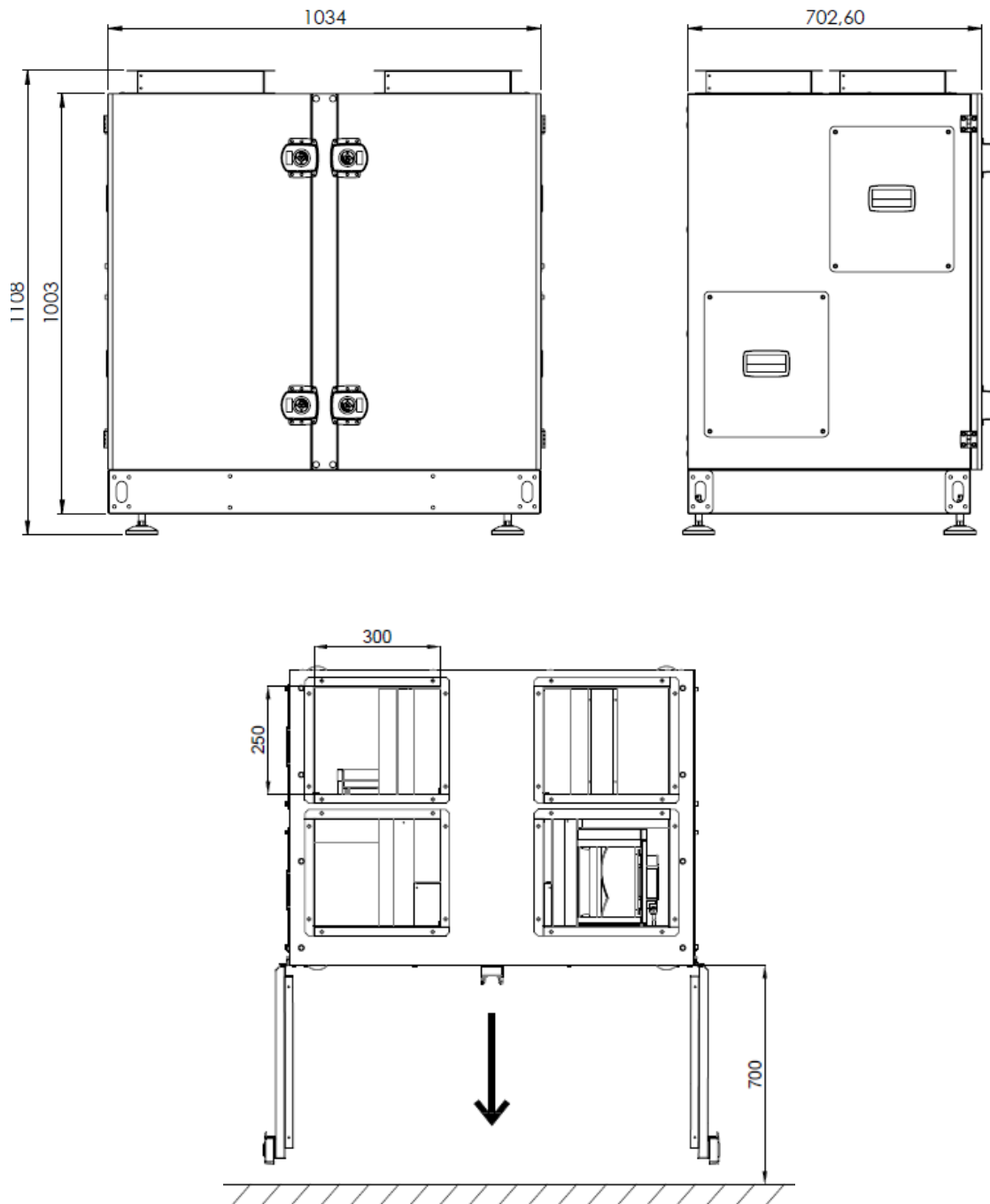
### Optional Electric Heater:

Models	Air Flow [m³/h]	Dimensions [mm]	ΔT=5	ΔT=10	ΔT=15
RTER 1000	880	300*250	2 kW	4 kW	6 kW
RTER 1800	1500	300*250	3 kW	6 kW	8 kW
RTER 2500	2200	350*300	4 kW	8 kW	12 kW
RTER 3500	2800	400*315	5 kW	10 kW	15 kW
RTER 5000	3900	460*375	7 kW	14 kW	21 kW
RTER 7000	5200	500*490	10 kW	19 kW	28 kW
RTER 9000	5900	500*550	11 kW	21 kW	32 kW
RTER 11000	7800	550*610	14 kW	28 kW	42 kW
RTER 14000	9500	670*700	17 kW	37 kW	51 kW
RTER 20000	15400	980*880	28 kW	56 kW	83 kW

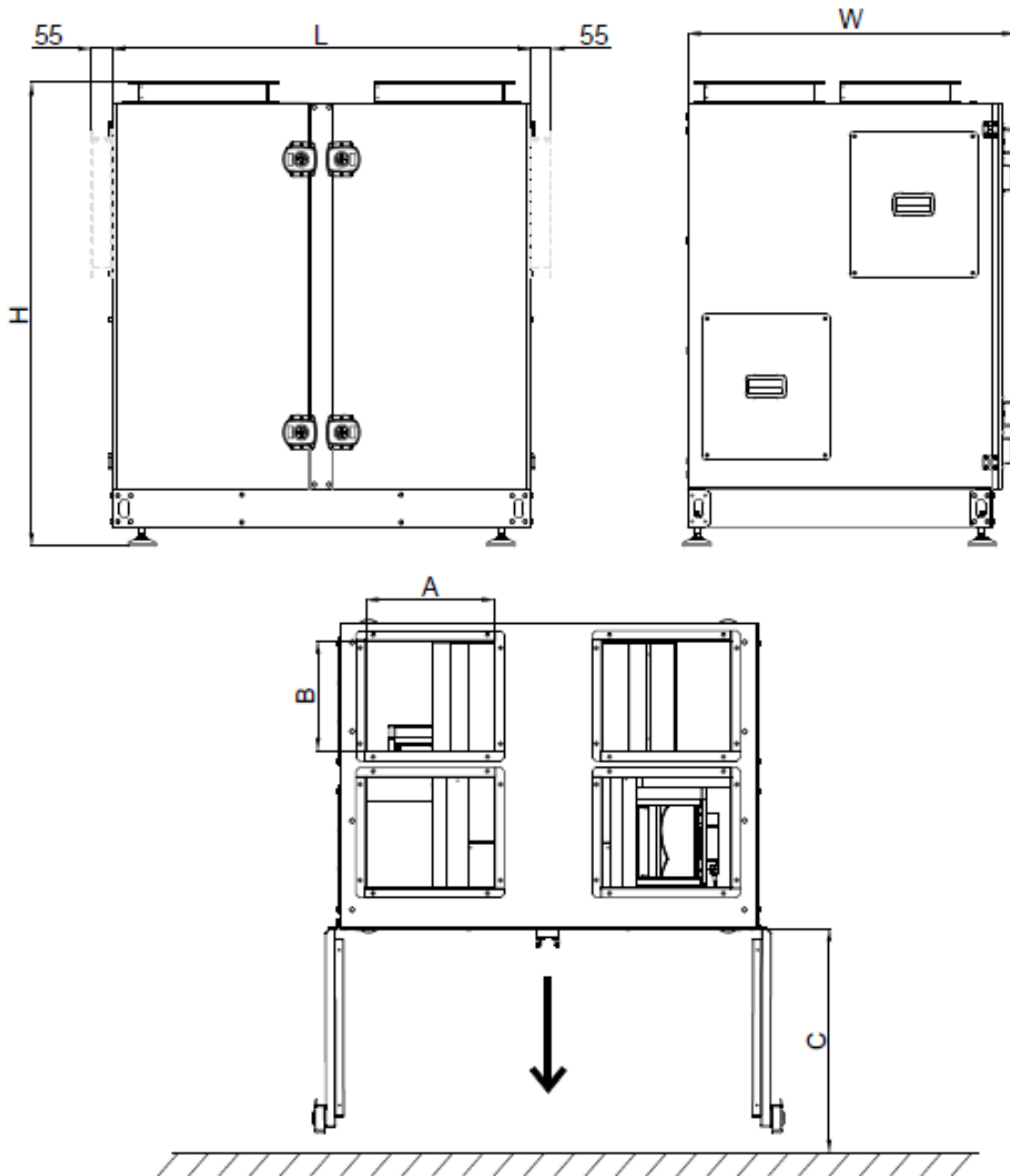


## 5. DIMENSIONS

RTER 1000:

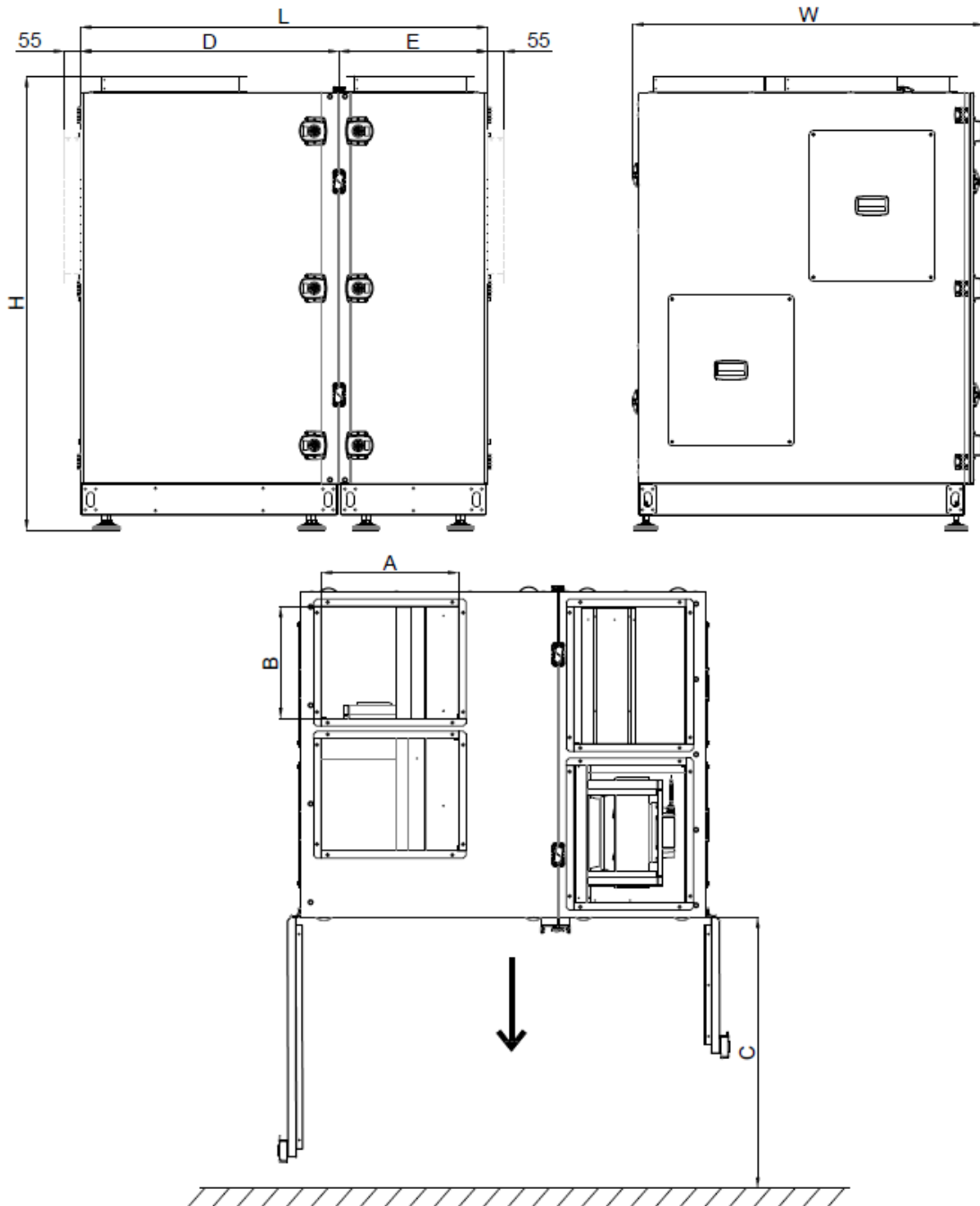


RTER 1800 / 2500:



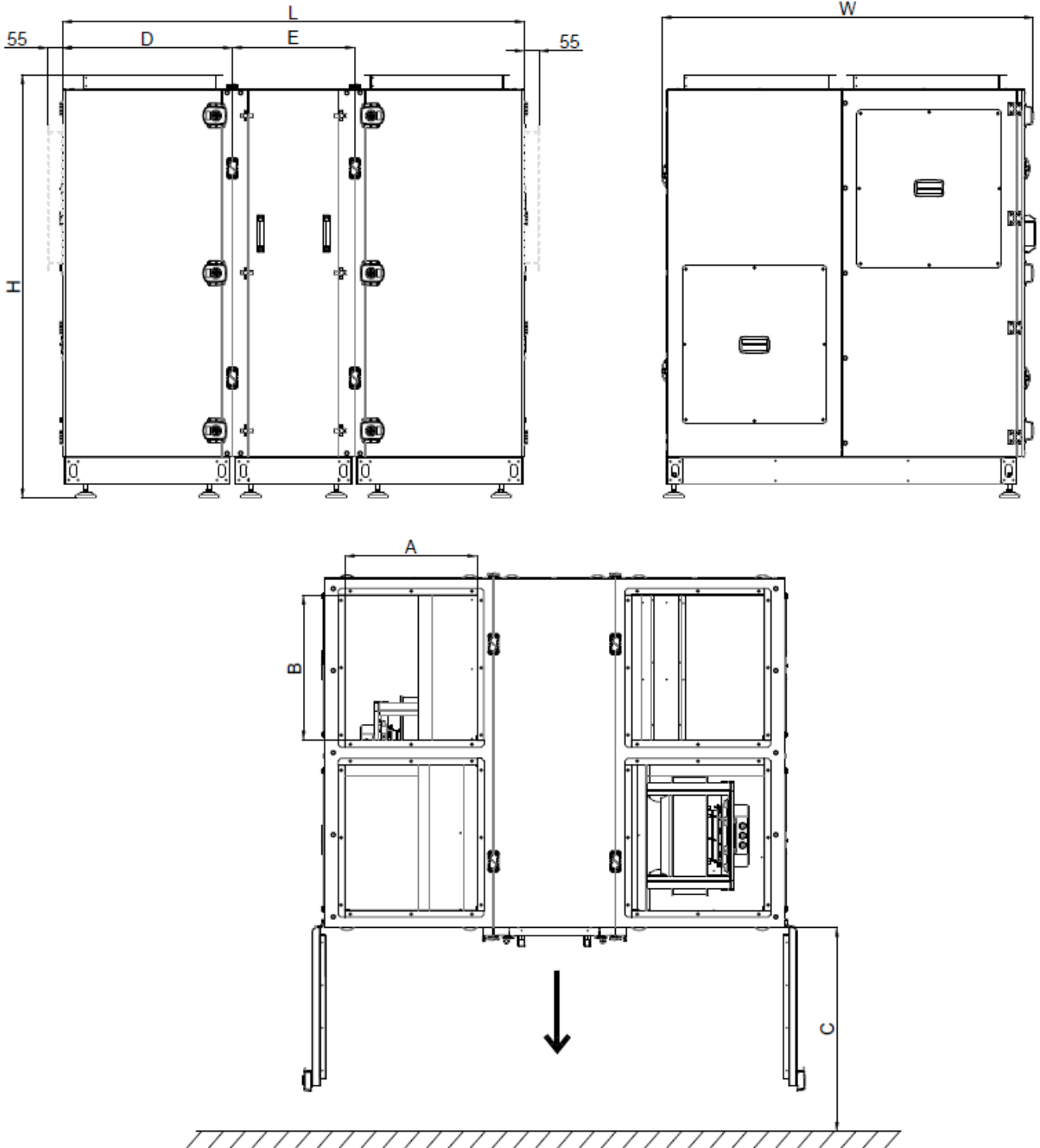
Capacity	L	W	H	A	B	C
RTER 1800	1034	785	1160	300	250	750
RTER 2500	1134	885	1258	350	300	850

RTER 3500 / 5000:



Capacity	L	W	H	A	B	C	D	E
RTER 3500	1315	1060	1410	400	315	1000	840	500
RTER 5000	1370	1180	1530	460	375	1120	870	525

RTER 7000 / 9000 / 11000 / 14000 / 20000:



Capacity	L	W	H	A	B	C	D	E
RTER 7000	1755	1290	1485	500	490	1230	675	485
RTER 9000	1755	1410	1605	500	550	1350	675	485
RTER 11000	1855	1535	1730	550	610	1475	720	485
RTER 14000	2190	1660	1855	670	700	1600	870	530
RTER 20000	2730	2085	2280	980	880	1725	1140	530

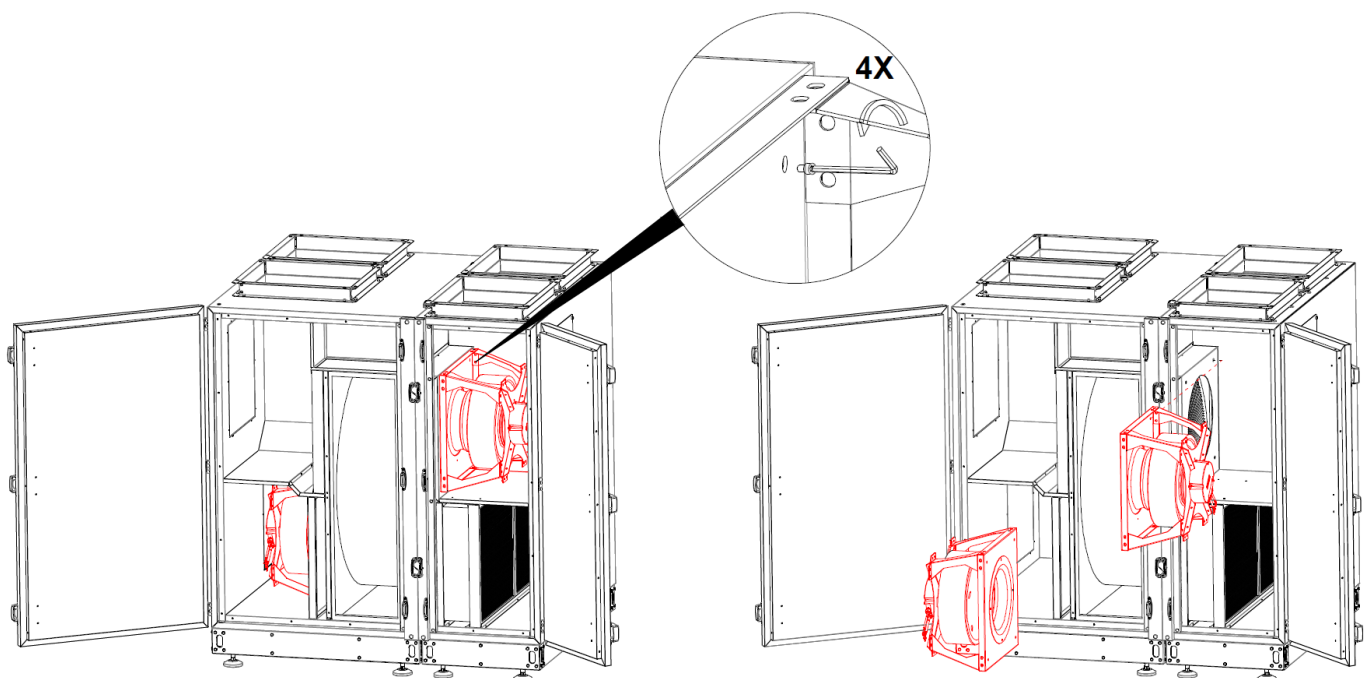
## 6. INSTALLATION & MAINTENANCE

The installation and maintenance operations of the unit should be made the regulations, which are within the manual, for to ensure optimum ventilation of the room.

### *Electrical Connections Warning!!!*

*Mains supply voltages (230 V AC) are present in this equipment which may cause death or serious injury by electric shock. Only a qualified electrician or installer should connect the power supply to this unit. This unit must be correctly earthed. Do not connect any accessories or ancillaries, such as the controller or any additional sensors unless the unit is down powered and isolated from mains electricity supply.*

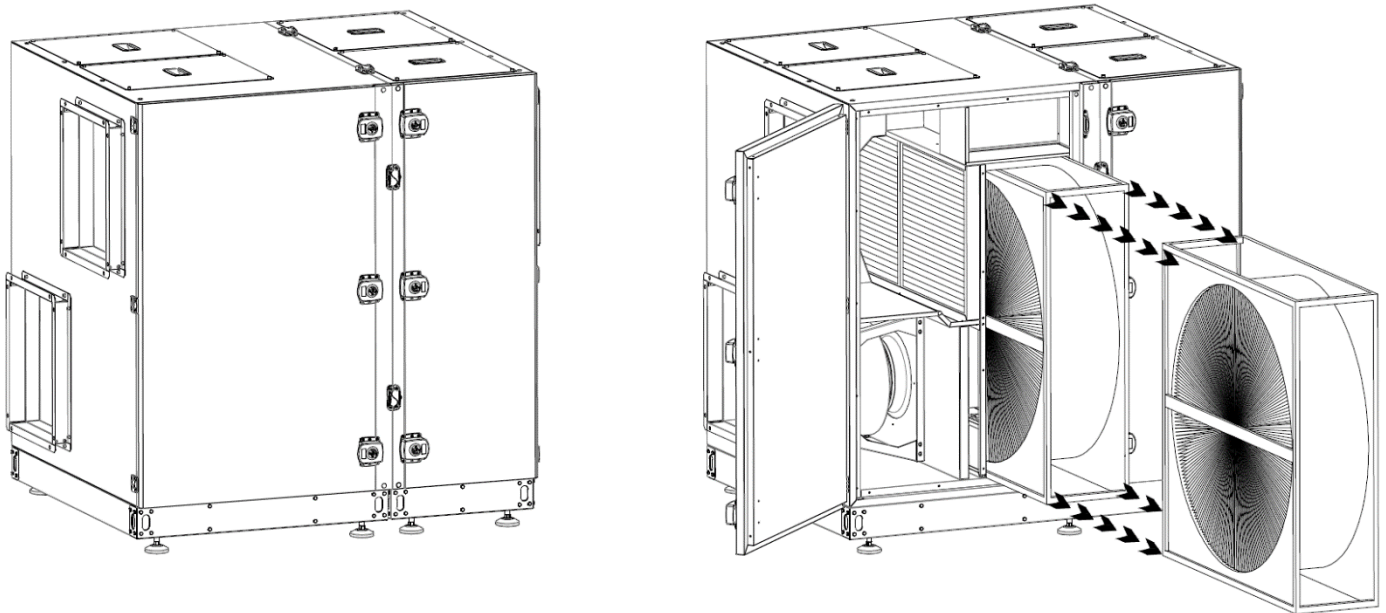
### 6.1. Fan Installation and Maintenance



The fan installation and maintenance operations must be made only by authorized personnel in necessary situations, which following below directives.

- Shut off the electric before any operation.
- Open the service doors from the door hinges.
- Dismantle the socket with allen wrench like shown above figure.
- Remove the fans from area where fixed to the case of the unit.
- Do the installation by following the same procedures backwards.

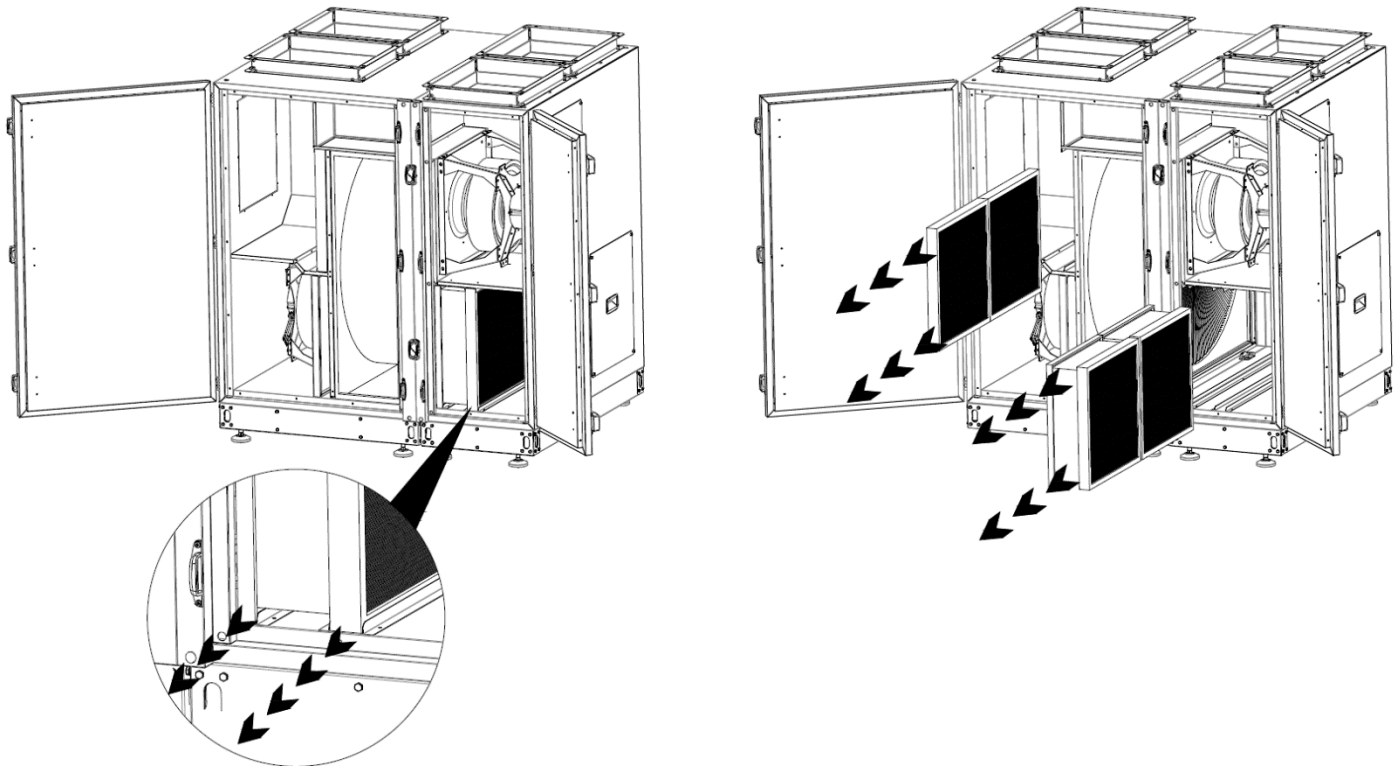
## 6.2. Rotor Installation and Maintenance



The rotor installation and maintenance operations must be made only by authorized personnel in necessary situations, which following below directives.

- Shut off the electric before any operation.
- Open the service doors from the door hinges.
- Pull the rotor base from its chamber like shown above figure.
- If necessary, can do the cleaning on removed rotor.
- Use compressed air for the cleaning.
- Do not use corrosive, chemical material and detergent for the cleaning.
- Do not apply force on the rotor surface during the cleaning.

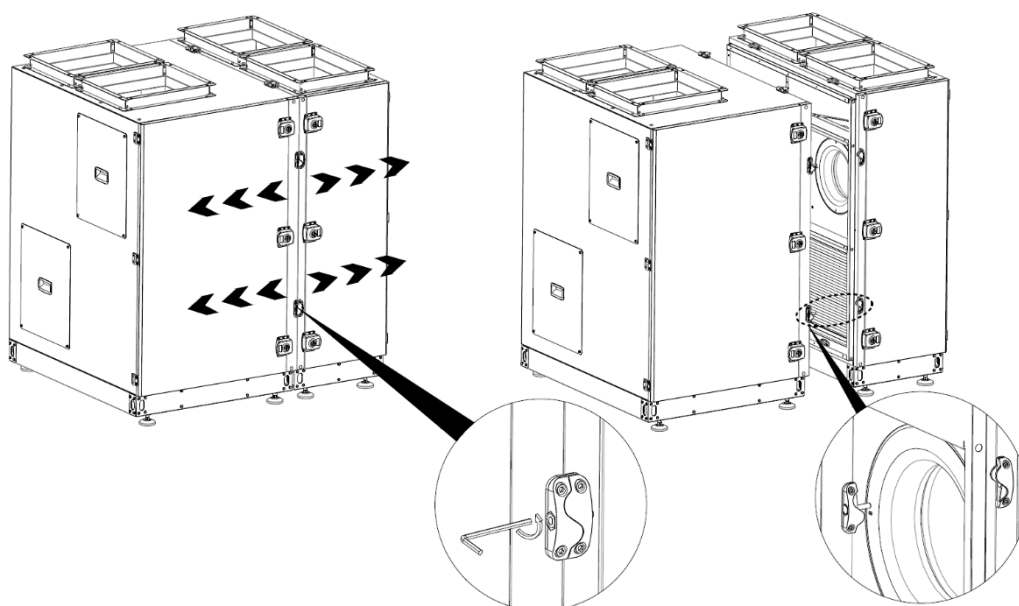
### 6.3. Filter Installation and Maintenance



Follow below directives if requested the filters changing, cleaning or installation:

- Shut off the electric of unit before starting-up any operation.
- Open the service doors from the door hinges.
- Remove the filter like shown above figures.
- Do not wash the filter.
- Clean the filters with gently vacuum.
- Must change after 3 cleaning.
- Change the filter if pores have damaged.
- Do not clean to F filters, directly replaced.
- Do not apply force for the cleaning.
- Place and push the filter on the slideway for the reinstallation.

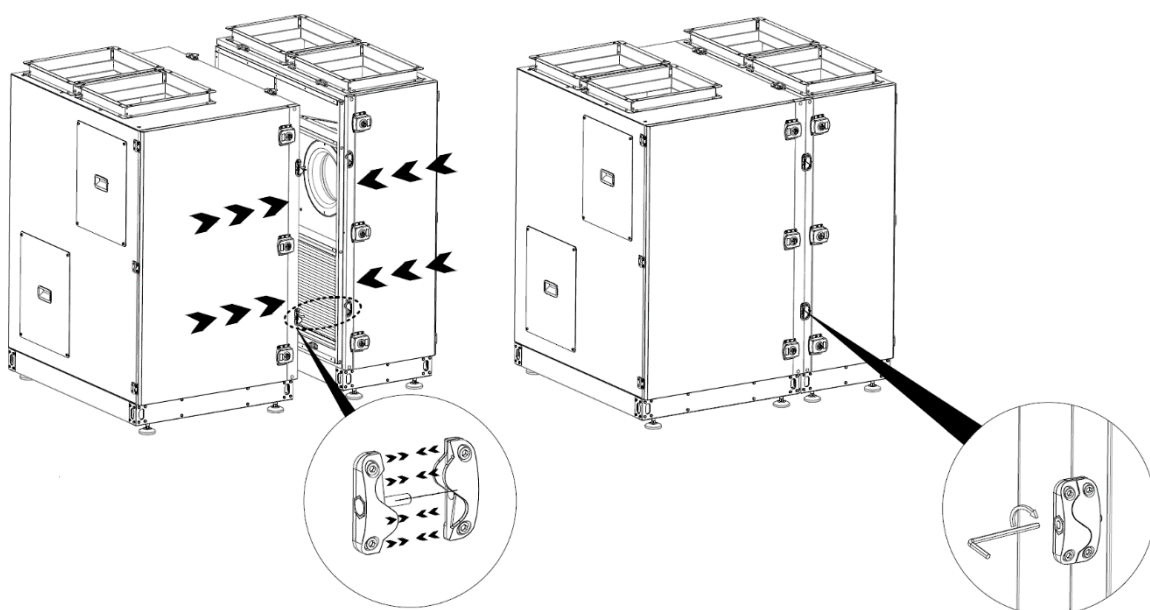
## 6.4. Disassembly of The Unit Modules



Follow below directives which is used for disassembly of the unit modules:

- Shut off the electric of the unit before start-up to any operation.
- Dismantle the socket, which is on all the connection module of the unit, with allen wrench like shown above figure.
- Separate the modules from each other.

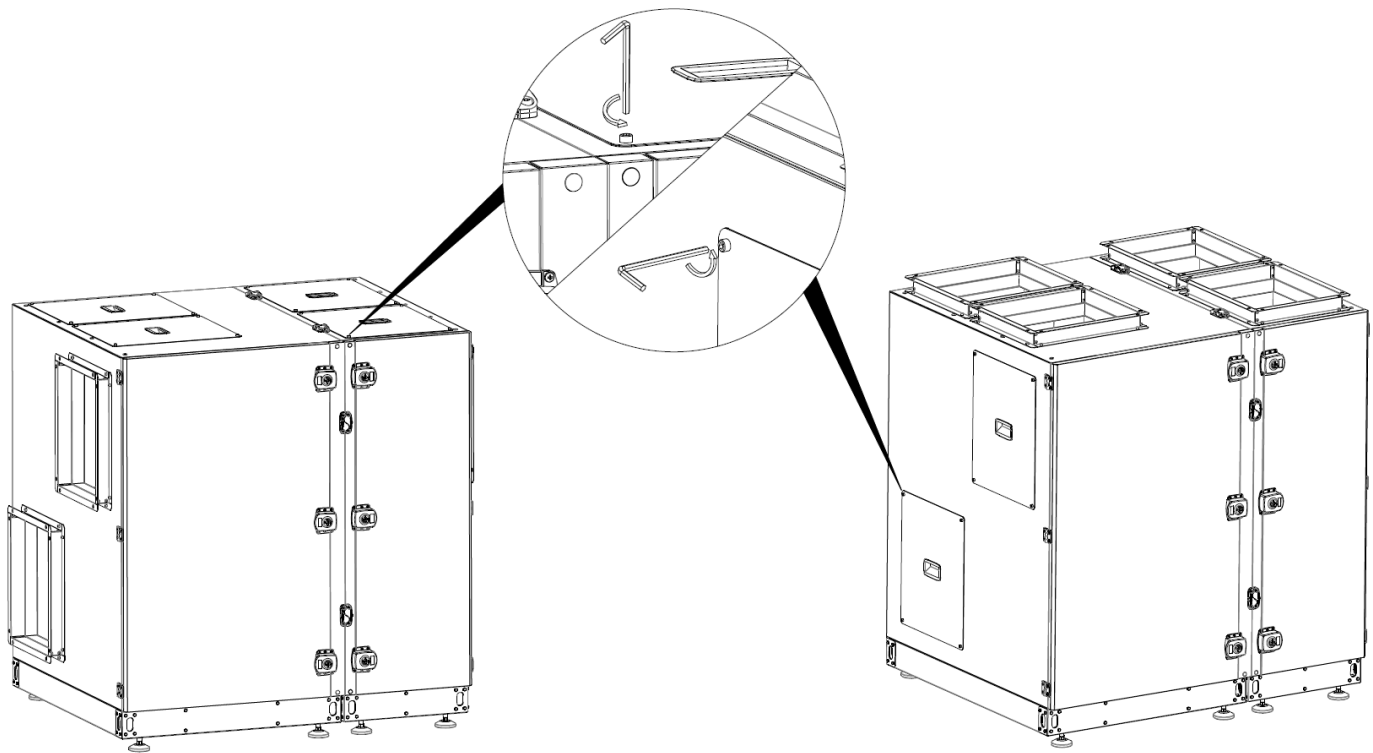
## 6.5. Assembly of The Unit Modules



- Follow below directives which is used for assembly of the unit modules:
- Assemble the contact surfaces and the connection parts of the unit modules.
- Check the sockets of the connection parts as the whether same center line.
- Screw all the socket.

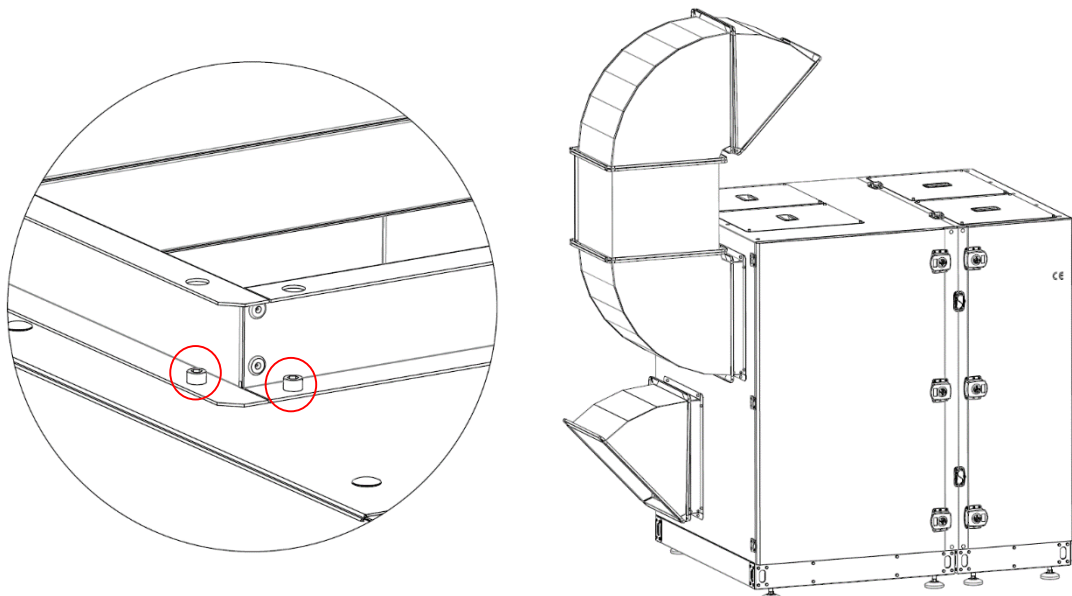


## 6.6. Top or Side Switchable Direction



In all models, there are top and side switchable direction options. Thus, air duct connection can be connected as required. Follow below directives for changing to the air duct directions:

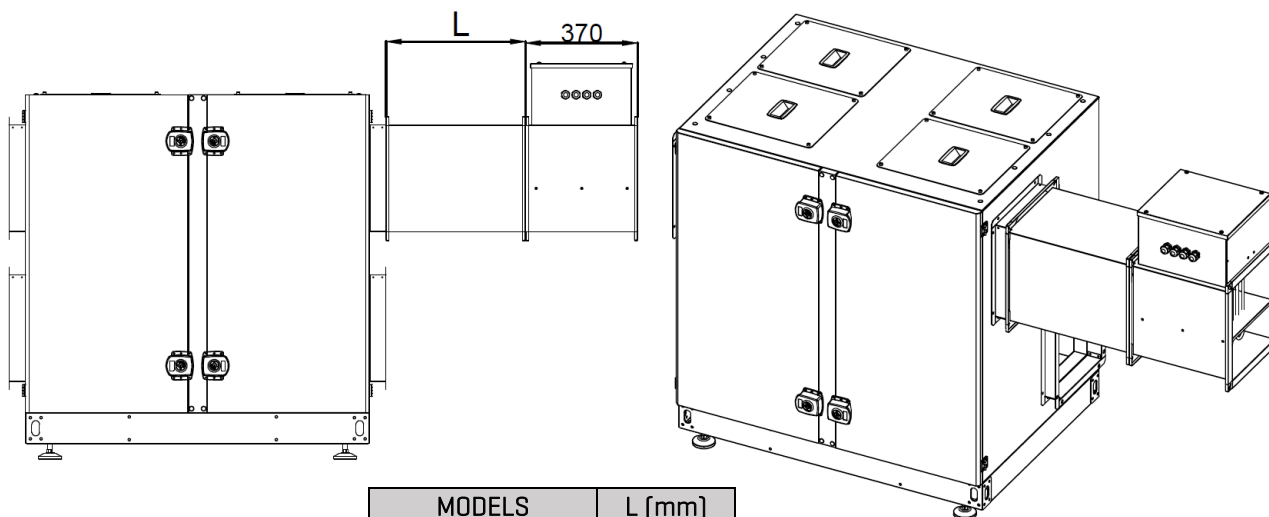
- Turn off the unit and the power of unit.
- Dismantle the socket, which is placed on top or side direction panel, with allen wrench like shown above figures.
- Remove the air duct connection parts in the same way.
- Change place the top and side direction.
- Do the installation by following the same procedures backwards.
- Connect the air duct to desired direction of the unit.



## 6.7. Additional Electric Heater Option

Electrical heaters are used optionally in all series of RTER units. Since the electrical heater complete installation and connections are already made, there is no need for an additional installation or connection.

- The power to the device should be cut off during all maintenance works.
- Before all periodical maintenances, the fan in the system should be operated for at least two more minutes after the power supplied to the device is turned off.
- The device should be assembled at a distance at least 2 times more than the connection diameter for round channel type models and at the level of the diagonal of the channel section for rectangular channel type models for the electric heater will be mounted after the unit.
- The cables and all wiring used should be in compliance with the specifications of the device.
- The connections of the cables of equipment to be wired to the device should be performed making sure that the cables do not damage the device.
- The amperage drawn by the device should be measured once a year as a precaution against electrical leakage and high amperage drawing.
- The frame of the device should be visually controlled once a year to check corrosions, decay, impacts or wearing.
- The heating coil should be cleaned using compressed air or with a nonabrasive brush once a year against accumulation of dust and dirt.

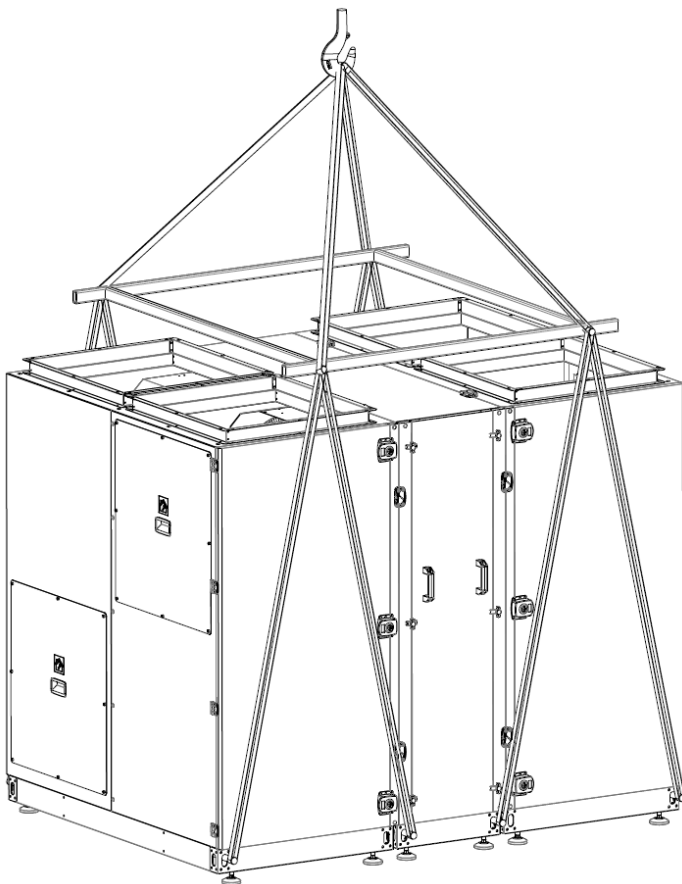


MODELS	L [mm]
RTER 1000	390
RTER 1800	400
RTER 2500	460
RTER 3500	510
RTER 5000	600
RTER 7000	700
RTER 9000	750
RTER 11000	820
RTER 14000	970
RTER 20000	1320

*\*All the depth values of the electric heaters are 370 mm.*

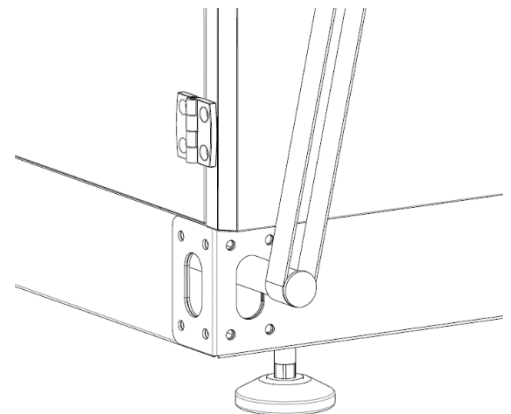
## 6.8. Transportation and Lifting

- Before moving the unit, make sure that all panels are fixed properly.
- Always transport the unit in its original packaging to the place of installation.
- Do not lift the unit when it is windy and while a personnel is working under the unit.
- Use lifting chain as shown below.
- Make sure that the unit is balanced, stable and without any deformations during lifting operations.
- For your safety, when unit is lifted up, you may use appropriate equipment method such as belts, straps.
- Not lifting the unit properly may cause serious injury even death.



### *CAUTION!*

*Use the lifting bars like shown figure for the weight of unit is evenly distributed with lifting bars. Make sur that the carrying ropes are adequately sturdy.*



## 6.9. Electrical Connections

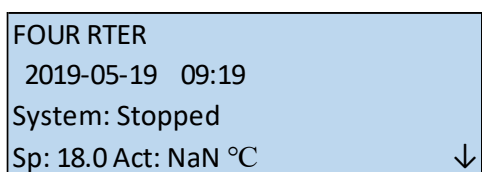
- Switch off the main switch of power supply before any operating.
- The unit power supply shall be within 10% of volts indicated on the unit nameplate. Damage caused by the start-up of the unit with an incorrect voltage line will not be covered by the Doğu's warranty.
- Always refer to the unit wiring diagram when completing electrical connections.
- The electrical wiring connections and the line protection devices must be installed by the installer according to the current local laws.
- The interconnecting wires shall be protected in a tube or an electrical cable conduit, cable tray, etc.

## 7. CONTROL PANEL

### 7.1. Display buttons and LEDs

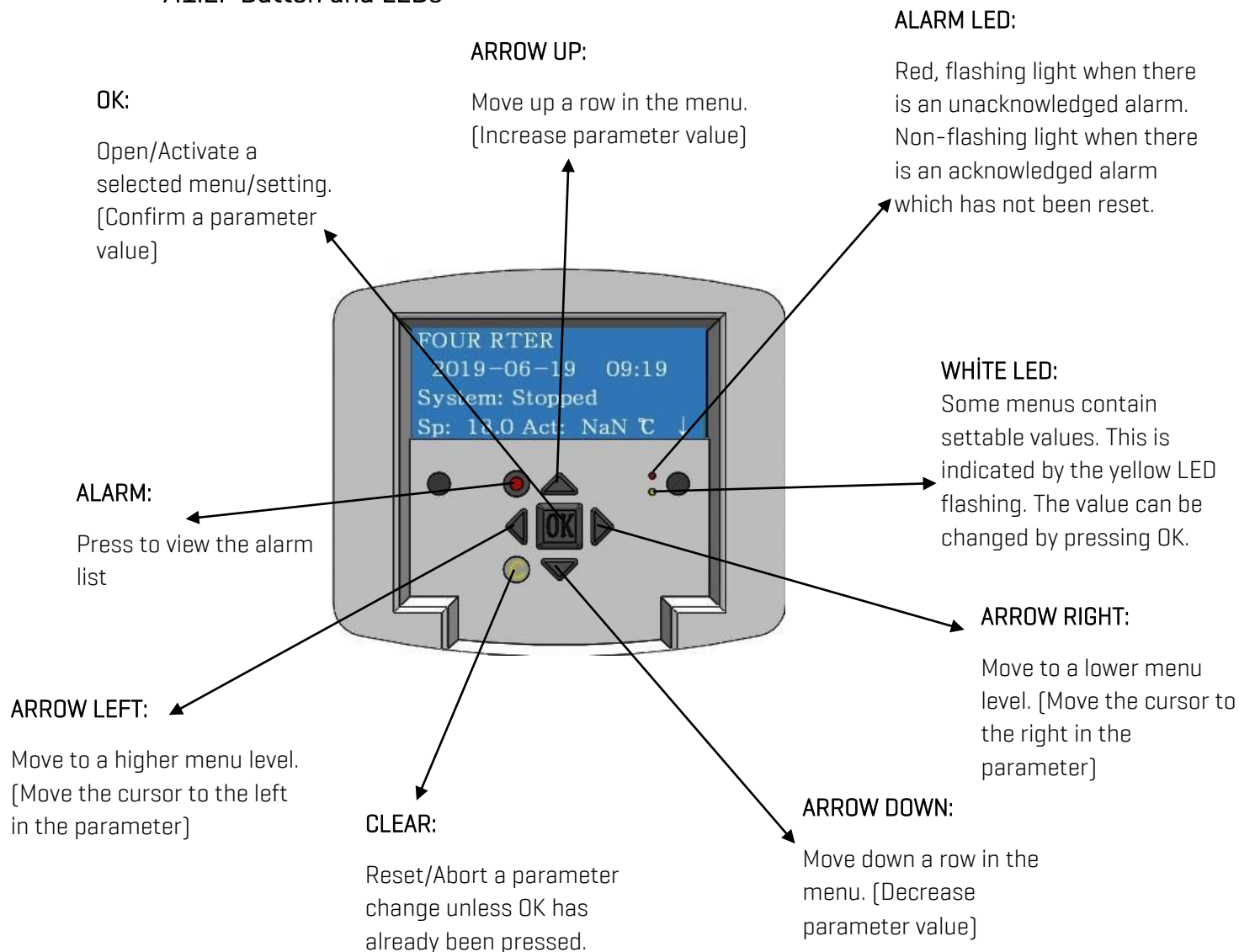
This section is applicable to Corrigo units with display and buttons but also to the hand terminal E3-DSP. For third generation controllers, it is also possible to connect an external display to units that are equipped with a display and buttons.

#### 7.1.1. Display



The display has 4 rows of 20 characters. It has background illumination. The illumination is normally off, but is activated as soon as a button is pressed. The illumination will be turned off again after a period of inactivity.

#### 7.1.2. Button and LEDs



## 7.2. The Menu System

### 7.2.1. Navigating The Menus

```
FOUR RTER
17.05.2019 08:04
System: Stopped
Sp: 18.0 Act: NaN °C↓
```

The display to the left is normally shown at start-up and is located at the basic level of the menu tree. The appearance of the start display may vary since there are 5 types to choose from during configuration.

The text in the first row can also be changed using E tool®. Sp and Av are set point and actual value for the supply air controller. This also applies when using cascaded room temperature or extract air temperature control. Actual value = The current measured temperature. Set point value = The desired configured temperature. Pressing ARROW DOWN will move you through the menu choices at this, the lowest level. ARROW UP will move you back through the choices. Which menus are shown depends on which access level you are using [see the section Access rights for more information about logging on to higher levels]. The basic access level, the level normally active when you have not logged on, only shows a limited number of menus and submenus:

### 7.2.2. Running Mode

Here, you can view and set the unit's running mode, as well as view selected control functions and alarm events.

#### 7.2.2.1. Temperature, Air Control and Humidity Control

Here, relevant values and set point values are displayed. Set points can only be changed if you have Operator access or higher.

#### 7.2.2.2. Time Settings

Here, the time, date and set running times are shown. Values can only be changed if you have Operator access or higher.

#### 7.2.2.3. Access Right

Here, you can log on to a higher level, log off to the basic level and change the password.

```
Running Mode
Temperature
Air Control
Humidity
Time Settings
Configuration
Access Rights
```

A user with Normal access, the basic level, can view a limited selection of menus. The unit's running mode can be changed and alarms acknowledged. If you have Operator access, you can access more information and change other operation parameters like set points and time functions.

To get to the next menu level, use ARROW UP and ARROW DOWN to place the display marker opposite the menu you wish to access and press ARROW RIGHT. If you have sufficient log on privileges the display will

change to the menu you have chosen. At each level there may be several new menus through which you may move using the

ARROW UP and ARROW DOWN buttons. There are sometimes further submenus linked to a menu or menu item. This is indicated by

an arrow symbol at the right-hand edge of the display. To choose one, use ARROW RIGHT again. To go to a previous menu level, press ARROW LEFT.

#### 7.2.2.4. Change Parameters

In some menus there are parameters that can be set. This is indicated by the yellow LED with ⊗ flashing.

A quick blinking [2 times/s] indicates that the parameter can be changed using the present user access.

A slower blinking [1 time/s] indicates that a higher user access is required to change the parameter.

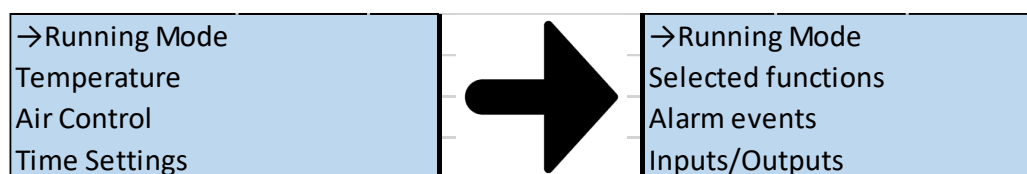
To change a parameter, first press the OK button. If you need a higher user access than you have to change the parameter, a log on menu will be displayed, see below. Otherwise, a cursor will appear at the first settable value. If you wish to change the value, do so by pressing the ARROW UP and ARROW DOWN buttons.

In numbers containing several digits you can move between the digits using the ARROW LEFT/RIGHT buttons. When the desired value is displayed press OK.

If there are further settable values displayed the cursor will automatically move to the next one. To pass a value without changing it, press RIGHT.

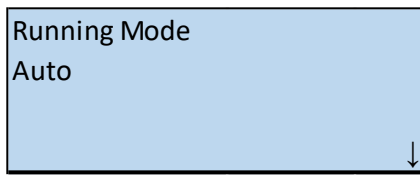
To abort a change and return to the initial setting, press and hold the C-button until the cursor disappears. Collected here are a number of menus showing running mode, selected functions, alarm events and status of inputs and outputs.

### 7.3. Running Mode



### 7.3.1. Running Mode Unit

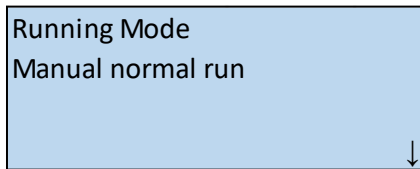
The unit's running mode can be changed without logging on.



The running mode can be set to Auto, Off, Manual reduced run or Manual normal run.

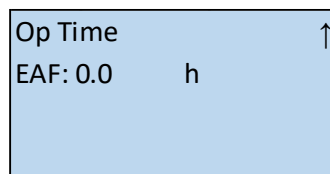
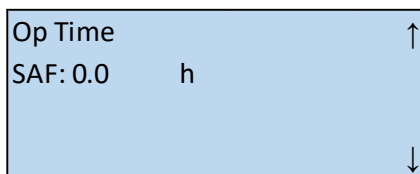
The Auto mode should normally be used.

Off can be used to stop the unit for service and similar.



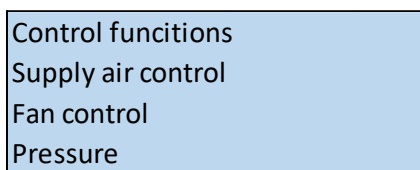
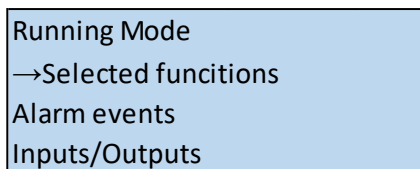
Manual normal run or Manual reduced run will start the unit even if the timer says that the running mode should be "Off".

If the running mode is set to Off, Manual normal run or Manual reduced run, a C alarm is activated: Running mode Manual. The alarm automatically resets when the running mode is set to Auto again.

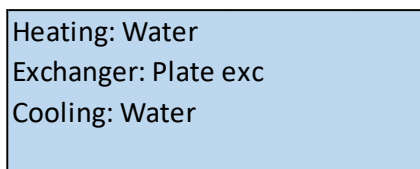


Shows the accumulated running times for the fans.

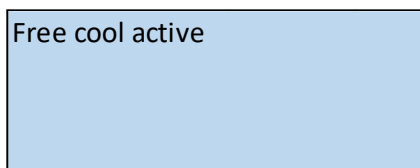
### 7.3.2. Selected Functions



In these menus, you can see how some of the most important functions have been configured. Changes cannot be made.



Heater, exchanger and cooling type. If one of the functions is not used, it will be shown as "Not used".



This function is used during the summer to cool the building night-time using cool outdoor air, thereby reducing the need for cooling during the day and saving energy.

Support control  
Active: Yes  
CO<sub>2</sub>/VOC active  
If timer on

Support control is used for adjusting the room temperature outside of the normal running time. If there is a heating or cooling demand in the room, the unit will start and the temperature will be adjusted.

Fire damper function  
Not Active  
Operation when alarm  
Stopped

The fire function determines the settings for the fire dampers and the unit's running mode when a fire alarm is activated.

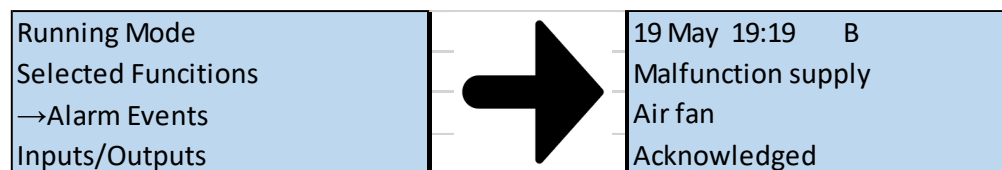
Frost protection  
Active  
Cooling Recovery  
Not Active

Frost protection is normally always used in water heating systems. The cooling recovery function starts the heat exchanger in order to return cooling from the extract air when the extract air is colder than the outdoor air and cooling is required.

External set point  
Not active

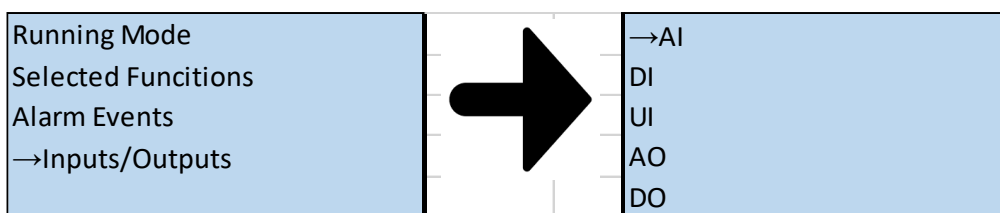
An analogue input can be configured for an external set point device e.g. TG-R4/PT1000

### 7.3.3. Alarm Events



Alarm log, containing the 40 latest alarm events. The most recent event is listed first. The alarm log can only be used for viewing the alarm history. Alarms are handled in a special area, see the section Alarm handling.

### 7.3.4. Inputs/Outputs



These menus show the current values for all configured inputs and outputs. These are read-only menus. No changes can be made here. Universal inputs can be configured as either analogue or digital inputs. Analogue inputs and digital outputs are shown here as examples.



### 7.3.5. Temperature

Running mode  
 →Temperature  
 Air control  
 Time settings

Here you can view all actual and set point values for temperature control. The menu is visible to all users, regardless of log on level. However, to make changes you need at least Operator authority. Only menus for activated functions will be shown.

### 7.3.6. Setpoint Supply Air Temperature Control

Outd temp: NaN °C  
 Supply air temp  
 Act: NaN °C    Setp→  
 Setp: 18.0 °C

Here, actual and set point values are shown, as well as the outdoor temperature if an outdoor sensor has been configured. This is a read-only menu. No settings can be made here.

Supply air temp  
 Act: 18.0 °C

Submenu: Set point. No settings can be made here.

## 7.4. Air Control

Running Control  
 Temperature  
 →Air Control  
 Time Settings

This menu is only shown if frequency controlled fans have been configured.

Depending on the choice of fan control, different combinations of the menus below will be shown.

### 7.4.1. Manual Frequency Control SAF and EAF

Frequency Control  
 manual SAF  
 Output: 0 %

→ Frequency control  
 manual SAF  
 Output 1/1: 75 %  
 Output 1/2: 75 %

Here, Actual and Set point values are displayed. This is a readonly menu. No settings can be made here.

Frequency Control  
 manual EAF  
 Output: 0 %

↑ Frequency control  
 manual EAF  
 Output 1/1: 75 %  
 Output 1/2: 75 %

Submenu Set point values for normal speed [1/1] and reduced speed [1/2]. The set point is set in % of the full output. 100 % = 10 V output signal.

## 7.4.2. Time Settings

### 7.4.2.1. General

Time/Date
Timer normal speed
Timer reduced speed
Extended running
Timer output1 →
Timer output2 →
Timer output3 →
Timer output4 →
Timer output5 →
Holidays →

Corrigo has a year-base clock function. This means that a week-schedule with holiday periods for a full year can be set. The clock has an automatic summertime/wintertime change-over.

Individual schedules for each week-day plus a separate holiday setting. Up to 24 individual holiday periods can be configured. A holiday period can be anything from one day up to 365 days. Holiday schedules take precedence over other schedules.

Each day has up to two individual running periods. For two-speed fans and pressure controlled fans there are daily individual schedules for normal speed and reduced speed, each with up to two running periods.

Up to 5 digital outputs can be used as timer controlled outputs. Each with individual week schedules with two activation periods per day. These outputs can be used to control lighting, door locks etc. Only outputs which have been configured will be shown. Timer output 5 can be used to control a recirculation function.

### 7.4.3. Time Date

Normal speed
Monday
Per 1: 07:00 - 16:00
Per 2: 22:00 - 00:00

These settings will be ignored if single speed fans are configured.

Should periods for normal speed and periods for reduced speed overlap, normal speed takes precedence.

Structure and function is otherwise identical with Timer Normal speed.

### 7.4.4. Access Rights

Temperature
Air control
Time settings
→Access rights

There are four different access levels, Normal level which has the lowest access and does not require logging on, Operator level, Service level and Admin level which has the highest access. The choice of access level determines which menus are shown, as well as which parameters can be changed in the displayed menus.

The basic level only permits changes in Running mode and gives read-only access to a limited number of menus.

Operator level gives access to all menus except Configuration.

Service level gives access to all menus except the submenus Configuration/In- and Outputs and Configuration/System.

Admin level gives full read/write access to all settings and parameters in all menus.

→Log on
Log off
Change password

Repeatedly press down-arrow when the start-up display is shown until the arrow-marker to the left of the text-list points to Access rights. Press RIGHT.

### 7.4.4.1. Log On

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

In this menu it is possible to log on to any access level by entering the appropriate 4-digit code. The log on menu will also be displayed should you try to gain access to a menu or try to do an operation requiring higher authority than you have.

Press the OK button and a cursor marker will appear at the first digit position. Repeatedly press the UP button until the correct digit is displayed. Press the RIGHT button to move to the next position. Repeat the procedure until all four digits are displayed. Then press OK to confirm. After a short while the text on the line: Present level will change to display the new log on level. Press the LEFT button to leave the menu.

Factory set passwords:

Admin: 1111

Service: 2222

Operator: 3333

Normal: 5555

### 7.4.4.2. Log Off

Log off?  
 No  
 Actual level: Admin

Use this menu to log off from the present level to the basic "no-log on" level.

### 7.4.4.3. Automatic Log Off

If the access level is Operator, Service or Admin, the user will automatically be logged off to Normal after a settable time of inactivity. The time is settable.

### 7.4.4.4. Change Password

Change password for  
 level: Operator  
 New password: \*\*\*\*

You can only change the password for access levels lower or equal to the presently active level.

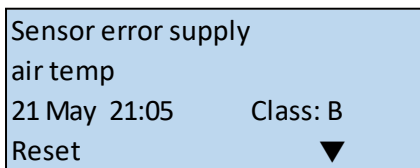
## 7.5. Other Functions

### 7.5.1. Alarm Handling

If an alarm condition occurs, the red alarm LED on the front panel of units with display or the alarm LED on a connected display unit will start flashing. The LED will continue to flash as long as there are unacknowledged alarms.

Alarms are logged in the alarm list. The list shows type of alarm, date and time for the alarm and the alarm class (A, B or C alarm).

To access the alarm list, press the alarm button, the front panel button with the red button top.



If there are multiple alarms, this is indicated by up / down arrow symbols at the right-hand edge of the display.

Use the UP and DOWN buttons to access the other alarms.

At the left end of the bottom display line the alarm status is shown. For active, unacknowledged alarms the space is blank. Alarms that have been reset will be indicated by the text Acknowledged. Still active or blocked alarms are indicated by the text Acknowledged or Blocked.

Alarms are acknowledged by pressing the OK button. You are then given the choice of acknowledging the alarm or blocking the alarm

Acknowledged alarms will remain on the alarm list until the alarm input signal resets.

Blocked alarms remain on the alarm list until the alarm has reset and the block has been removed. New alarms of the same type will not be activated as long as the block remains.

Since blocking alarms can be potentially hazardous, you need a high log on authority to block alarms.

Class A and B alarms will activate alarm output(s) if these have been configured.

Class C alarms do not activate the alarm output(s).

Class C alarms are removed from the alarm list when the alarm input resets even if the alarm has not been acknowledged.

### 7.5.2. Free Text

If RIGHT is pressed once when the start menu is shown, a menu is shown in which it is possible to enter any text of your choice. This text can be used to show information concerning the commissioning company, name and phone number to service personnel etc. The easiest way to enter text is to use E tool©, but the buttons can also be used. Up to 4 lines of 20 characters each can be entered.

### 7.5.3. Revision Numbers

If RIGHT is pressed twice when the start menu is shown, a menu is displayed showing the program revision number, its date of release and ID number.

### 7.5.4. Language



If RIGHT is pressed three times when the start menu is shown, a menu is displayed in which the language can be changed.

The different language files are stored in the application memory and are downloaded to the work memory. If a Corrigo has been reloaded with a program revision newer than the factory revision using E tool©, the controller will not allow language files to be downloaded from the application memory. This is because there is a risk that the language files are not compatible with the new revision. Therefore, you are limited to the two languages you have downloaded using E tool©.

### 7.5.5. Indication LEDs

Status indication can be found in the upper left corner of the controller. For controllers with display, the alarm indication and change mode LEDs are located in the keypad area.

### 7.5.6. Status Indication

Designation	Colour	Description
Tx	Green	Port 1/2, transmitting
Rx	Green	Port 1/2, receiving
Serv (...Lon models)	Yellow	Service LED LON, commissioning
LAN (...W models)	Yellow /Green	Green: Connected to other network equipment
		Blinking green: Network traffic Blinking yellow: For identifying
P/H (Power/Battery)	Green/Red	Power on/Battery error
<b>Controllers with built-in display</b>		
	Red	Alarm indication. Flashing: There are unacknowledged alarms. Fixed: There are alarms which have been acknowledged but where the fault remains.
	Yellow	Change mode. Flashing rapidly: The display contains changeable values. Flashing slowly: A password is needed to make changes in the display.

### 7.5.7. Changing The Battery

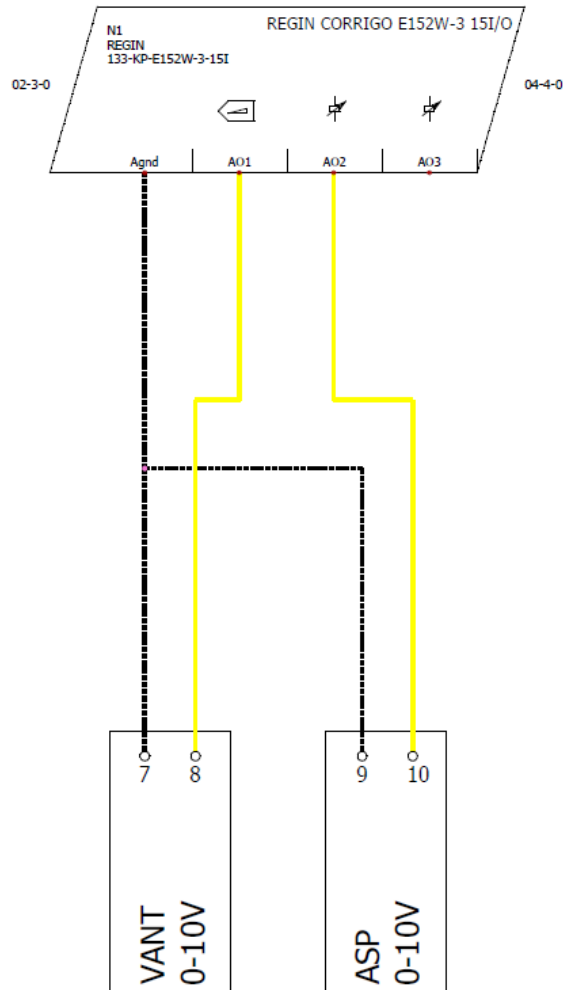
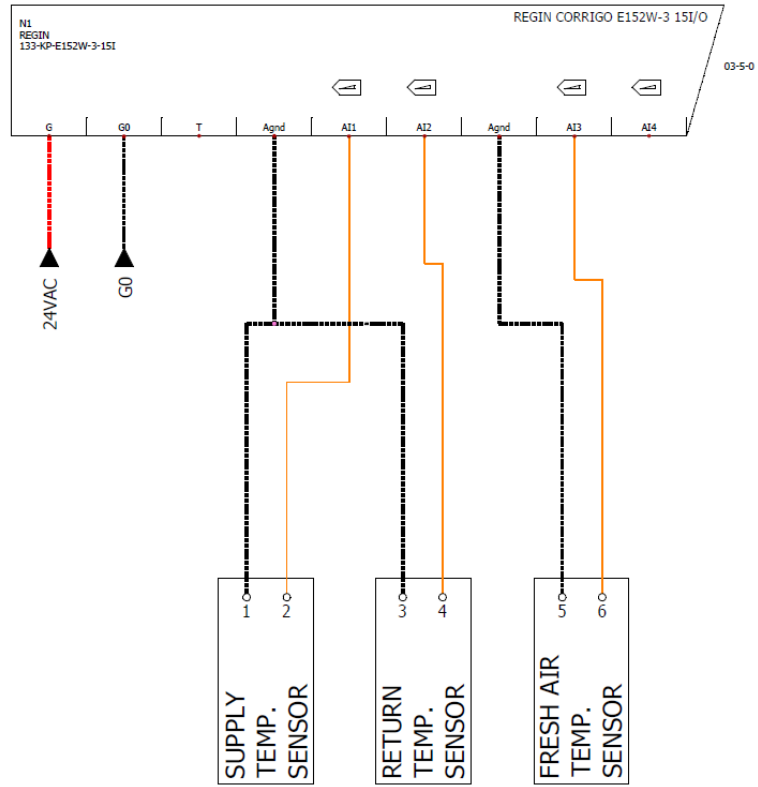
Corrigo has an internal battery to ensure the operation of the memory and real-time clock in the event of a power failure.

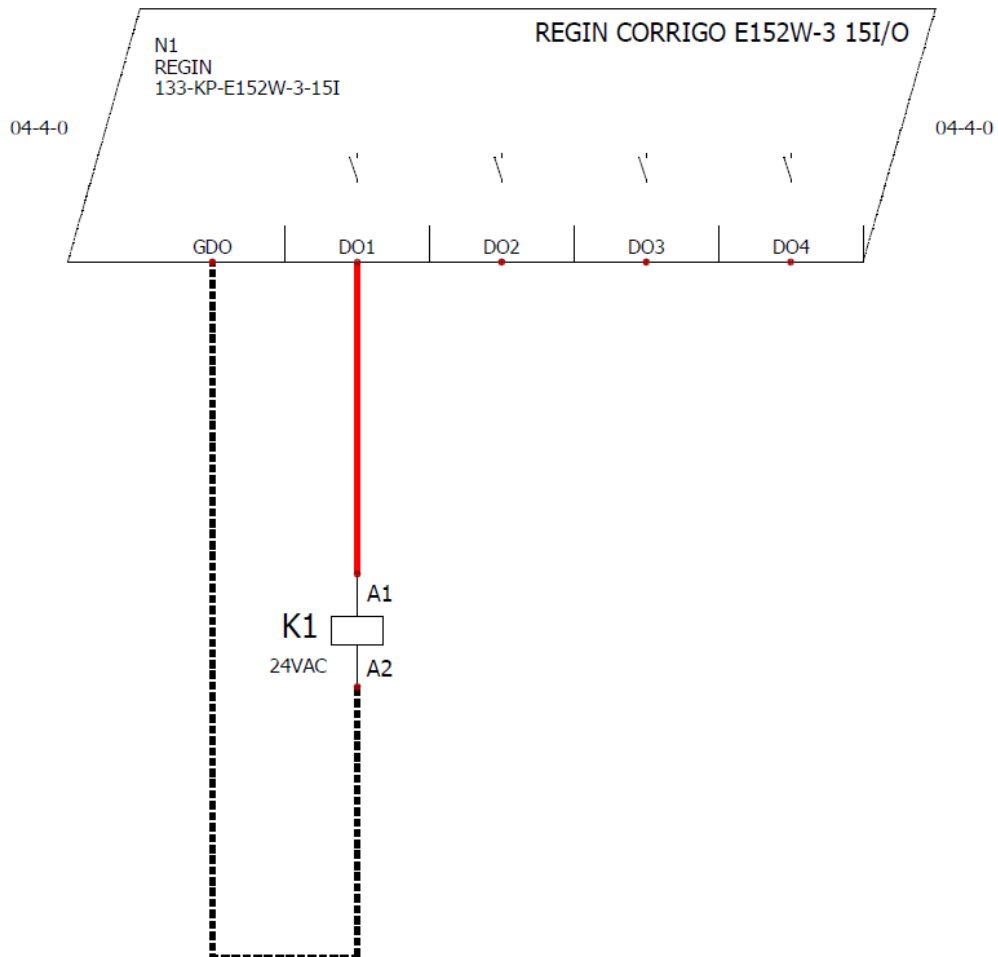
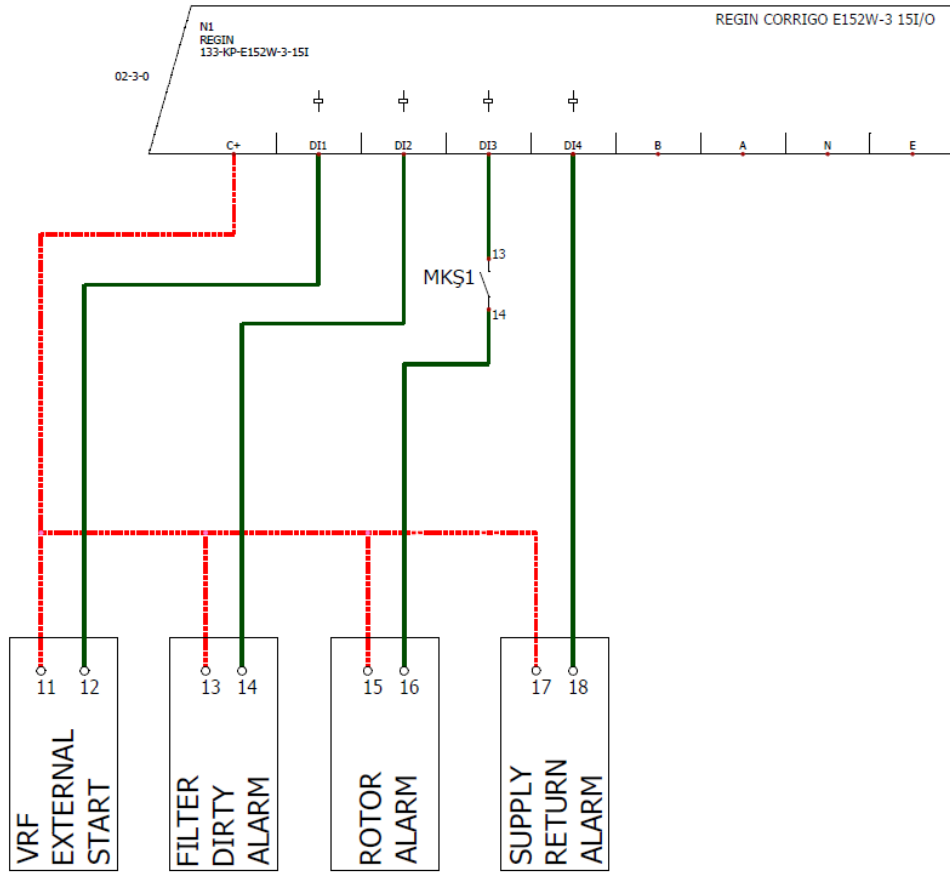
When the alarm "Internal Battery" is activated and the battery LED lights up red, the battery has become too weak and needs to be changed. Nonetheless, due to a backup capacitor, the controller will function at least 10 minutes without power supply.

Since changing the battery requires knowledge of proper ESD protection, as well as dismantling and opening of the unit, this should be handled by skilled service personnel.



FOUR RTER INSTALLATION AND OPERATION MANUAL







## 9. CONTROL

Operation	Description	Standart
On / Off	Control panel or external start stop function is available.	Standard
Display	Digital control panel is available.	Standard
Rotor Control	On/Off Control	Standard
Fan Speed Control	Constant air flow or constant pressure.	Optional
Fan Speed Control	Airflow control based on the air quality sensor is available.	Optional
Bypass Damper Function	Free cooling is available, by controlling the indoor and outdoor air conditions.	Standard
Frost Protection Function	When outdoor temperature is low, this function will become active by receiving information from humidity and temperature sensors.	Standard
ModBus	It controls all functions of unit via PC or central control system board.	Standard
Filter Function	There are 2 alternatives to control filters: 1: It records run time of the unit and when set time expires, control panel gives an alert for filter change. 2: Filter change time can be controlled with pressure switch mechanically. By this way, control panel gives an alert when filter needs to be changed.	Standard
Boost Function	It is used in order to increase fan speed: 1: Via boost button on the control panel 2: Via dry contact or light power input (230V) on PCB board.	Standard
Safety	It automatically stops operating in case of interfering to the unit while it is working.	Standard
Fire Alarm Function	It will be active in case of fire.	Standard
Wireless Sensors	Upon request, wireless CO <sub>2</sub> , differential pressure, temperature and humidity sensors are available.	Optional
Heating Coil	Heating coil valves on the device which include optional heating coil, are controlled by proportional valve motors with PID logic and sensitivity.	Optional
Frost Control	Optional heating coils also include frost thermostat to prevent the coil to freeze.	Optional

# NOTES

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