



Recuperation systems

USER GUIDE

◆ AIR HANDLING UNITS WITH HEAT RECOVERY

- ◆ HEKO
- ◆ VEKO
- ◆ PRO MINI 300 V/H
- ◆ PRO MAX 400 H I 600 H
- ◆ PRO MAX 400 V
- ◆ AIR EXPERT 400 H
- ◆ AIR EXPERT 600 H
- ◆ AIR EXPERT 400 V I 600 V



PRODMAX

Recuperation systems



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1. INTRODUCTION

This operation manual is combined with the technical description, operation manual and metric of the unit. This manual contains information on the installation and assembly of the PRO MAX, PRO MINI and AIR EXPERT series of heat recovery air handling units.

2. PURPOSE

The unit is equipped with a cross-flow heat exchanger, an electric heater and is designed to save thermal energy through its recuperation, being one of the elements used in energy-saving technology systems. The unit is a supplementary device and cannot be used on its own as the primary source of heating.

The unit is intended for securing continuous air exchange by means of mechanical ventilation in houses, offices, hotels, cafés and other residential and public premises, and for the recuperation of thermal energy of the discharged air from the premises for heating of clean air arriving from outside. The unit is not intended for industrial use or for air treatment applications in swimming pools or saunas.

The air flowing through the unit must not contain volatile inflammable or explosive substances, chemically active vapours, dust with large particles, soot, grease or media conducive to the formation of harmful substances (toxic substances, dust, pathogenic microorganisms), sticky substances and fibrous materials.

THE AIR HANDLING UNIT IS NOT INTENDED FOR USE BY CHILDREN, PERSONS WITH REDUCED MENTAL OR PERCEPTUAL ABILITIES OR PERSONS WITHOUT SPECIAL TRAINING. THE CONTROL UNIT MAY ONLY BE USED BY ADULTS ON CONDITION THAT THEY HAVE READ AND UNDERSTOOD THESE OPERATING INSTRUCTIONS. THE CONTROL PANEL SHOULD BE INSTALLED IN PLACES WHERE CHILDREN CANNOT ACCESS IT BY THEMSELVES.

3. TRANSPORT AND UNPACKING

Permissible storage and transport temperatures are between -30 and +60 0C.

The appliance must be transported and unpacked with due care. Dispose of the appliance packaging in an environmentally friendly manner.

4. SAFETY REQUIREMENTS

- Before using and installing the air handling unit, please read this user manual carefully.
- When installing and using the air handling unit, the provisions of this manual and all applicable local and national building, electrical and technical standards and norms must be strictly observed.
- It is obligatory to read all warnings included in this manual, warning signs located on the air handling unit, as they contain information concerning your safety.
- Failure to observe the assumptions and warnings in this manual may cause personal injury and damage to the air handling unit.
- Once you have familiarised yourself with this user manual, keep it for the entire life of the air handling unit.
- In the event of transfer/sale of the unit to another user, it is mandatory that this manual is also handed over.
- The unit may only be installed and repaired after it has been disconnected from the mains.
- It is forbidden to operate the air handling unit outside the temperature range specified in the user manual, as well as in an aggressive and explosive environment.
- It is not allowed to set up heating or other devices in the vicinity of the mains cable of the air handling unit.
- If you notice a damaged mains cable When connecting the air handling unit to the mains supply, it is strictly forbidden to use damaged equipment.

-
- Observe health and safety precautions when using electrical equipment during the installation of the air handling unit.
 - Be careful when unpacking/unloading the control panel.
 - Do not bend the mains cable, avoid damaging it.
 - Use the control panel only for its intended purpose.

5. PRECAUTIONS WHEN USING THE CONTROL UNIT

- Always and strictly observe the safety regulations, warnings, cautions and notes as recommended in this document. Failure to observe the safety regulations, warnings and the notes and instructions in this document may result in personal injury or damage.
- Do not touch the control panel and the electrical junction box with wet hands.
- It is forbidden to operate the control panel with wet hands.
- It is forbidden to use water to clean the control panel.
- Avoid contact of the electrical parts of the air handling unit with water.
- It is forbidden to block the inlet and outlet of the air ducts during the operation of the air handling unit.
- Maintenance of the air handling unit may be performed only after its absolute disconnection from the mains.
- It is forbidden to allow children to use the air handling unit.
- Damage to the mains cable must be avoided during use.
- It is forbidden to place any objects on the mains cable which may cause abrasion, cutting, etc. of the cable.
- It is forbidden to store explosive or flammable substances in the vicinity of the control unit.
- It is forbidden to open the control unit during operation.
- In the event of unusual sounds, odours or smoke, shut down the unit immediately and contact the service centre.
- The unit must always be assembled in compliance with the general and local construction, safety and assembly regulations issued by the relevant official bodies and energy and water supply companies.
- The unit should be connected to the installation before start-up to avoid touching the fan blades when the unit is in operation.

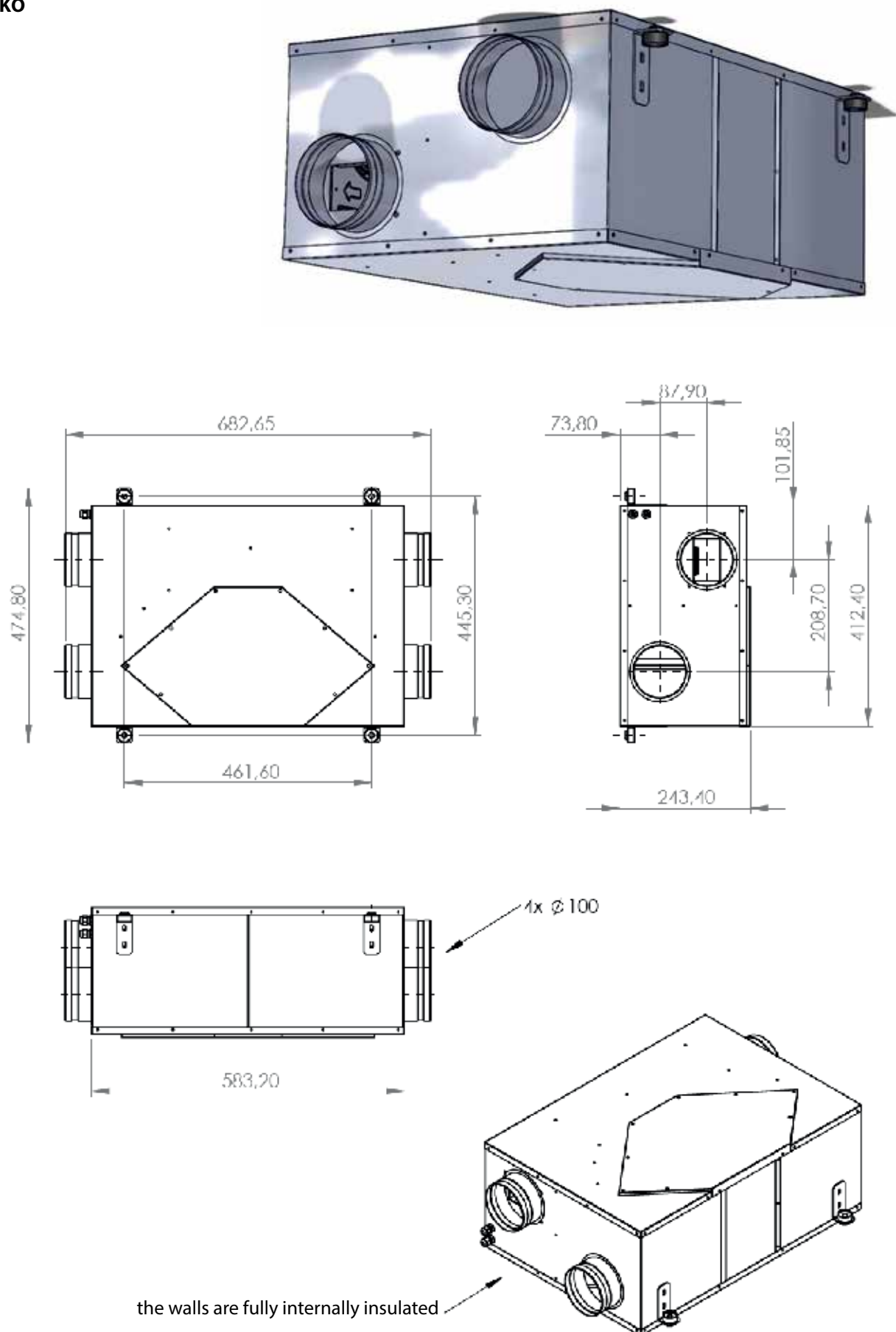
6. TECHNICAL SPECIFICATIONS

TECHNICAL CHARACTERISTICS:	HEKO 250 / VEKO 250	PRO MINI 300 V / H	PRO MAX 400 V	PRO MAX 400 H
Voltage [V/Hz]	1 x 230 V	1 x 230 V	1 x 230 V	1 x 230 V
Fan	RG11 Ziehl Abeg	Ziehl Abeg RH19V-4IPZ8.AR RADIAL 190 VPRO WITH EC055 MOTOR	Rosenberg GREG9 160x62R	Rosenberg GREG9 160x62R
Maximum fan power	2 szt x 90 W	2 szt x 170 W	2 szt x 149 W	2 szt x 149 W
Maximum fan current consumption [A]	2x0,39 A	2 x 0,74 A	2 x 0,65 A	2 x 0,65 A
Rotation speed [min ⁻¹]	4230	4000	1390	1390
Maximum temperature of pumped air [°C]	-20 do +50	-20 do +60	-20 do +50	-20 do +50
Exchanger type	cross-flow counterflow enthalpic	cross-flow counterflow	cross-flow counterflow	cross-flow counterflow
Maximum exchanger efficiency [%]	do 90 %	do 90%	do 98%	do 98%
Exchanger material	polystyrene	aluminium	polystyrene	polystyrene
Casing material	galvanised steel (painted)	painted steel	painted steel	painted steel
Insulation	6 mm, foam rubber	20 mm, mineral wool	40 mm, mineral wool	40 mm, mineral wool
Filter: intake	G4	M5	M5	M5
Filter: exhaust	G4	G4	G4	G4
Diameter of air connection stubs	Ø 100 mm	Ø 125 mm	Ø 160 mm	Ø 200 mm
Weight [kg]	16,3	28	68	68
Displacement pressure 100Pa [m ³ /h]	265	290 (V)/280 (H)	470	485
Room panel	Nano Color	Nano Color	Nano Color	Nano Color
Type of controller	Aero 4	A4	A4	A4
Dimensions [length x width x height]	682 x 474 x 243	725 x 245 x 585	878 x 745 x 677	878 x 745 x 677
Preliminary heater power [kW]	NONE	0,5	2,0	1,0
Current consumption [A]	NONE	2,17	8,70	4,35
Power of secondary heater [kW]	NONE	NONE	NONE	NONE
Secondary heater power [A]	NONE	NONE	NONE	NONE
Total power of appliance [kW]	0,186	0,8475	2,3055	1,3055
Total equipment power [A]	1	8,87	15,22	10,87
Bypass	NONE	YES - AUTOMATIC	YES - AUTOMATIC	YES - AUTOMATIC
Heat exchanger	enthalpic	cross-flow counterflow RECUTECH - REK+17-240-22	cross-flow counterflow CORE RS160-500-000	cross-flow counterflow CORE RS160-500-000
Fans	EC fans	EC fans	EC fans	EC fans
Internet module	NONE	NONE	YES	YES
CSF module	NONE	OPTION	OPTION	OPTION
Air quality sensor	OPTION	OPTION	OPTION	OPTION

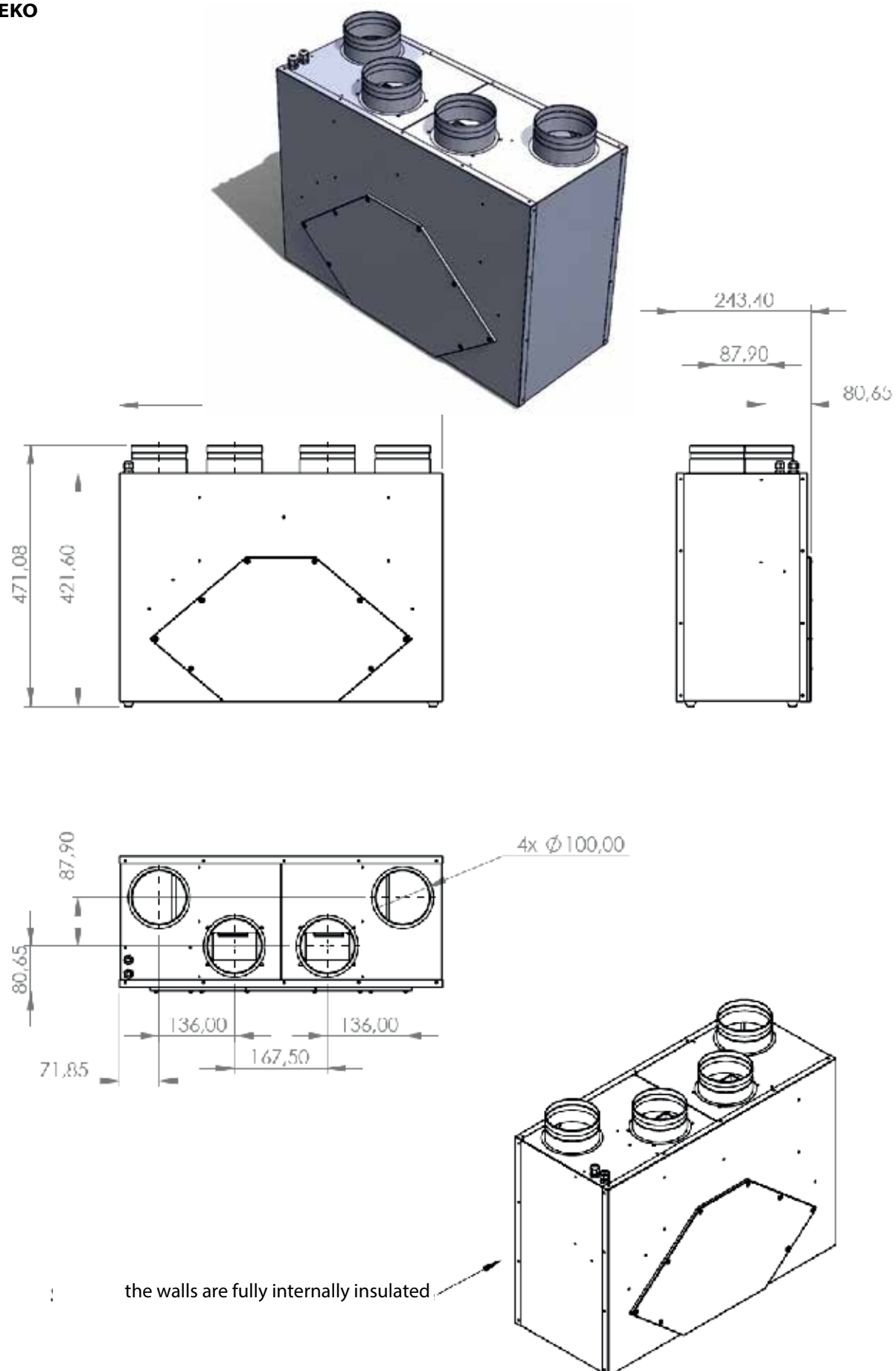
PRO MAX 600 H	AIR EXPERT 400 H	AIR EXPERT 600 H	AIR EXPERT 400 V	AIR EXPERT 600 V
1 x 230 V	1 x 230 V	1 x 230 V	1 x 230 V	230 V
EBM - D3G146-HQ13-63 EBM-PAPST radial	Ziehl Abeg RH19V-4IP.Z8.AR RADIAL 190 VPRO WITH EC055 MOTOR	EB - D3G146-HQ-13-63 EBM-PAPST radial	Ziehl Abeg - GR20V-4IP.Z8. AR	Ziehl Abeg GR20V-4IP.Z8.AR
2 szt x 230 W	2 szt x 170 W	2 szt x 230 W	2 szt x 170 W	2szt 170 W
2 x 1 A	2 x 0,74 A	2 x 1 A	2 x 0,74 A	2x0,74 A
2400	4000	2400	3400	3400
-20 do +50	-20 do +50	-20 do +50	-20 do +50	-20 do +50
cross-flow counterflow	cross-flow counterflow	cross-flow counterflow	cross-flow counterflow	cross-flow counterflow
do 98%	do 98%	do 98%	do 98%	do 98%
polystyrene	polystyrene	polystyrene	polystyrene	polystyrene
painted steel	EPP/painted steel	EPP/painted steel	EPP/painted steel	EPP/painted steel
40 mm, mineral wool	EPP	EPP	EPP	EPP
M5	M5	M5	M5	M5
G4	G4	G4	G4	G4
Ø 200 mm	Ø 160 mm	Ø 200 mm	Ø 200 mm	Ø 200 mm
93	45	45	32	32
655	420	615	420	625
Nano Color	Nano Color	Nano Color	Nano Color	Nano Color
A4	A4	A4	A4	A4
1178 x 745 x 722	1205 x 797 x 430	1205 x 797 x 430	1075 x 770 x 602	1075 x 770 x 602
1,7	2,0	2,0	2	2
7,39	8,69	8,69	8,69	8,69
NONE	NONE	NONE	NONE	NONE
NONE	NONE	NONE	NONE	NONE
2,1675	2,3475	2,3475	2,3475	2,3475
14,61	15,39	15,39	15,39	15,39
YES - AUTOMATIC	YES - AUTOMATIC	YES - AUTOMATIC	YES - AUTOMATIC	YES - AUTOMATIC
cross-flow counterflow CORE RS160-500-000	cross-flow counterflow CORE RS160ND - H500 MN/CORE HRV366-H500-R	cross-flow counterflow CORE RC160ND - H500 MN/CORE HRV366-H500-LR	cross-flow counterflow CORE RS160ND - H500 MN/CORE HRV366-H500-R	cross-flow counterflow CORE RC160ND - H500 MN/CORE HRV366-H500-LR
EC fans	EC fans	EC fans	EC fans	EC fans
YES	YES	YES	YES	YES
OPTION	OPTION	OPTION	OPTION	OPTION
OPTION	OPTION	OPTION	OPTION	OPTION

7. DIMENSIONAL SKETCHES

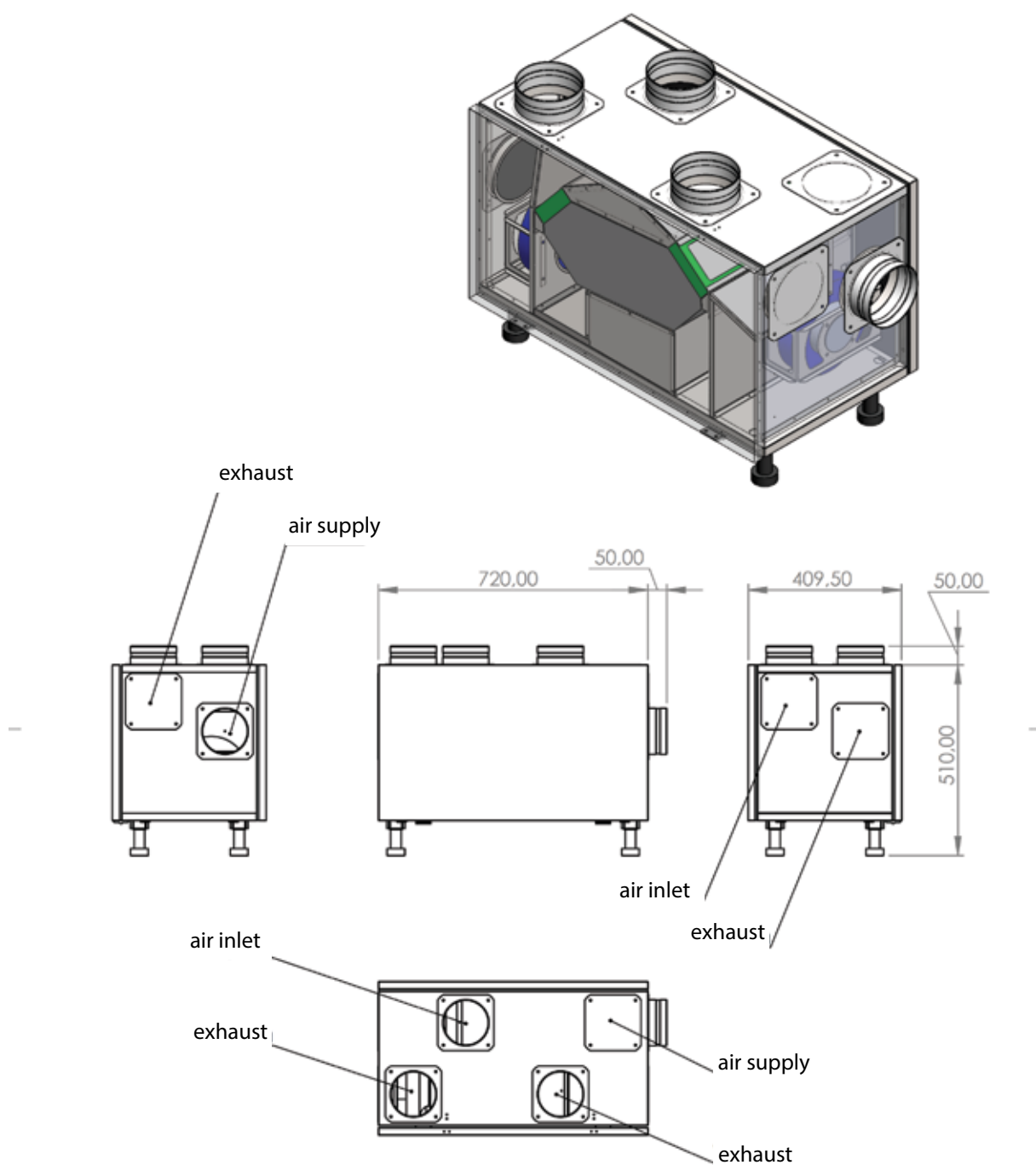
7.1 HEKO



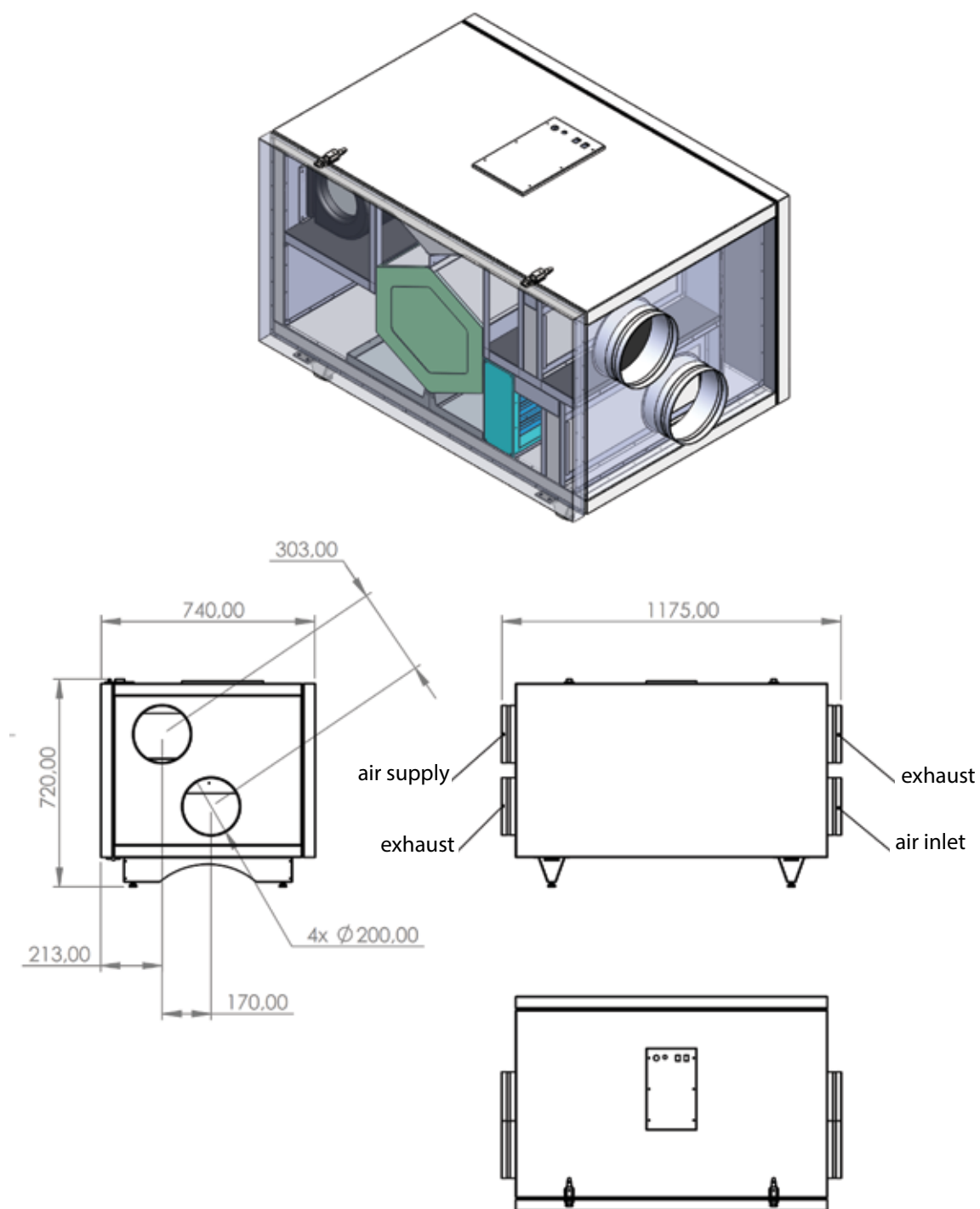
7.2 VEKO



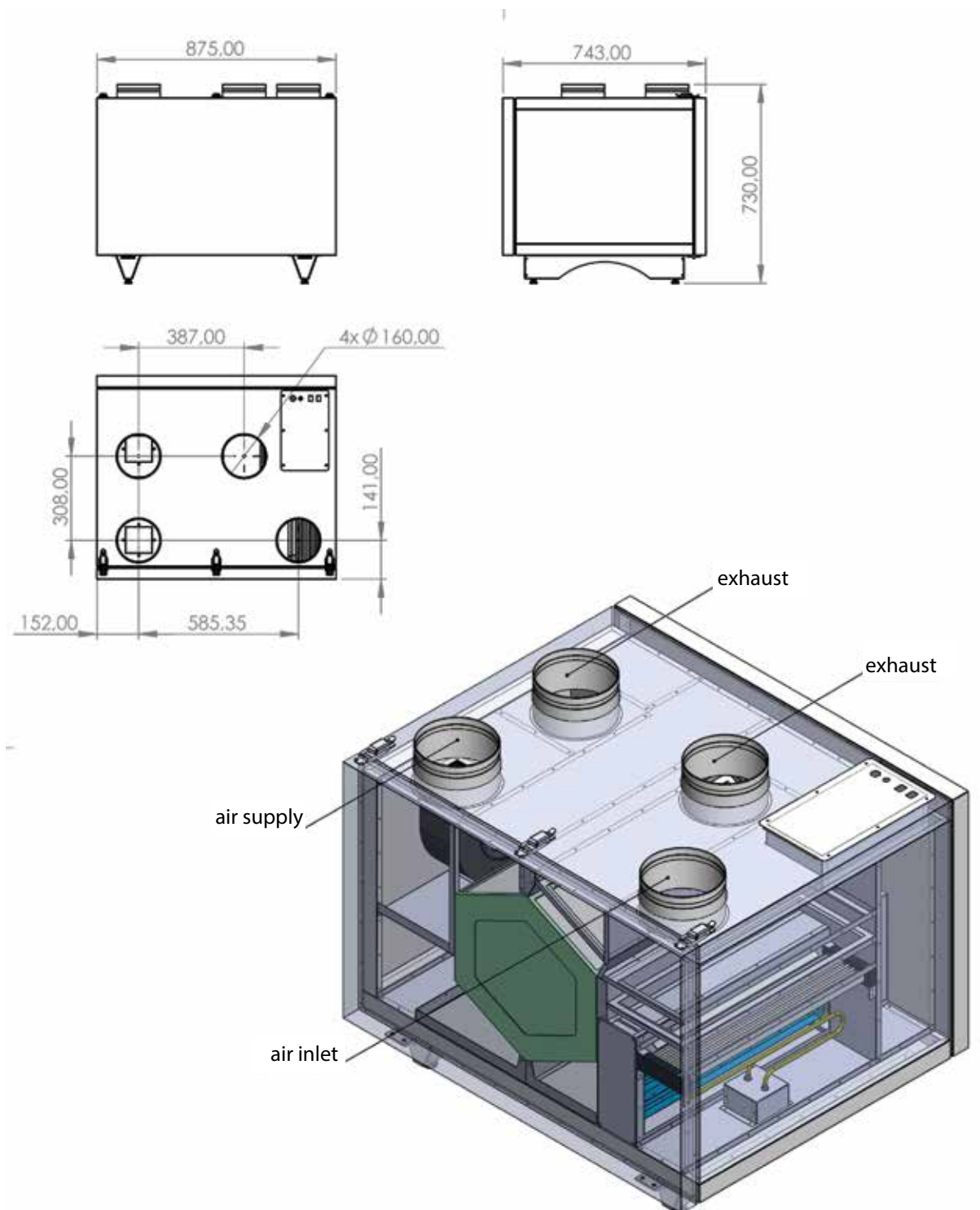
7.3 PRO MINI 300 V/H



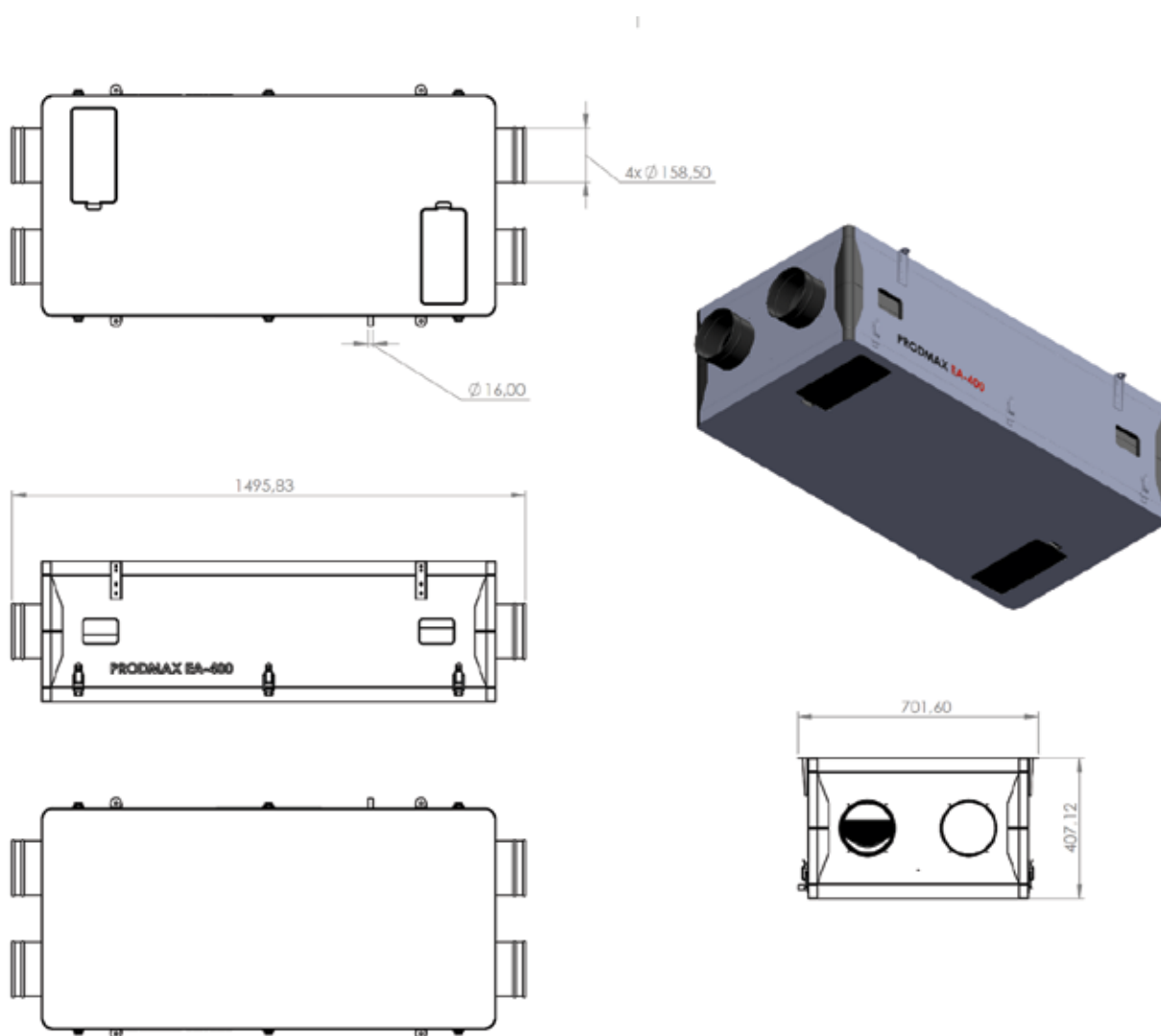
7.4 PRO MAX 400 H | 600 H



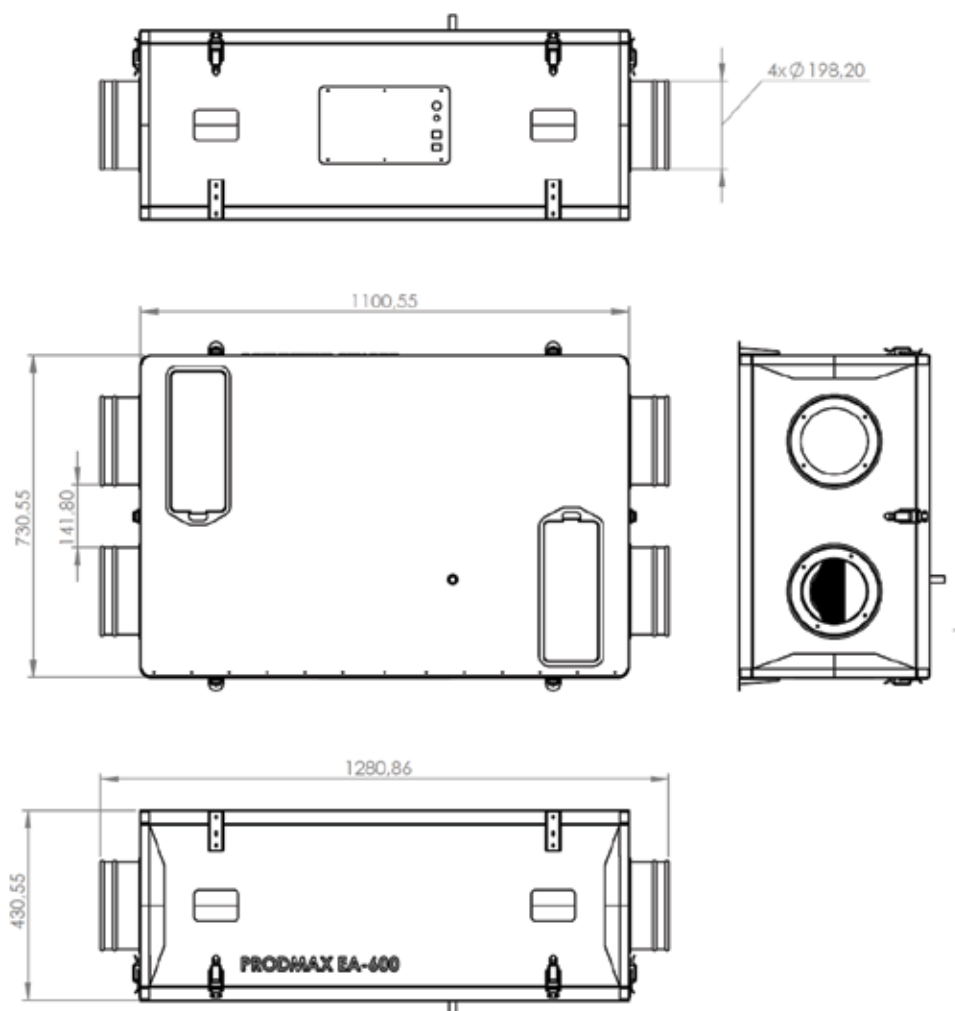
7.5 PRO MAX 400 V



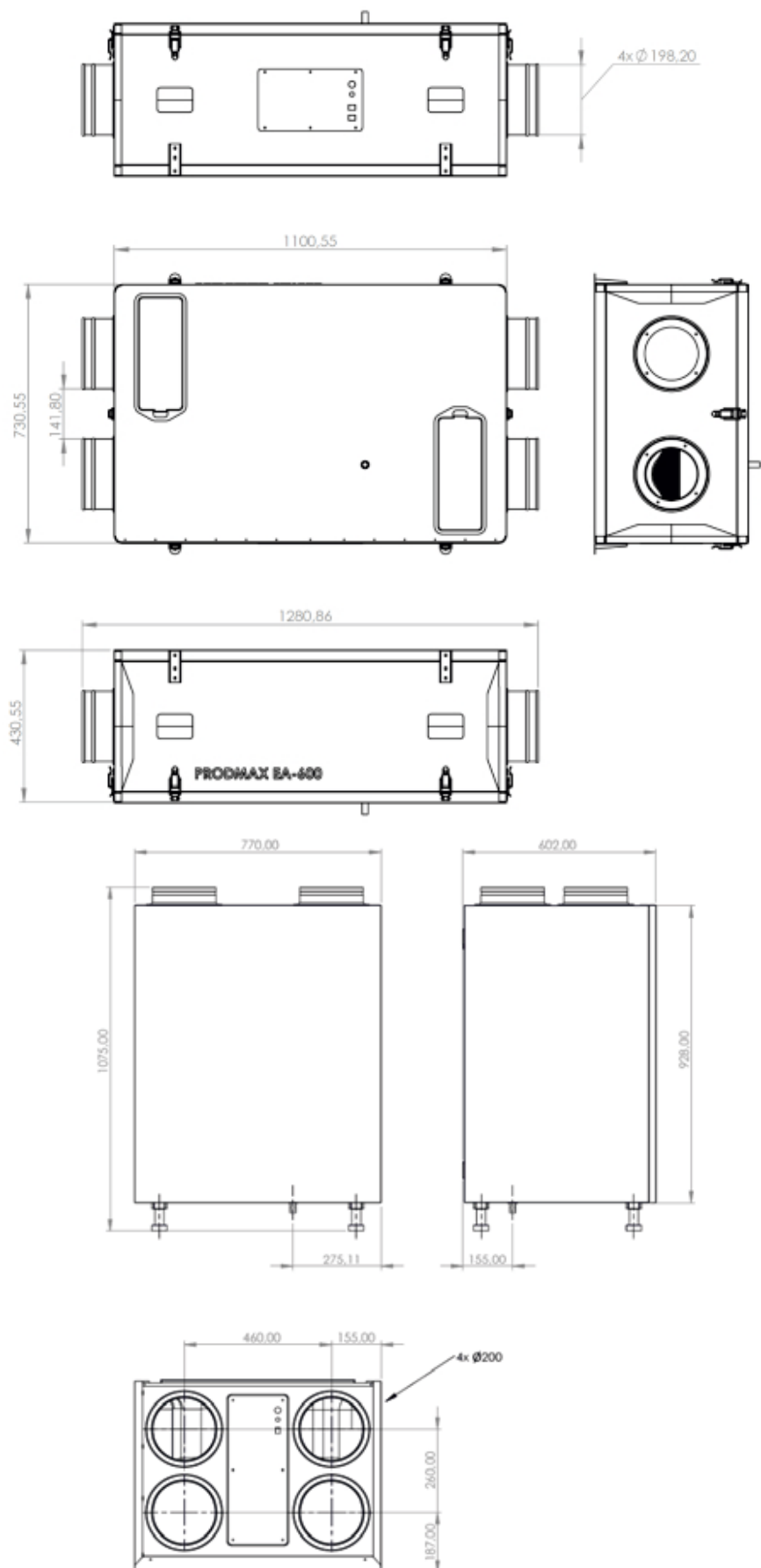
7.6 AIR EXPERT 400 H



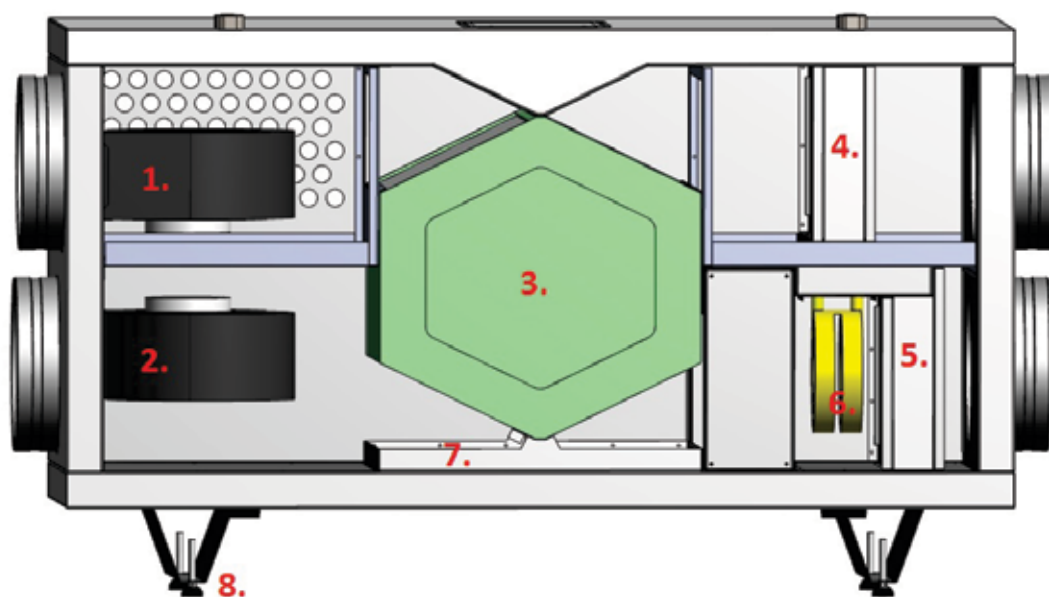
7.7 AIR EXPERT 600 H



7.8 AIR EXPERT 400 V I 600 V



7.9 DEVICE CONFIGURATION



- Supply fan
- Exhaust fan
- Heat exchanger
- G4 extraction filter
- Inlet M5 filter
- Pre-heater
- Drip tray
- Adjustment feet

Designation of spigots:



- **AIR INLET** - outdoor air intake duct



- **EXHAUST** - used air discharge duct



- **EXHAUST** - used air exhaust duct from premises



- **AIR SUPPLY** - supply air duct to the rooms

7.10 INFORMATION ON THE RATING PLATE

Example of information on the unit nameplate:

Technical characteristics:	PRO MINI 300 V/H Classic
Voltage [V/Hz]	1 x 230 V
Fan	Ziehl Abeg RH19V-4IP. Z8.AR RADIAL 190 VPRO WITH EC055 MOTOR
Maximum fan power	2 pcs. x 170 W
Maximum fan current consumption [A]	2x0,74 A
Rotation speed [min ⁻¹]	4000
Maximum temperature of pumped air [°C]	-20 to 60
Exchanger type	cross-flow counterflow
Maximum exchanger efficiency [%]	up to 90 %
Exchanger material	aluminium
Casing material	painted steel
Insulation	20 mm, mineral wool
Filter: intake	M5
Filter: exhaust	G4
Diameter of air connection stubs	Ø125 mm
Weight [kg]	28
Displacement pressure 100Pa [m ³ /h]	290 (V)/280 (H)
Room panel	Nano Color
Type of controller	A4
Dimensions [length x width x height]	725x245x585
Preliminary heater power [kW]	0.5
Current consumption [A]	2.17
Power of secondary heater [kW]	NONE
Secondary heater power [A]	NONE
Total power of appliance [kW]	0.8475
Total equipment power [A]	8.87
Bypass	YES - AUTOMATIC
Heat exchanger	cross-flow counterflow RECUTECH - REK+17-240-22
Fans	EC Fans
Internet module	NONE
CSF module	Option
Air quality sensor	Option

The air handling units are designed for installation in an enclosed space of a building at an ambient air temperature of +10 °C to +40 °C and a relative humidity of up to 80%.

In terms of protection against electric shock, the air handling unit belongs to Class 1 equipment.

Degree of protection against access to hazardous assemblies and water penetration:

- to the electrical motors of the air handling unit - IP 44;
- to the air handling unit connected to the air ducts - IP 22.

8. CONSTRUCTION AND PRINCIPLE OF OPERATION

The air handling unit operates according to the principle described below:

Warm, polluted air is drawn into the air handling unit from rooms such as WC, bathroom, kitchen, wardrobe, vestibule, pantry, laundry room. The unit then filters and transfers the heat via a cross-flow exchanger, i.e. a recuperator, to the fresh air stream taken in from outside. With the help of an extractor fan through an air duct, it is then discharged to the outside through an extractor.

The clean, cool air from outside, with the help of the supply fan through the air duct of the intake air duct, flows into the filter chamber of the intake air duct, where it is filtered and then the air passes through the recuperator and, after receiving the heat transferred by the exhaust air, is blown into the other rooms such as the living room, bedroom.

In the heat exchanger, heat energy is exchanged from the exhaust air - the warm air coming in from the room - to the clean but cool air coming in from outside. Heat recuperation minimises energy losses and space heating costs during cold periods.

The standard equipment of the air handling unit includes:

- a remote control panel which, by means of a communication cable, is connected to the control system located in the internal service panel of the body of the air handling unit. The construction of the air handling unit includes EC centrifugal fans: supply and exhaust single-suction with backward curved impeller blades and maintenance-free electric motors with electronic commutation of the external impeller and built-in thermal protection,
- cross-flow heat exchanger,
- supply air filter of filtration class F7, which is used to prevent contamination of the supply air and to protect the unit's components from contamination. An exhaust filter with a filtration class of G4 is used to protect the unit's components from contamination. During operation of the recuperator, the formation of condensate is possible. The condensate is collected in a drip tray and drained from the air handling unit by means of a condensate pipe. The air handling unit is equipped with a siphon which should be connected to the sewage system.

9. INSTALLATION AND PREPARATION FOR OPERATION

9.1 INSTALLATION OF THE UNIT

1. The air handling unit must be placed on a stable base and must be levelled to maintain a minimum 3% slope towards the drip tray drain.
2. The unit should be installed in such a way that it is possible to open the unit freely to change the filters, clean the exchanger, maintain the fans.
3. check that the electrical installation is suitable for the maximum power of the unit. The permissible air inlet temperature is between -20 and +600 C.
4. Check that the mounting location of the unit is free from frost.
5. The air handling unit should be installed in rooms with a temperature of min. 10 0C .

9.2 MINIMALNE ODLEGŁOŚCI NIEZBĘDNE DLA ZAPEWNIENIA DOSTĘPU

During installation, a minimum access to the control panel must be provided to allow for maintenance or repair maintenance or repair. The minimum access should take into account the possibility to remove the exchanger and filters from the air handling unit when the inspection flap is fully opened. Access to the automation box must not be less than 40 cm.

To ensure the best efficiency of the air handling unit and to reduce the aerodynamic losses due to turbulence, it is recommended to install a straight air duct section at the entry and exit of the air handling unit.

The minimum recommended lengths of these straight sections are:

- 1 air duct diameter on the air inlet side;
- 3 diameters on the air outlet side.

If there is no or a small length of the air ducts on one or more stubs of the air handling unit, it is necessary to protect the internal parts of the air handling unit against penetration of foreign bodies, for example, to install a protective grille or other device with a mesh size not exceeding 12.5 mm to prevent free access to the fans.

If the unit is wall-mounted, use anchor bolts suitable for the type of substrate in which it will be fixed. It must be checked that the structure to be installed can bear the weight of the air handling unit. If this is not the case, the installation site must be reinforced with additional beams. The air handling unit must be installed on a rigid and stable surface.

If the spiral air duct connection point is the source of noise, the spiral air duct must be replaced with a flexible duct to avoid resonance. Flexible inserts can also be used to remove resonance.

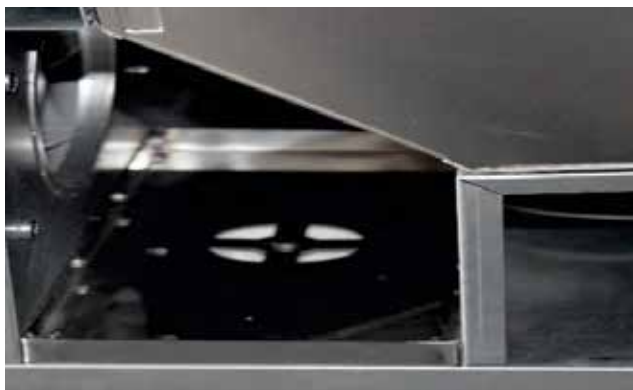
9.3 CONDENSATE DRAINAGE

9.3.1 The condensate tank is equipped with a pipe for draining the condensate outside the unit.

9.3.2 The condensate drainage tube must be connected via a siphon (provided with the air handling unit) to the drainage system using the appropriate diameter of drainage pipes. The pipes must be laid with an incline of not less than 3° outwards. Before connecting the air handling unit to the mains supply, the drainage system must be filled with water! The siphon must always be filled with water during operation. Make sure that the water flows into the drainage system, otherwise during operation of the recuperator there is a possibility of condensate accumulation inside the air handling unit, which in turn may cause damage to the unit and leakage of water into the room.

9.3.3 The condensate drainage system must be operated in rooms with an air temperature above 0 °C! If the room temperature is below 0 °C, the condensate drainage system must be insulated with thermal insulation and equipped with a heating device to prevent it from freezing.

fig. Condensate tray and condensate drain.



9.4 CONNECTION TO MAINS

The unit must be connected to the 230 V / 50 Hz (60 Hz) single-phase AC mains using the original power supply cable provided with the unit. Before connecting to the mains, check that the cable is not mechanically damaged by crushing, cutting, etc., which may result in an electric shock.

The connection of the unit to the mains must be made in compliance with the regulations and applicable standards.

9.5 AIR DUCT INSTALLATION

The unit can be installed via a traditional galvanised pipe and fittings system or via the recommended **VENT-FLEX** manifold system.

When laying out the installation, remember:

- The distance between the inlet and the outlet should be min. 15m.

ATTENTION!!! BEFORE CARRYING OUT ANY WORKS ON THE AIR HANDLING UNIT IT IS ABSOLUTELY NECESSARY TO DISCONNECT IT FROM THE POWER SUPPLY. THE AIR HANDLING UNIT HAS TO BE CONNECTED TO A PROPERLY INSTALLED SOCKET WITH AN EARTHING CONTACT. THE NOMINAL VALUES OF THE AIR HANDLING UNIT'S PARAMETERS ARE INDICATED ON THE MANUFACTURER'S LABEL. ANY MODIFICATION OF THE INTERNAL CONNECTION IS FORBIDDEN AND WILL VOID THE GUARANTEE.

- The air intake should be located on the shadiest side as far as possible from sources of stale air (street, field, etc.).
- Install the ejection air duct with a slope to the unit.
- Insulate all ducts according to the following guidelines, avoiding condensation in the duct and excessive moisture.
- Lay the ducting to minimise the number of sharp bends to reduce resistance.
- The installation should be airtight, use galvanised fittings with a gasket or, after joining, tape the area with aluminium adhesive tape.
- Connect the installation to the unit with flexible dampers on the supply and extract side to reduce the transmission of vibrations and to make the installation quieter.
- Use the shortest possible screws for rigid connections made of galvanised ducting; their protruding ends on the inside of the duct make cleaning difficult, create noise and reduce efficiency.
- Carry out the installation in accordance with the design made by an authorised designer.
- Adjust the installation with an anemometer according to the air balance obtained.
- Install air vents min. 30 cm from the wall surface.
- Use a directional nozzle if the valve is to be mounted on the wall.
- To ensure adequate flow between rooms remember:
The gap under the internal door should have a min. 7600 mm² surface area.
At least a 10mm gap under internal doors with a standard width of 760mm.
- **DO NOT cover the openings, this will obstruct the air circulation.**
- **PRODMAX recommends using the VENT-FLEX system together with a previously made design.**

	Ambient temperature of the pipe		
	od +20°C do +15°C	od +14°C do +1°C	od +0°C do -20°C
	insulation thickness for a given temperature range		
Ducts:	[mm]	[mm]	[mm]
supply	20	50	20 + (200)*
exhaust	20	50	20 + (200)*
inlets	50	50	20
exhaust	20 - 30	20	20 + (200)*

* Mineral wool insulation 20 mm thick, covered on one side with aluminium foil + minimum 200 mm of mineral wool as cladding.

Mineral wool as cladding or covering for ducts installed in uninsulated attics term.



Traditional system



VENT-FLEX System

10. MAINTENANCE

10.1 CLEANING/REPLACING FILTERS

Dirty filters increase the resistance to airflow, which reduces the amount of air supplied to the rooms and increases the power consumption of the fans.

The filters should be cleaned as they become dirty, but no less than 3-4 times per year. It is permissible to clean the filters with a Hoover. After cleaning twice, the filters should be replaced with new ones. Please contact your dealer for new filters.

10.2 FAN MAINTENANCE

FREQUENCY: min. 1x per year

Even with regular maintenance of the filters and the recuperator, dust deposits may accumulate in the fans, resulting in a reduction in the efficiency of the air handling unit and the amount of air supplied to the rooms.

Use a soft cloth or brush to clean the fans. To avoid possible impeller damage, do not use water, chemically aggressive solvents, sharp objects, etc. for this purpose.

10.3 MAINTENANCE OF THE EXCHANGER

FREQUENCY: min. 1x per year

Even with regular maintenance of the filters, dust deposits can form on the recuperator unit. In order to maintain high heat exchange efficiency, the recuperator should be cleaned regularly. Remove the recuperator from the air handling unit and wash it with a warm water solution of a neutral cleaning agent, then reinstall the dried heat exchanger in the air handling unit.

10.4 MAINTENANCE OF CONDENSATE DRAINAGE SYSTEM

FREQUENCY: min. 1x a year

The condensate drain (drain line) may be contaminated with particles from the extracted air. Check the function of the drain line by filling the drain tank with water and, if necessary, remove the dirt from the trap and drain line.

10.5 MAINTENANCE OF AIR INTAKE AND EXHAUST DUCTS

FREQUENCY: min. 2x a year

Leaves and other debris can clog the supply grille and reduce the efficiency of the air handling unit and reduce the air flow. Check the supply grille twice a year and clean it if necessary.

10.6 MAINTENANCE OF THE AIR DUCT SYSTEM

FREQUENCY: min. 1x every 5 years

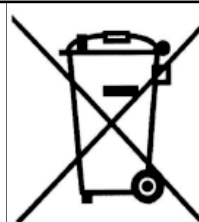
Even if all the above mentioned maintenance operations of the air handling unit are duly carried out, dust deposits may form inside the air ducts, which reduces the performance of the air handling unit. Maintenance of the air ducts consists of periodic cleaning or replacement.



If you intend to dispose of this product, do not dispose of it with your normal household waste. According to the WEEE Directive (Directive 2002/96/EC) in force in the European Union for used electrical and electronic equipment and electronic equipment must be disposed of separately.

For further information regarding the recycling of waste from this product, please contact the municipal authorities in your area with the appropriate waste disposal service.

The manufacturer declares the conformity of the product with the LVD directive 2006/95/EC, for electrical equipment operating within the specified voltage range. The product has been labelled as a result of a conformity assessment procedure.



[illegible]

*We take care
of your home's climate!*



rekuperacja.prodmax.pl



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