User manual EN
«Translated from original instructions»

Manuale d'uso IT
«Istruzioni originali»

Mode d'emploi FR
«Traduit des instructions originales»

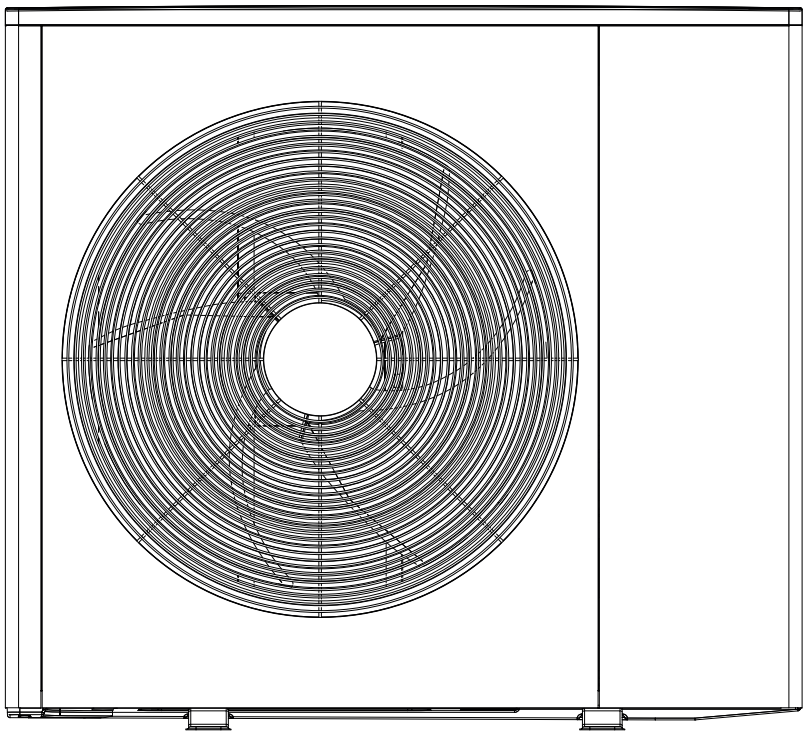
Benutzungsanleitungen DE
«Aus der Originalanleitung übersetzt»

Instrucciones de uso ES
«Traducido de las instrucciones originales»

Instruções de uso PT
«Traduzido das instruções originais»

Air/water heat pump
Pompa di calore aria/acqua
Pompe à chaleur air/eau
Luft/Wasser-Wärmepumpe
Bomba de calor aire/agua
Bomba de calor ar/água

GENERA (ANGHP)



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EN

1 - Important information

The manual must be left with the customer.

For the latest version of the product's documentation (manuals, declaration of conformity, etc.), please consult the website (see the back of the manual for the address).

This manual contains information for installation function and maintenance. For more technically detailed information, please refer to the Installation Manual.

Installation data

Product	
Serial number	
Installation date	
Installer	

Accessories	

Serial number must always be given.
Certification that the installation is carried out according to instructions in the accompanying installer manual and applicable regulations.

Date:_____ Signed: _____

Symbols

Explanation of symbols that may be present in this manual.

NOTE

This symbol indicates danger to person or product.

CAUTION

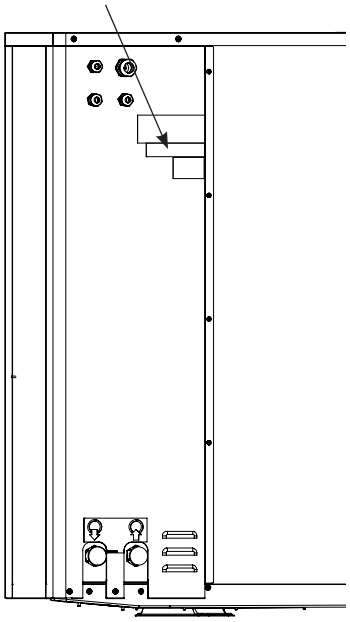
This symbol indicates important information about what you should observe when maintaining your installation.

TIP

This symbol indicates tips on how to facilitate using the product.

Serial number

The serial number can be found on the rear panel.

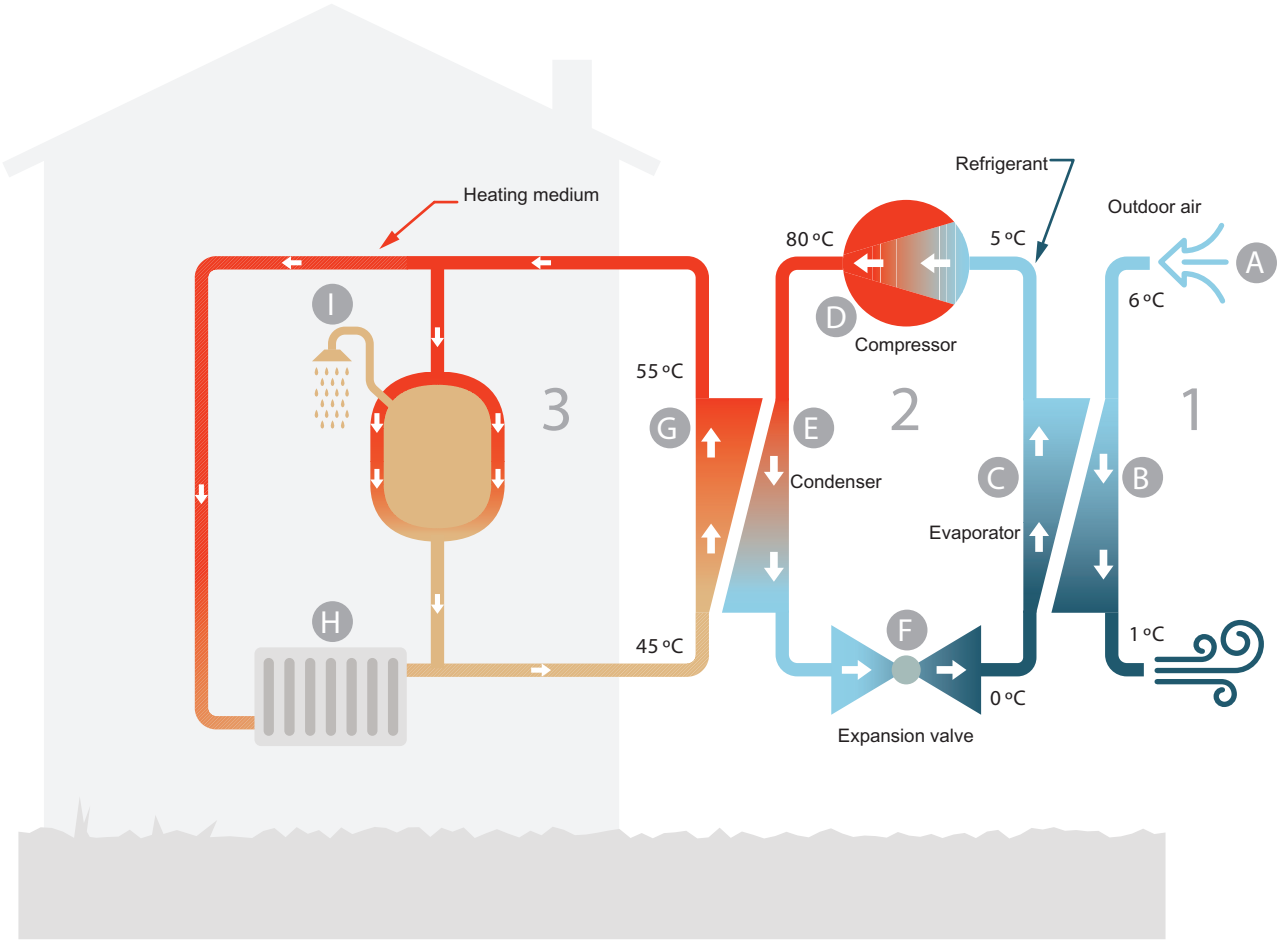


CAUTION

You need the product's serial number for servicing and support.

2 - Installation function

An air/water heat pump installation uses the outdoor air to heat up a home. The conversion of the outdoor air's energy into residential heating occurs in three different circuits.
From the outdoor air (1) free heat energy is retrieved and transported to the heat pump. The heat pump increases the retrieved heat's low temperature to a high temperature in the refrigerant circuit (2). The heat is distributed around the building in the heating medium circuit (3).



The temperatures are only examples and may vary between different installations and time of year.

Outdoor air

A The outdoor air is sucked into the heat pump.

B The fan then routes the air to the heat pump's evaporator. Here, the air releases the heating energy to the refrigerant and the air's temperature drops. The cold air is then blown out of the heat pump.

Refrigerant circuit

C A gas circulates in a closed system in the heat pump, a refrigerant, which also passes the evaporator. The refrigerant has a very low boiling point. In the evaporator the refrigerant receives the heat energy from the outdoor air and starts to boil.

D The gas that is produced during boiling is routed into an electrically powered compressor. When the gas is compressed, the pressure increases and the gas's temperature increases considerably, from 0°C to approx. 80°C.

E From the compressor, gas is forced into a heat exchanger, condenser, where it releases heat energy to the indoor module, whereupon the gas is cooled and condenses to a liquid form again.

F As the pressure is still high, the refrigerant can pass an expansion valve, where the pressure drops so that the refrigerant returns to its original temperature. The refrigerant has now completed a full cycle. It is routed to the evaporator again and the process is repeated.

Heat medium circuit

G The heat energy that the refrigerant produces in the condenser is retrieved by the indoor module's water, the heating medium, which is heated to 55°C (supply temperature).

H The heating medium circulates in a closed system and transports the heated water's heat energy to the house radiators/heating coils.

I The indoor module's integrated charge coil is placed in the boiler section. The water in the coil heats up the surrounding domestic hot water.

3 - Control of the heat pump

You control the heat pump via your control module (GENERA Controller).
See the Installer Manual of the control module.
During installation, the installation engineer adjusts the necessary settings for the heat pump in the control module, so that the heat pump works optimally in your system.

4 - Maintenance of the heat pump

Regular checks

When your heat pump is located outdoors some external maintenance is required.

NOTE

Insufficient maintenance can cause serious damage to the heat pump, which is not covered by the guarantee.

CHECKING GRILLES AND BOTTOM PANEL

Check regularly throughout the year that the grille is not clogged by leaves, snow or anything else.

You should be particularly vigilant during windy conditions and/or in the event of snow, as the grille can become blocked.

Also check that the drain holes in the bottom panel are free from dirt and leaves.

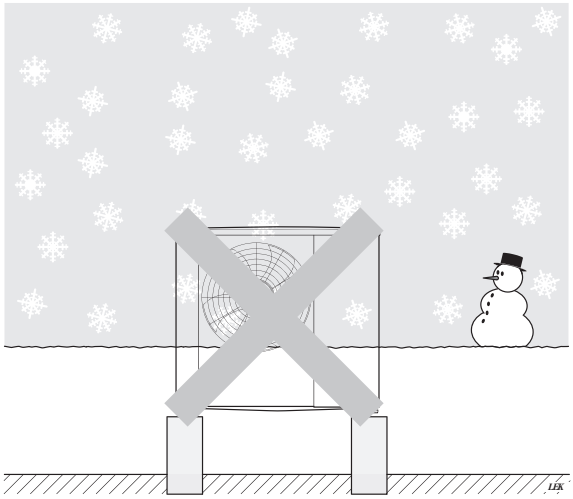
Regularly check that condensation is routed away correctly through the condensation pipe. Ask your installer for assistance if required.

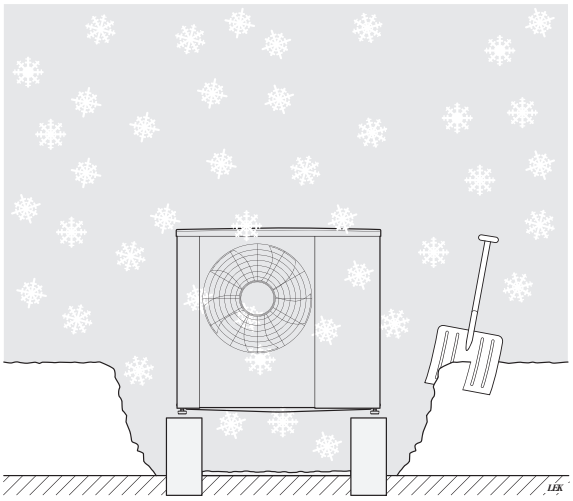
CLEANING THE OUTER CASING

If necessary the outer casing can be cleaned using a damp cloth.

Care must be exercised so that the heat pump is not scratched when cleaning. Avoid spraying water into the grilles or the sides so that water penetrates into the unit. Prevent the unit coming into contact with alkaline cleaning agents.

Keep free of snow and ice





In the event of long power cuts
In the event of prolonged power failures it is recommended that the part of the heating system located outdoors is drained. Your installer has installed a shut off and drain valve to facilitate this. Call and ask your installer if you are unsure.

Silent mode
The heat pump can be set to “Silent mode”, which reduces the heat pump’s noise level. This function is useful when the unit must be placed in noise-sensitive areas. The function should only be used for limited periods, because the heat pump might not reach its dimensioned power.

Updating the software
Information about updating software can be found in the Installer Manual of your control module.

5 - Disturbances in comfort

In most cases, control module notes a malfunction (a malfunction can lead to disturbance in comfort) and indicates this with alarms and action instructions in the display.



NOTE

Work behind covers secured by screws may only be carried out by, or under the supervision of, a qualified installation engineer.

Troubleshooting
If the operational interference is not shown in the display the following tips can be used:

BASIC ACTIONS
Start by checking the following:

- All supply cables to the heat pump are connected.
- Group and main fuses of the accommodation.
- The property’s earth circuit breaker.
- The heat pump’s fuse / automatic protection.
- The control module’s fuses.
- The control module’s temperature limiters.
- That the heat pump does not have any external damage.

WATER BELOW THE UNIT (LARGER AMOUNT)

- Fit an accessory KVR to divert condensation from the air/water heat pump.
- Check that the water drainage via the condensation pipe (KVR) is working.

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