

INSTALLATION INSTRUCTIONS



COMBI BLUELINE

TABLE OF CONTENTS

Safety Information	3
About the Product	4
Transportation and Storage	4
Directions/Safety Instructions.....	4
Product Description.....	4
Combi Blueline Overview	6
Installation	7
Installation.....	7
Connecting to a Water Mains	7
Connecting to Condensate Drain.....	8
Duct connections.....	9
Ducting System.....	10
Insulation of Ducts in Heated Spaces.....	11
Electric Water Heater/Sensor/Anode/Thermostat.....	12
Electrical Installation	13
System Inspection and Fine-Tuning	13
Optimal Fine-Tuning of the System.....	14
Requirements to the Hot Water Circuit	14
Initial Operation of the Water Circuit	15
Cooling Circuit.....	15
Energy-Saving Tips.....	15
Fan Operation Tips.....	15
Rechecking.....	15
Electrical Diagrams	16
Flow Diagram	18
Hydraulic Connections	19
Modes of Operation	20
Spare Parts	22
Declaration Of Conformity	23

SAFETY INFORMATION

This manual also describes installation and service work to be performed by a professional. This device can be used by children aged 8 and over and by people with reduced physical, sensory and mental capabilities or lack of experience and knowledge, as long as they are supervised or have been instructed in the safe use of the unit and understand the dangers involved.

Children must not play with the device. Children must not clean or maintain the appliance without supervision.

Subject to design changes.

Labelling

The CE mark represents Genvex's assurance that the product complies with all regulations laid down for the product in accordance with relevant EU directives.

The CE mark is mandatory for most products sold in the EU, irrespective of where they are made.

ABOUT THE PRODUCT

Transportation and Storage

It is recommended to store the unit in an upright position and without water. During transportation, the unit can be tilted up to 45 °C if it is done carefully and over short distances. The unit can be transported and stored within a temperature range of -20 to +70 °C.

If transporting the heat pump with a forklift truck, it should be placed on the provided base mount and lifted slowly. Due to its high centre of gravity, the unit must be secured to prevent it from toppling during transportation.

When using a sack trolley for transportation, it is important to secure the unit to prevent slipping and avoid using water pipe connections for transportation purposes. Additionally, care should be taken to ensure that the sack trolley does not cause damage to the cabinet and connectors.

During unloading, it is important to place the unit on a level surface to prevent damage.

Directions/Safety Instructions

- The unit's construction adheres to all EU regulations (refer to the CE certificate for more information).
- Precautions must be taken against fire during maintenance work that involves opening the coolant circuit, especially if the work involves fire-related tasks such as welding or soldering.
- Prior to commencing work on the unit, it is crucial to disconnect all electrical connections.
- When connecting the unit, it is important to comply with all relevant laws and regulations.
- The water used must be of potable grade, and if the water pressure is high, a pressure reduction valve must be installed.
- All connections related to potable water must be certified. Note: Only a certified contractor should perform any work.

Product Description

Use

The Combi Blueline is a combined ventilation unit and domestic water heat pump which can be used for:

- Air Heating
- Domestic hotwater;
- Ventilation with heat recovery;
- Air cooling both passively using the built in bypass and actively using the heatpump

Description

The Combi Blueline is a unit that comes ready to connect and consists of several important components, including the cabinet, tank, refrigerant, ventilation unit, heatpump as well as a control unit. By using residual heat in the extracted air, the Combi Blueline heat pump can heat the supply air or produce domestic hot water.

Throughout the year, the Combi Blueline unit can provide a family's hot water needs by heating domestic water.

The tank has a built-in immersion heater, and sensors placed at the bottom and in the middle of the tank used for temperature regulation in the tank.

Optional - Combi Blueline Z

It is possible to order the Combi Blueline in a Z version. The "Z" stands for zone control, meaning that when the unit is equipped with a zone control kit- which includes a three-way motorized valve and CO₂/temperature sensors - it can maintain two separate temperature zones within a home. This feature is particularly useful in scenarios where the bedroom needs to be kept at a lower temperature than the rest of the house.

DHW capacity

The Combi Blueline unit has the capacity to heat 185 litres of domestic water to a temperature of 55°C within 8 hours, but this may vary depending on factors such as the temperature of the heat source, cold water and DHW tapping pattern. To handle peak loads, an integrated electric immersion heater with a 1 kW output is available. Compared to a directly heated tank, the Combi Blueline unit consumes only about 30% of the electric energy.

The control unit (Optima 314) activates the compressor as soon as hot water is used and the bottom of the tank cools down, and it runs until the sensors detect that the entire tank has reached the set temperature. The Combi Blueline unit is capable of satisfying the hot water needs of an entire family. In case of insufficient hot water production, the immersion heater can be manually activated via the control unit to produce double the amount of hot water. However, using the immersion heater consumes more energy than the compressor, so it should only be used during peak loads.

Heatpump process

The coolant circuit of the Combi Blueline is hermetically sealed and uses R134a coolant as an energy carrier. The heating module functions by removing heat from the air and transferring it to the coolant via the condenser. The coolant is compressed by the compressor and transported to the domestic water heater and/or the supply air duct. The compressor transfers energy into the coolant, which then heats either the water or the air that requires heating. The coolant then condenses and reverts to a fluid state.

Defrosting

When the temperature difference between the temperature prior to the cooling coil and the temperature of the cooling coil itself becomes too large, which occurs when there is ice formed on the cooling surface, the unit will begin to defrost. The supply air ventilator and the electric heating coils will disengage. The discharge air ventilator will continue to run together with the compressor, which will send hot gas directly into the evaporator until the ice melts and the cooling coil reaches a temperature of around 5 °C, depending on the temperature setpoint in the Optima314 controller. When the defrosting process has finished the supply air fan and the electric heating coil will re-engage balanced deicing mode where the supply air fans run simultaneously with the extract air fan is also possible but will increase the defrosting process.

Scope of Delivery

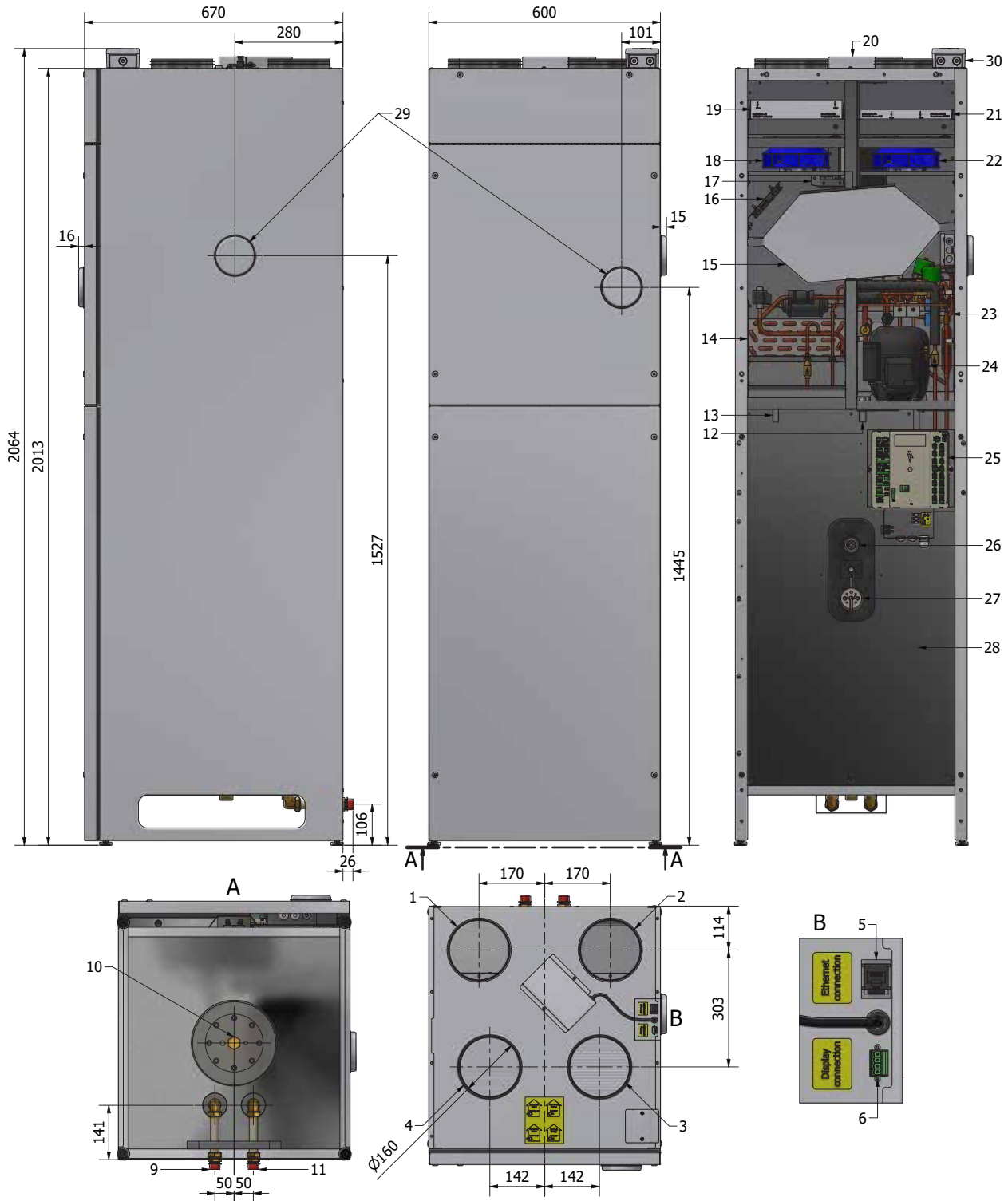
- Combined ventilation and heatpump unit with controls.
- Installations Instructions and Instructions for use

Accessories

- Electric preheater
- Electric or water-based reheater
- For Z-version : T-piece with valve and motor
- For Z-version : Air volume control valve

Please refer to spare parts section of this manual.

COMBI BLUELINE OVERVIEW



- | | | |
|------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 1. Discharge air | 14. Evaporator | 24. Compressor |
| 2. Supply air | 15. Counterflow heat exchanger | 25. Optima 314 controller |
| 3. Extract air | 16. 1200W Electric preheater (option) | 26. 5/4" anode |
| 4. Incoming air | 17. Bypass | 27. 1 kW electric heating element |
| 5. Internet connection | 18. 90W Supply air fan | 28. 185 L. tank |
| 6. Display connection | 19. ePM1/F7 - Supply air filter (option) | 29. Ø100 mm connection for Zone control in front or side (only available for Z front and Z side version) |
| 9. Hot water outlet 3/4" RG | 19. Coarse/G4 - Supply air filter | 30. Electrical junction box for zone valve and reheater (only available for Z-version) |
| 10. 3/4" plugged drain connection | 20. Bypass motor | |
| 11. Cold water inlet 3/4" RG | 21. Coarse/G4 - Extract air filter | |
| 12. Condensate drain - Supply air | 22. 90W Extract air fan | |
| 13. Condensate drain - Exhaust air | 23. Condenser | |

INSTALLATION

Installation

The Combi Blueline unit should only be installed in premises that are free from frost. The premises must meet certain prerequisites, including a room temperature between 8 and 35 °C for operation using room air, condensate drainage, no abnormal dust load in the air, and a solid foundation that can take the total weight of the Combi Blueline when full of water (400 kg). To ensure proper operation and allow for repairs and maintenance, it is recommended to keep a clearance of 0.6 m in front of the unit.

During installation, remove the packaging material, corner protectors, and transport mounts from the pallet. Lift the unit off the pallet and position it, then level it by turning the adjustable support legs.

When setting up the product careful planning is advised in relation to the position of any living room to avoid unsatisfactory noise or vibration, which may occur due to the fans and/or heat pump combined with unsuitable installation conditions. It is recommended that the system is not installed immediately adjacent to a bedroom, and that it be fastened to a heavy structure such as concrete. To prevent sound or vibration transmission, anti-vibration materials and soundproofing may be necessary in the installation room.

The air used in the Combi Blueline unit should not be polluted with aggressive substances like ammonia, sulphur, or chlorine, as these can damage the cooling system components.

Connecting to a Water Mains

During installation, to ensure that there is sufficient pressure and water where the water is drawn, take into consideration the pipe dimensions in relation to the existing water pressure and pressure loss.

The aspects of the installation that have to do with water must comply with the local water supply regulations. The water pipes to be used in the hotwater installation must be approved for drinking water. Take into consideration the corrosive properties of the materials used to avoid damage.

As with all pressurised containers, the tank of the unit must be fitted with an approved safety valve and an approved check valve on the supply side (always check the local requirements).

The inflow of fresh cold water and the outflow of hot water take place underneath the tank (3/4" RG connection). The maximum operating pressure is 10 bar, and the maximum operating temperature is 65 °C.

If necessary, the supply pipe must be fitted with a pressure reduction valve and possibly with a filter.



When fitting the piping in the dwelling, avoid contaminating the pipes. If required, flush the pipes with clean water before connecting the unit.



When fitting pipes, take care not to twist the pipe connections. Use a pipe wrench to apply counter pressure.



If recirculation is not used, make sure that the recirculation pipe connection is fastened securely.



Due to the efficient cooling capacity of the Combi Blueline unit, the supply air temperatures can reach temperatures below the dew point which in some cases may lead to condensate forming outside the supply air ducts. It is advised to insulate the supply air pipework against condensation and/or to maintain a suitable level of airflow that prevents the supply air temperature to drop below the dew point.

Connecting to Condensate Drain

A significant amount of condensate will form due to the cooling of the air that passes through the heat exchanger. The condensate drain from the supply and the extract air side of the unit is fitted with hoses that can be looped to form a condensate watertrap. The end of the hose will have to be connected to a floor gully or a drainage system.

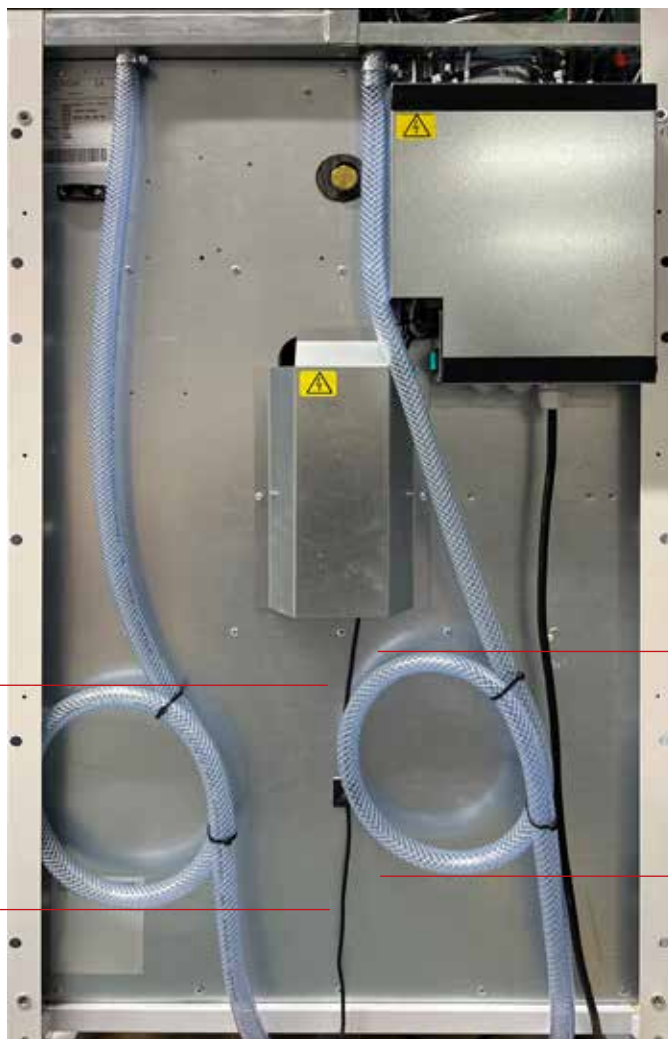
To ensure proper operation of the Combi unit, ensure that the the two watertraps hold at least 100 mm watercolumn.

Ensure that the hose drops at least 1 % downward to the drain to ensure sufficient draining of condensate.

Depending on air humidity, the amount of condensate formed can reach 1 l/h.

100 mm

100 mm



Duct connections

On the top of the unit a sticker indicating the connections of the Combi has been fitted.

Supply Air

The ducting system leading from the unit to the rooms of the house.

Extract Air

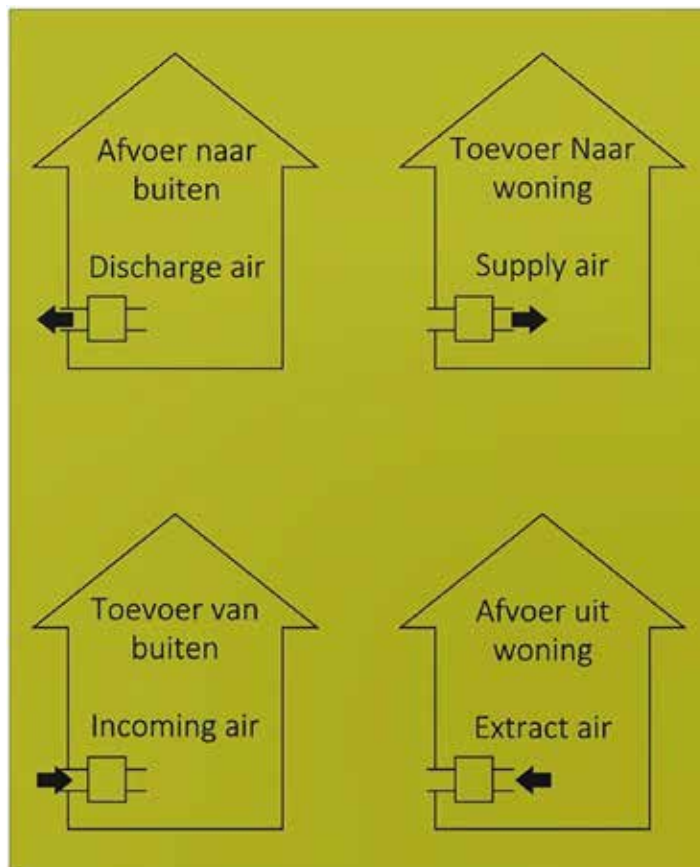
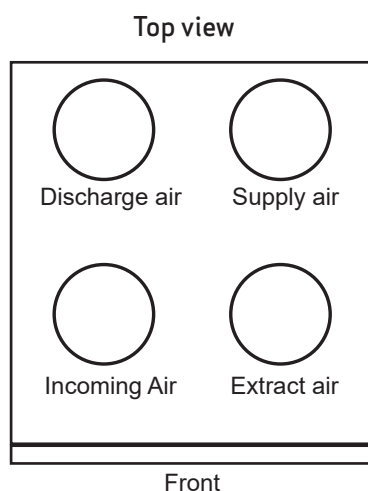
The ducting system leading from the house wet rooms to the unit.

Incoming Air

The ducting system leading from the fresh-air roof cowl/ fresh-air grating outdoors to the unit.

Discharge Air

The ducting system leading from the discharge air roof cowl/discharge air grating to the unit.



Ducting System

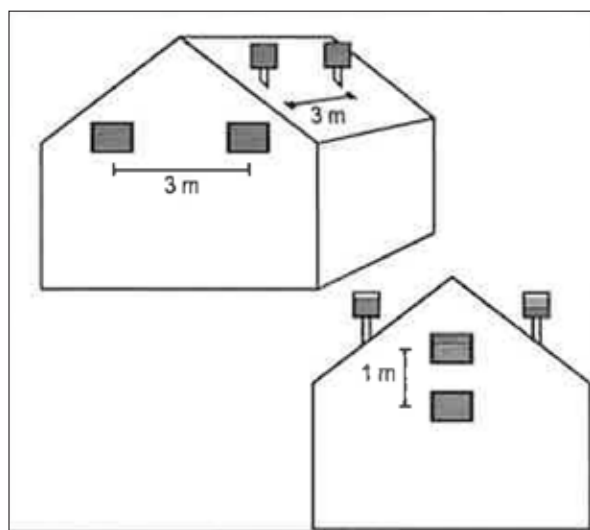
To build an airtight and durable ducting system, we recommend that the ducting system be made from spirally flanged pipes using fittings with a rubber ring seal.

To keep the noise level from the unit satisfactorily low, always mount silencers on the supply air and extract air ducting systems between the unit and the individual rooms of the house.

To prevent the air intake and extract valves/grills from generating any noise, it is recommended that air speeds in the ducting will be kept sufficiently low.

Insulation of Ducts in Cold Spaces

To take advantage of the high heat recovery potential of the unit (efficiency), it is necessary to insulate the ducts properly.



Supply Air and Extract Air Ducts

To minimise heat loss from the ducting system in cold lofts, insulate the supply air and extract air ducts with a minimum of 100 mm insulation. If insulation form alternative (A) is used, it is recommended that it takes the form of two layers of 50 mm lamella mats with paper or foil externally and staggered joints between the two layers. If the ducts are laid on the rafter foot, alternative B may be used. The insulation must always be tightly packed around the ducts.

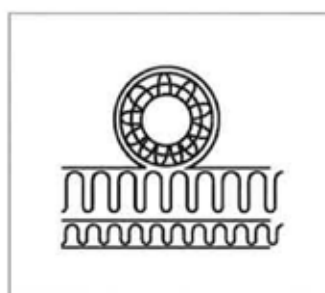
Fresh Air and Discharge Air Ducts

It is recommended that fresh air and discharge air ducts be insulated with a minimum of 50 mm insulation followed by aluminium foil. The fresh air duct is insulated to prevent warm air in the loft from heating up the fresh air in the summer.

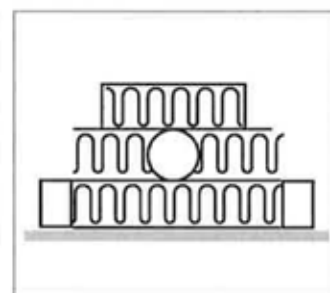
To avoid condensation damage, make sure that the place where the discharge air duct passes through the roof or the gable end is sealed well.

When placing outdoor air and exhaust air hoods/gratings, care must be taken not to short-circuit the two airflows, thus causing exhaust air to avoid being sucked back in. It is recommended that gratings be placed on the north or east side of the house for optimal comfort in homes/ apartments. Minimum distance: 3 or 1 meter depending on orientation of the grates. Ensure that the fresh air intake is not affected by sun heating of roof and fresh air intake.. Please refer to drawing

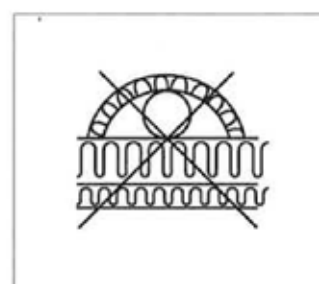
Refer to your local distributor for guidance on national insulation directives.



Duct insulation, alt. A



Duct insulation, alt. B



Incorrect duct insulation

Insulation of Ducts in Heated Spaces

Genvex recommends, as follows:

Supply Air and Extract Air Ducts

If the air ducts are installed in heated rooms, insulate the supply air and extract air ducts with 50 mm of insulation followed by aluminium foil.

Supply air and extract air ducts passing through heated spaces in dwellings do not require insulation unless cooling, a bypass or an earth heat exchanger is used. In this case, the supply air duct must be insulated.

Alternatively 13 mm vapor tight insulation – eg armafex – can be used.

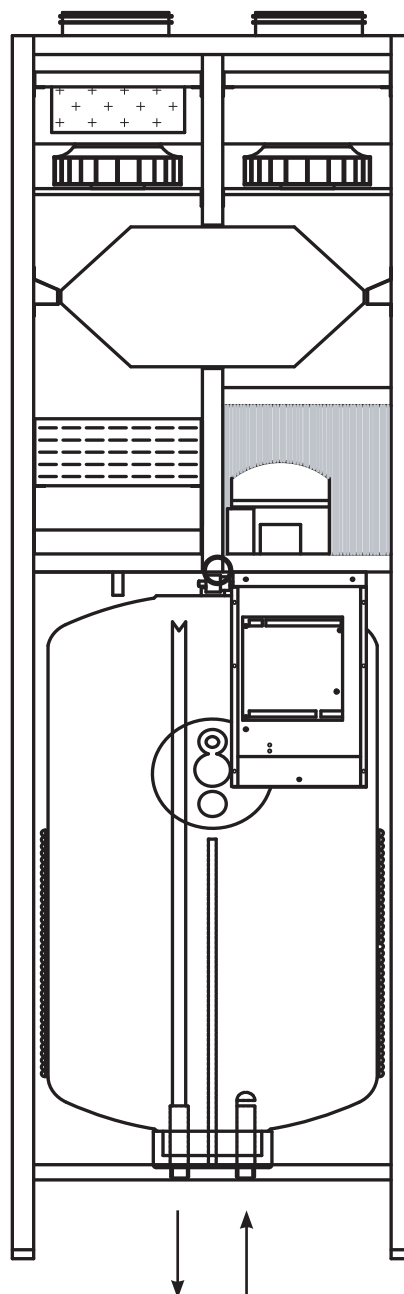
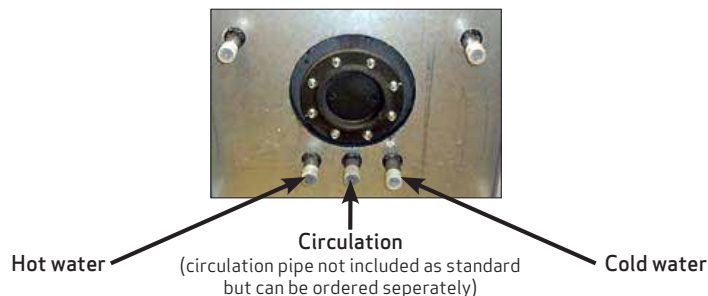
Fresh Air and Discharge Air Ducts

Insulate the fresh air and discharge air ducts in warm lofts and heated rooms in dwellings with a minimum of 50 mm insulation. Also cover the insulation externally with plastic film or aluminium foil to avoid formation of condensate in the insulation. Refer to your local distributor for guidance on national insulation directives.

Water Connection

The following connections are located at the bottom of the hotwater cylinder:

- 3/4" RG branch pipe for: Cold water/Recirculation/Hot water



Electric Water Heater/Sensor/Anode/Thermostat

These are placed on the bottom front of the unit, behind the front cover and underneath a steel plate.

The electric backup immersion heater will ensure that additional heating capacity can be applied if required. This could be beneficial for example if the full capacity of the Combi unit is dedicated to room heating or cooling. The activation of the electrical backup heater in this case will ensure that domestic hotwater can be produced simultaneously.

The safety thermostat will trip at 80 °C and ensure that the electrical water heater will not activate until the safety thermostat has been reset. Resetting the thermostat is done by pressing the small button on the thermostat.

The anode protects the domestic hotwater cylinder against corrosion and should be checked every 2 years to ensure that sufficient protection is present.

To check if the anode protection is intact, remove the ground connection of the domestic hotwater cylinder and use a multimeter to check if the anode current is greater than 0,3 mA by measuring directly on the anode and the ground connector.

Between the anode and electrical immersion heater, a sensor pocket for the temperature sensor switching the electrical heater on and off is located. Do not remove the temperature sensor in the sensor pocket as this will prevent the Combi controller from shutting down the electrical heater if the temperature in the cylinder is sufficient.



Electrical
water heater

Safety
thermostat

Temperature
sensor T7

Anode

Electrical Installation

The connection to the mains must be performed by a certified electrician. (See the enclosed electrical diagram).

On the top of the unit it is possible to connect an internet connection for the connectivity features of the Combi (see position 5 on the illustration below).

Furthermore a Optima Touch display can be connected (see position 6 on the illustration below).



If the pre-installed 1.8 metre cable for the Optima Touch display is not long enough, it is possible to replace this with a 4-core 0.25 mm² twisted pair cable with a length of up to 50 metres.



The unit may only be operated with a full tank.



The unit must always be disconnected from the electrical power source before the front hatch is dismantled. Once the unit has been disconnected from the mains, wait until the fan has come to a standstill before opening the hatch.



Do not drill any holes in the unit.

System Inspection and Fine-Tuning

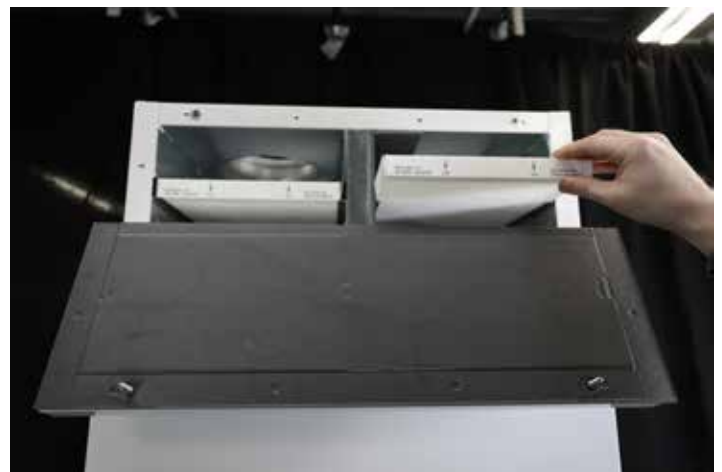
To ensure optimal operation of the system, fine-tune it first using professional air-measuring equipment.

Check the following points, while keeping in mind that the system can be put into operation before the fine-tuning.

1. Check that the system has been mounted correctly and that all ducting has been insulated in accordance with the instructions.
2. Check that the various hatches can be opened so that it is possible to service and maintain the unit.
3. Check that the filters are clean (they can be dirty after installation), and replace if necessary before fine-tuning.
4. Check that the condensation drainage is mounted correctly with a water trap and that this is protected against frost.
5. Pour 1 l of water into each of the condensate trays and check that the condensate flows away efficiently into the drain. Ensure that both of the watertraps contain 100 mm watercolumn.

Default setting if the system is started up prior to fine-tuning:

- Adjust all supply air valves so that the valve which is closest to the unit is open at 3 turns from the closed position, while the one furthest away is open at 8 turns from the closed position.
- Then open the valves in between at 4 to 7 turns depending on how close they are to the unit.



Filters can be replaced by removing the two top screws from the filterlid. the filterlid can then be opened to access the filters inside the Combi unit.

Optimal Fine-Tuning of the System

Use air-measuring equipment. Check that all 5 items in the section above have been carried out before performing the fine-tuning. Then put the system into operation.

Set up the system for basic ventilation, i.e. speed 2. To reduce energy consumption as much as possible, first adjust the overall atmospheric volume to the desired level by changing the speed settings in the Service Menu.

Then fine-tune the supply air and extract air valves with the air-measuring equipment. Remember to lock the valves when performing the fine-tuning and to turn the conducting plate on the supply air valves so that air blows in the right direction.

Finally, recheck and fine-tune the overall atmospheric volume by adjusting the speeds for Step 2 in the Service Menu.

Then adjust Step 1 and Step 3 to an appropriate interval in relation to Step 2.

Please be aware that the airflow required during heatpump operation can differ from when only ventilation is required.

Requirements to the Hot Water Circuit

The following materials can be used for the hot water installation:

- Copper
- Stainless steel
- Brass
- Synthetic materials

This naturally depends on the materials that have already been used in the water circuit (of the dwelling). Incorrect material combinations may result in corrosion damage.



This requires particular attention when galvanised components and components containing aluminium are used.

Initial Operation of the Water Circuit

- Fill the tank via the connector spigot and then air it out by leaving one of the uppermost hot water spigots open until no more air comes out.
- Recheck the entire water circuit for leaks.
- Connect the unit to the mains.

Inspect all connections of the water circuit for leaks after start-up.

Cooling Circuit

The unit is delivered as a preassembled unit. No work needs to be done on the cooling circuit. The control unit will automatically assume control of all functions and start up the compressor, fan, etc. in order to maintain the set water temperature.

Energy-Saving Tips

Do not set the water temperature higher than necessary. The lower the temperature, the higher the efficiency of the unit. Only use high temperatures when necessary

Fan Operation Tips

Do not ventilate more than necessary. Over-ventilation often results in very low humidity inside the dwelling, which causes discomfort. In addition, it is a waste of energy to over-ventilate. However, always make sure that there is compliance with the required minimum atmospheric volume.

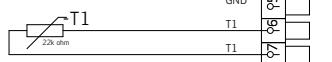
Rechecking

After installation, we recommend that you check that all connections are water and airtight and that condensed water will flow off without a hindrance.

ELECTRICAL DIAGRAMS

Optima 314

Sensor T1 Supply air



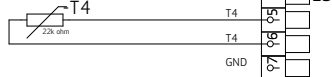
Sensor T2 Extract air



Sensor T3 Outdoor air



Sensor T4 Exhaust air



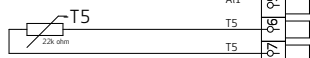
Potential free input for optional:
Humidistat, Extractor hood

External stop

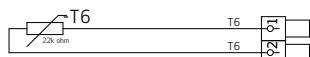
Sensor T9 solar collector / option



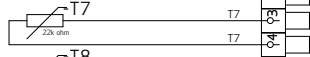
Sensor T5 Before evaporator



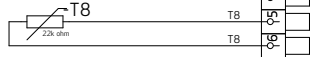
Sensor T6 Evaporator



Sensor T7 Hotwater top cylinder



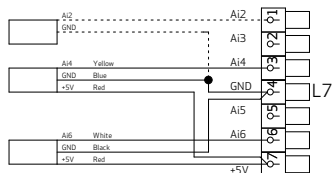
Sensor T8 Hotwater bottom cylinder



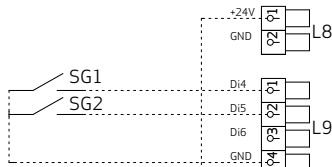
Solar cell input 0-10V

Humidity sensor

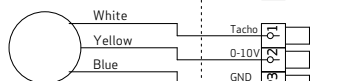
Pressure transmitter 0-10 Bar
(Low pressure)



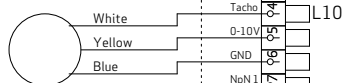
SG Ready input



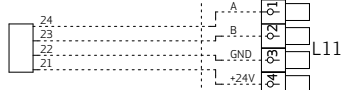
Supply air fan 0-10V + Tacho



Extract air fan 0-10V + Tacho

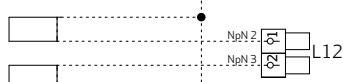


Modbus Master:
- ES1048B - Mixing valve control box
- ES1048B - Fire Control box

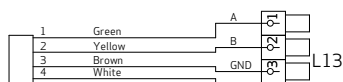


Modulating Preheating

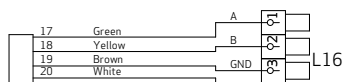
Modulating Reheating



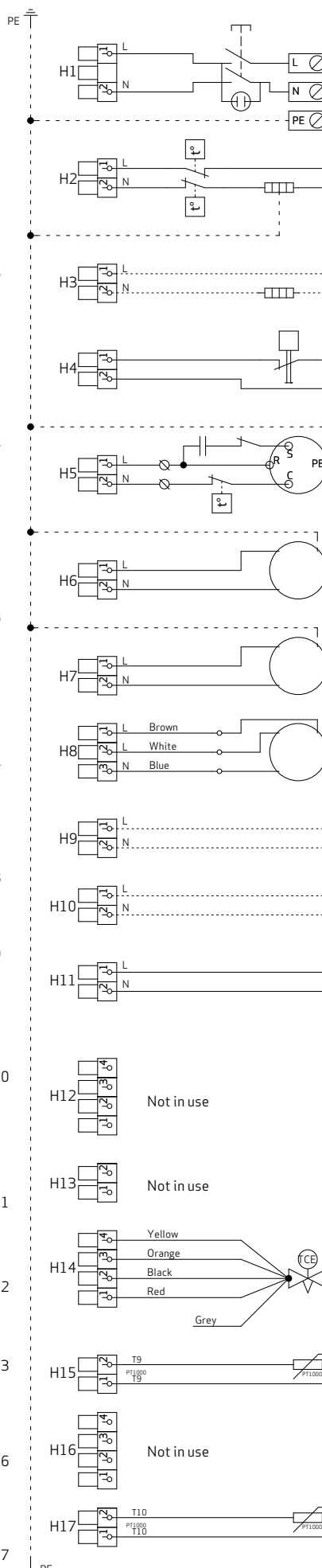
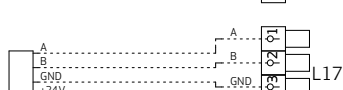
Modbus Master:
- ES1086 Optima 314 Touch Display



Modbus Master:
- ES1095 Combi Blueline relay box



Modbus Slave:
- ES1099 - CO2 Sensor
- ES1061 - Wireless receiver
f. CO2 sensor
- CTS



Mains connection
1x230VAC, L-N-PE
Max: 13A

DHW heater 1000W

Electric Pre/re-heater
Max 1200W

High pressure switch

Compressor 230V

Supply air fan 230V

Extract air fan 230V

Bypass
Belimo
CM230-F-R
ON/OFF

Aux. relay H9
1x230V 50Hz
ONLY control current

Aux. relay H10
1x230V 50Hz
ONLY control current

Supply for ES1095

Not in use

Not in use

Electronic Expansion Valve

E-valve sensor T10 @ Condenser

Not in use

E-valve sensor T11 @ Evaporator

L1 + L2:
Sensor T1

L3:
Sensor T2, T3, T4

L4 + L5:
Sensor T5, T9
Hygrostat
External stop

L6:
Sensor T6, T7, T8

L7:
Humidity sensor
Solar cell 0-10V
Pressure transmitter

L8:
+24V terminal

L9:
Smart Gridt

L10:
Supply air fan 0-10V + Tacho
Exhaust air fan 0-10V + Tacho

L11:
Modbus Master:
- ES1048B - Mixing valve control box
- ES1048B - Fire Control box

L12:
Modulating Preheating
Modulating Reheat

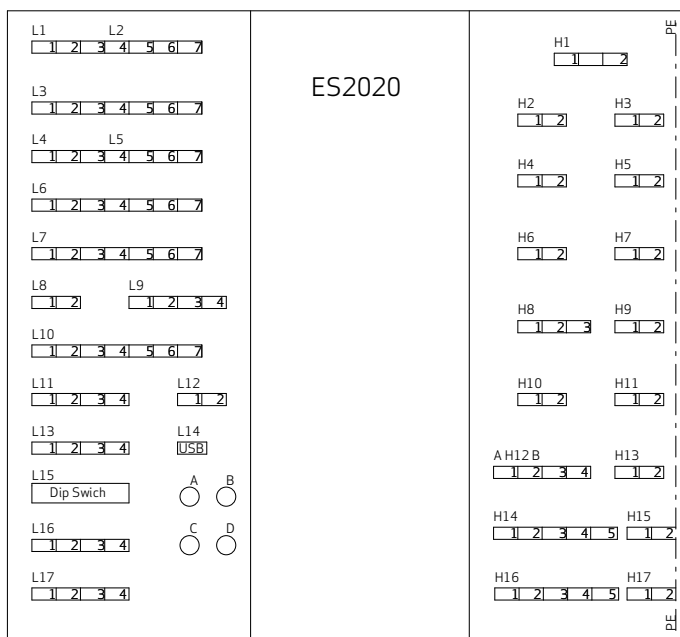
L13:
Modbus Master:
- ES1086 Optima 314 Touch Display

L14:
Modbus USB

L15:
DipSwitch

L16:
Modbus Master:
- ES1095 Combi Blueline relay box

L17:
Modbus Slave:
- ES1099 - CO2 Sensor
- ES1061 - Wireless receiver
f. CO2 sensor
- CTS



H1:
Mains connection 230V L-N-PE Max 13A

H2:
Electric immersion heater 230V

H3:
On/Off Electric Pre/reheater 230V

H4:
High pressure switch

H5:
Compressor 230V

H6:
Supply air fan 230V

H7:
Extract air fan 230V

H8:
Bypass 2x230V

H9:
AUX relay H9 230V

H10:
AUX relay H10 230V

H11:
Combi Blueline relay box ES1095 230V

H12:
Not in use

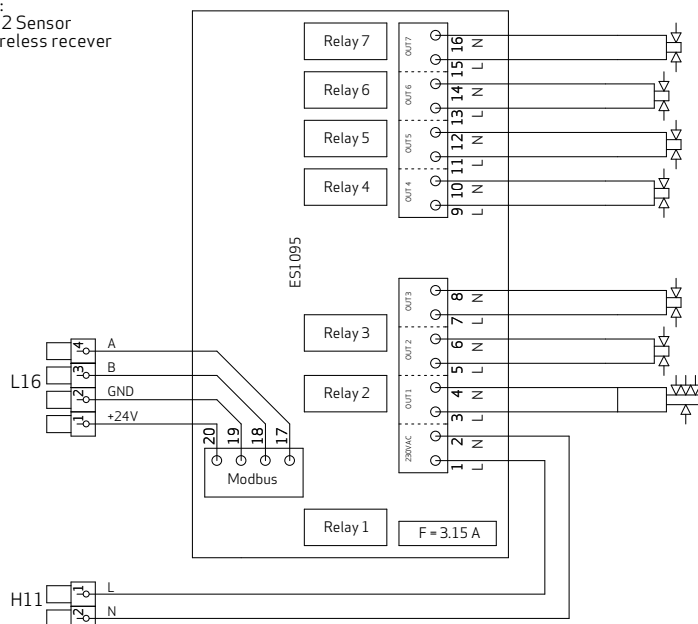
H13:
Not in use

H14:
Electronic expansion valve

H15:
Sensor T10

H16:
Not in use

H17:
Sensor T11



MA7 - Solenoid valve Condensor out - Room heating mode

MA6 - Equalization valve - Water heating mode

MA5 - Equalization valve - Room heating mode

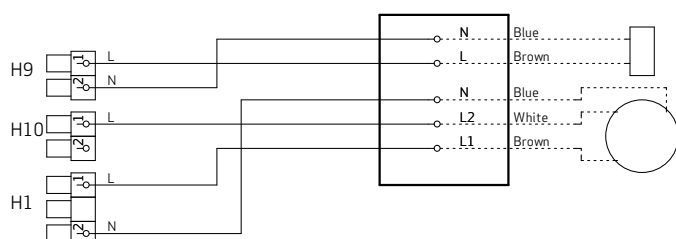
MA4 - Solenoid valve Defrost

MA3 - Solenoid valve - Water heating mode

MA2 - Solenoid valve Condensor in - Room heating mode

MA1 - 4-way valve - Cooling mode

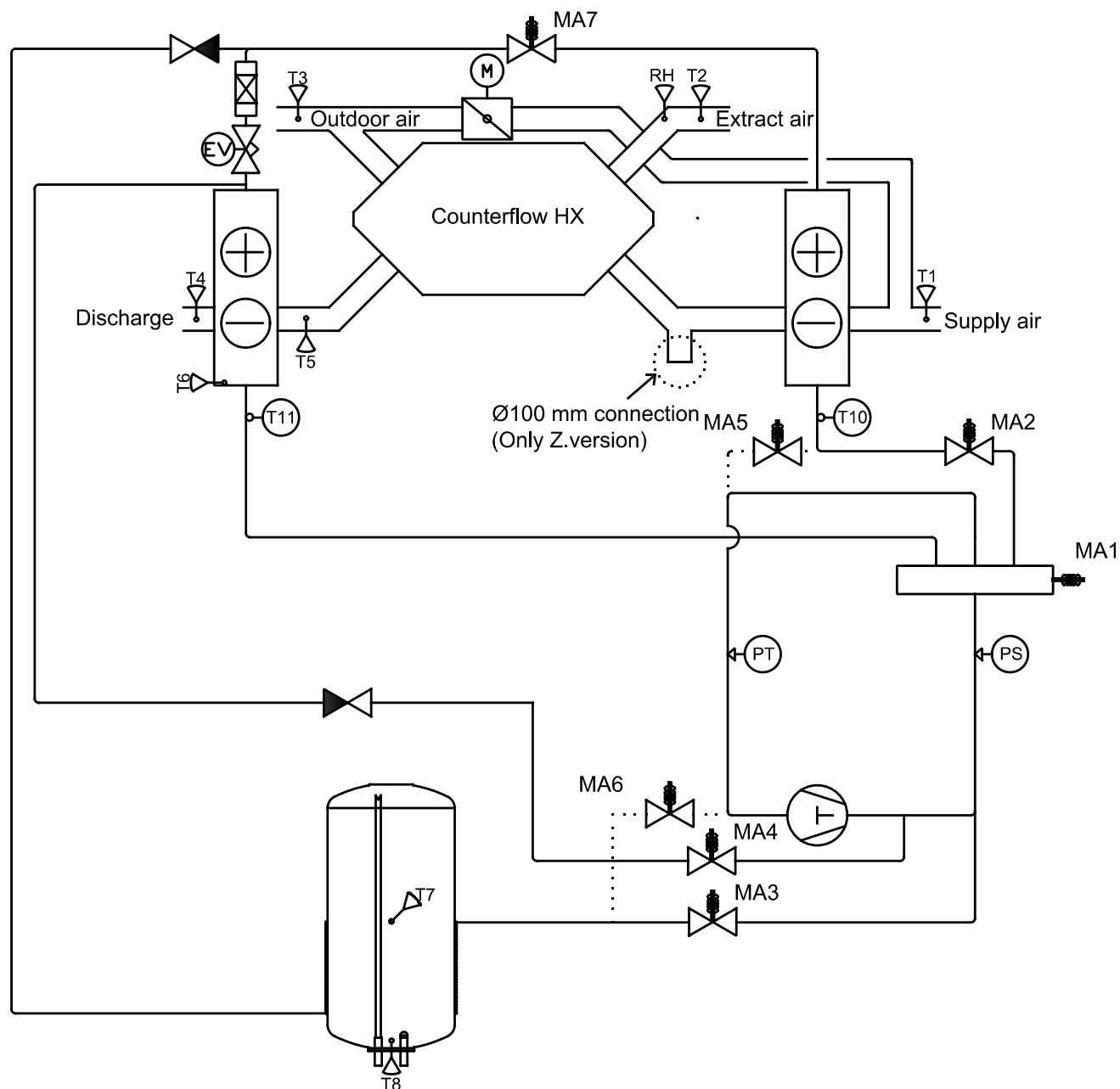
Only for Combi Blueline Z



H9 - Re-heater Signal

H10 - Zone Temp. Control

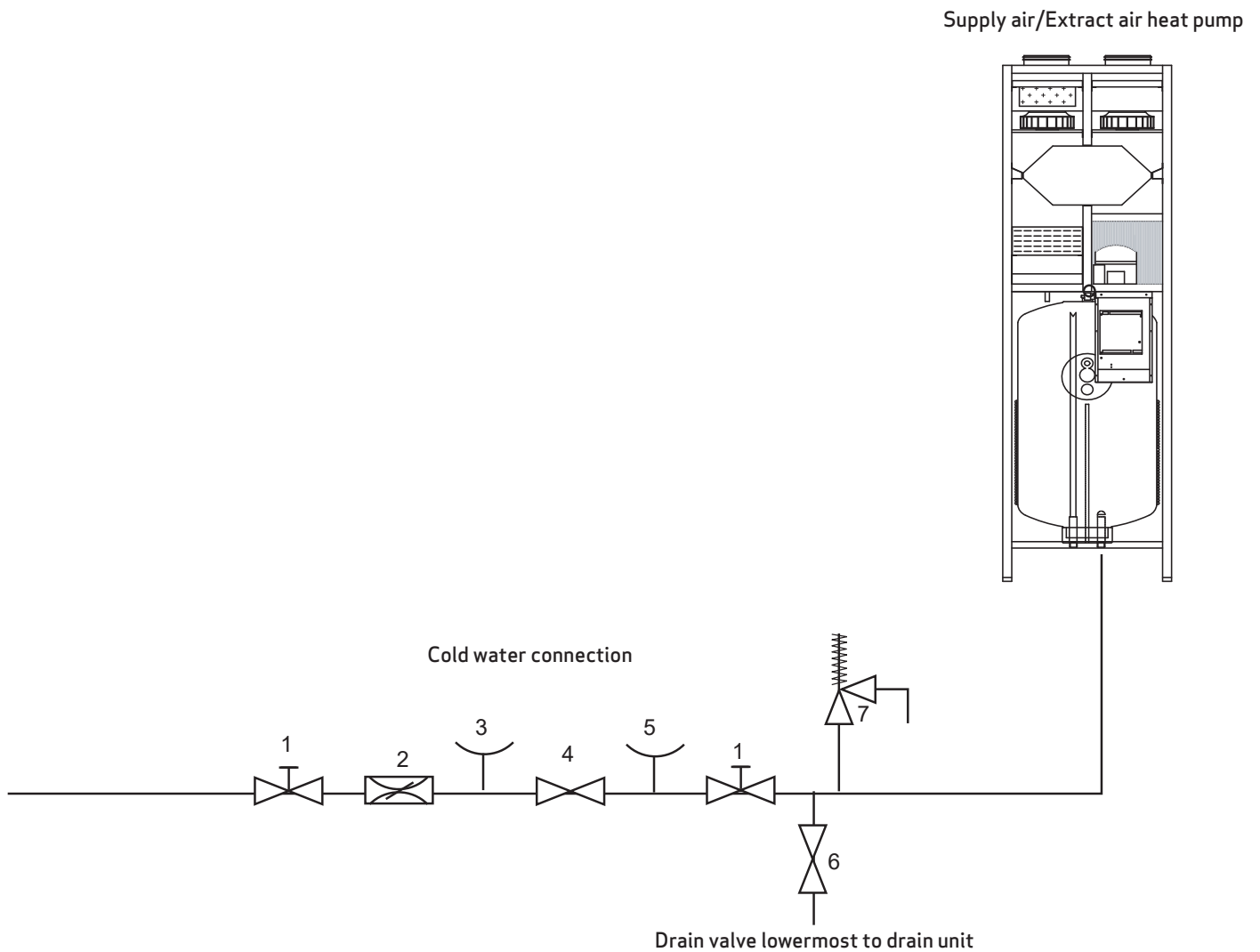
FLOW DIAGRAM



Sensors

- T1: Supply air
- T2: Extract
- T3: Fresh Air
- T4: Discharge air
- T5: Before cooling coil
- T6: Cooling coil
- T7: Tank, top
- T8: Tank, bottom
- RH: Humidity sensor
- T10: Superheat temp sensor (cooling mode)
- T11: Superheat temp sensor (heating mode)

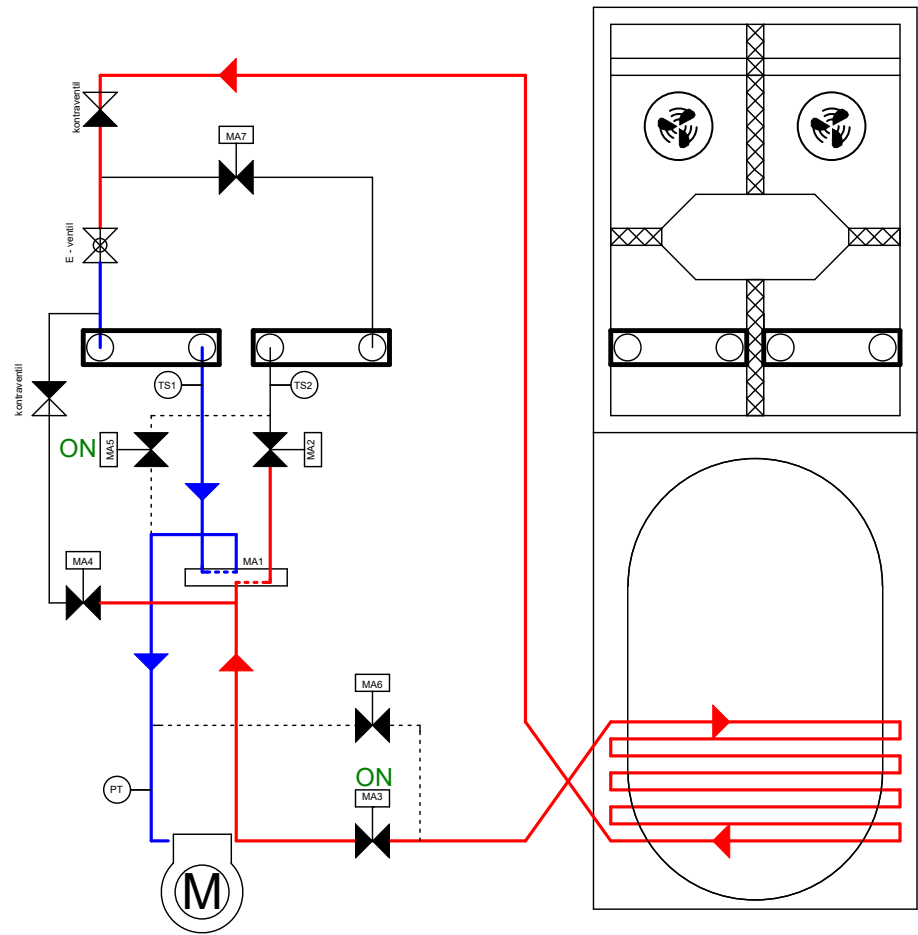
HYDRAULIC CONNECTIONS



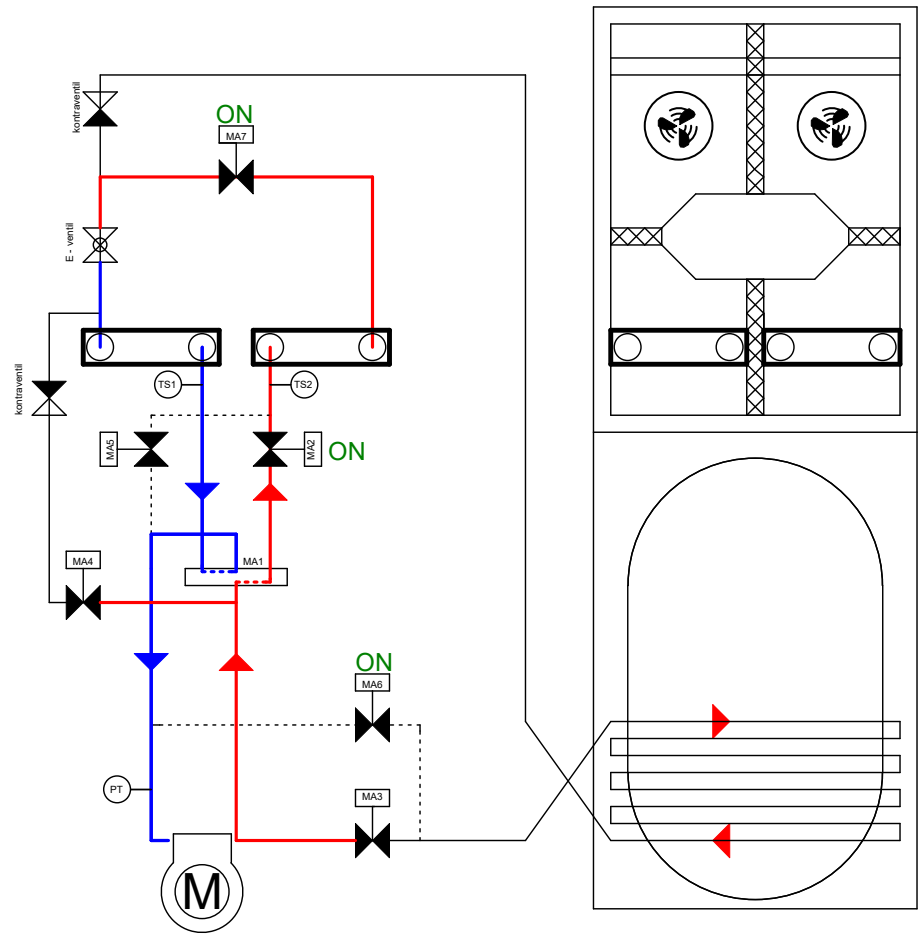
- 1: Check valve
- 2: Pressure reducing valve
- 3: Test valve
- 4: Non-return valve
- 5: Pressure gauge connection piece
- 6: Drain valve
- 7: 10.0 bar safety valve

MODES OF OPERATION

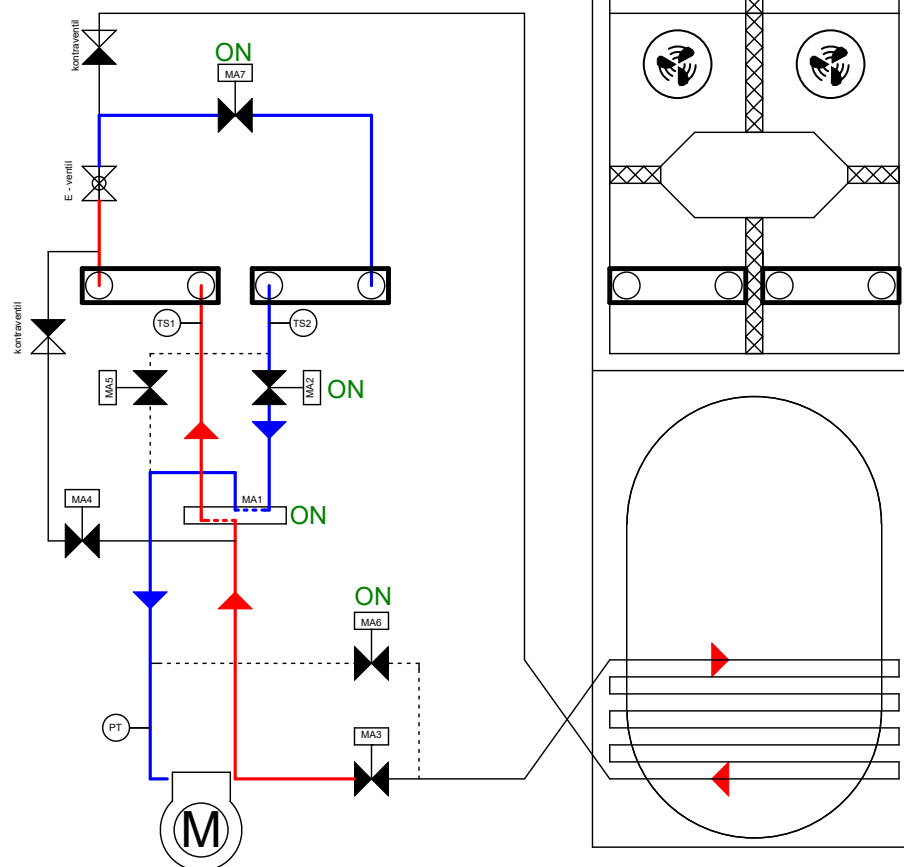
Waterheating



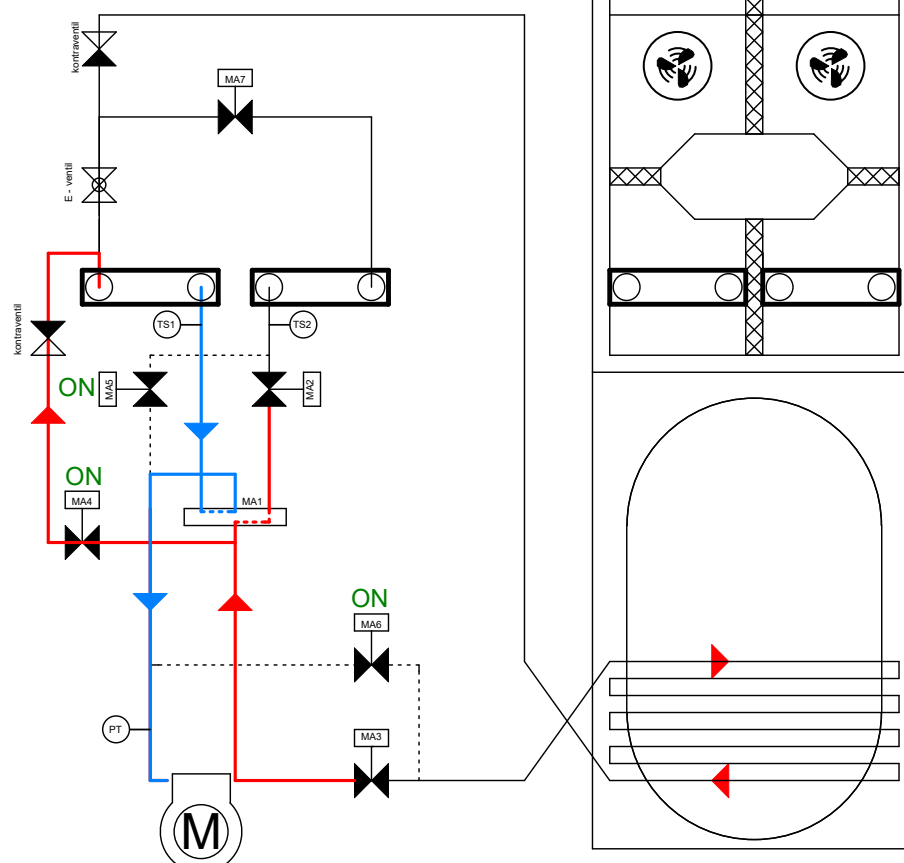
Airheating



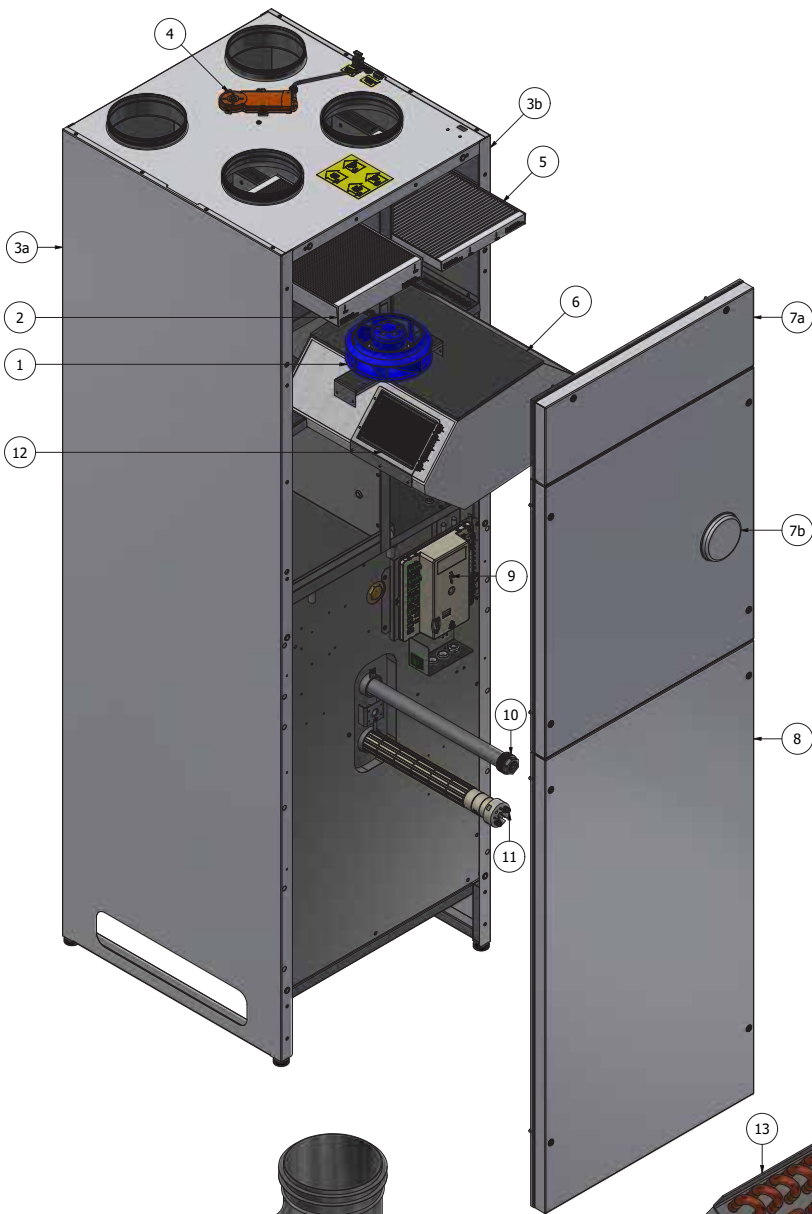
Active air cooling



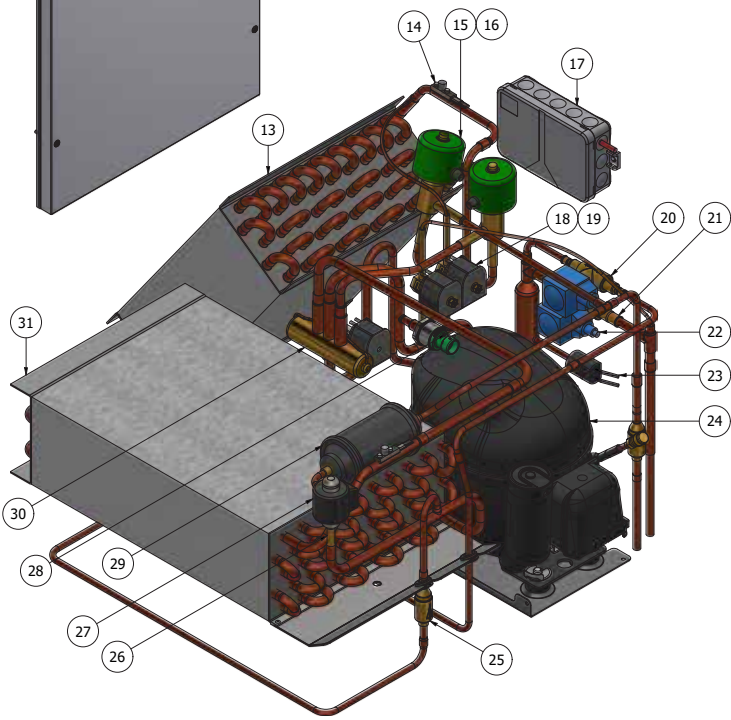
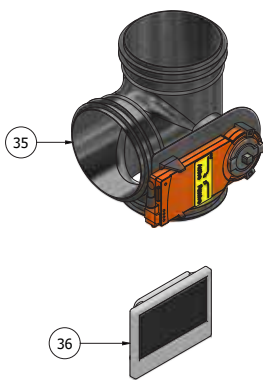
Defrosting evaporator



SPARE PARTS



Pos.	Stock nr.	Part
1	99070056	Fan 90 W
2	99060701	Filter - ePM1 / F7 - 50 mm
3a	99069779	Sideplate L+R, RAL 9016
3b	99074022	Sideplate R - Zone control, RAL 9016
4	99060537	Bypass motor
5	99060776	Filter - Coarse / G4 - 25 mm
6	99041162	Heat exchanger - ALU
7a	99043062	Top Front door
7b	99074039	Top front door with zone control connection
8	99042897	Bottom Front door
9	99074074	Optima 314 controller
10	8156441813	Anode
11	8156442003	Electrical heating element 1000 watt
12	99069910	Electrical preheater
13	99061049	Evaporator/condensor
14	99074007	Temperature sensor, T10/T11
15	99074000	Coil for MA2/MA7
16	99074001	Bi-flow valve- refrigerant
17	99074075	Relay box
18	99061159	Valve - Pressure compensation
19	99061187	Coil for valve MA1/MA5/MA6
20	99061168	Valve 1/4 - Defrost - refrigerant
21	99061167	Valve 3/8 - Water/Air - refrigerant
22	99042373	Coil - Water/Air -for MA3/MA4
23	99061149	High pressure switch
24	99061022	Compressor
25	99074004	Check valve - refrigerant
26	99074005	Electric exp. valve
27	99074010	Coil for Elec. Exp. Valve
28	99074003	Pressure transmitter
29	99074006	Bi-flow dry filter
30	99061220	4-way valve
31	99061052	Evaporator
32	99045132	Temp. Sensor 2200 mm T1, 2, 3, 4, 5, 7, 8
33	99022430	Humidity sensor 1300 mm
34	99045116	Temp sensor evaporater, T6
35	99074109	100 mm T piece & motor
36	99074073	Optima Touch Display



Please note:
Component configurations might vary depending on the current model. Please state the serial number of the unit when ordering spare parts.

DECLARATION OF CONFORMITY

The declaration of conformity can be found on our website: www.genvex.com

THE AIR WE BREATHE

All
Genvex
systems are
rated with
energy label
A

As of 1 January 2025, Genvex has merged with our parent company METRO THERM into one company under the name METRO THERM A/S.

With the merger, both physical addresses will be retained: The head office and production for METRO THERM will remain in Helsingør, while administration and production for Genvex and KVM-Conheat will remain at the Haderslev address as a subdivision.

The three strong brands – METRO THERM, Genvex and KVM-Conheat – remain unchanged and will continue to be treated as independent brands under METRO THERM A/S.



Genvex – the original Danish ventilation system

Genvex is a true Danish original. We started producing ventilation systems in 1978 and are still the front runners when it comes to development and production of the most innovative and durable ventilation systems on the market.

Our units are installed in thousands of homes, providing clean, fresh air free from pollen, dust and harmful particles. They help lots of families with maintaining a healthy and comfortable indoor climate and prolong the longevity of the house itself. With very high heat recovery rates, a Genvex system lets you recover and reuse up to 95 % of the heat inside your home. As a result, our units provide a strong contribution to energy savings in both in family homes and in society as a whole.

Please visit www.genvex.com to see a list of our distributors



08:941-2601