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Foreword

Read this manual carefully before use.

This manual provides all the information required for safe and optimal operation and maintenance of the ComfoFond-L. The device is subject to continuous development and improvement. As a result, the ComfoAir 350 Luxe may slightly differ from the descriptions.

This manual has been compiled with the greatest care. However, no rights can be derived from it. In addition, we at all times reserve the rights to change the contents of this manual without prior notification.

Applicable pictograms
The following pictograms are used in this manual:

Point of attention.

Risk of:
- damage to the unit;
- performance of the unit is compromised if instructions are not observed carefully.

Risk of personal injury for the user.

Questions
Please contact the supplier if you have any questions. On the rear flap of this manual is a list with the contact details of the most common suppliers.

Introduction and safety

Congratulations, you are the owner of a ComfoFond-L, a fluid-driven ground-source heat exchanger from Zehnder. We wish you lots of comfort.

What is this unit for?
The ComfoFond-L is a fluid-driven ground-source heat exchanger (also known as a geothermal heat pump) which uses ground heat to preheat or cool outdoor air as required before it is supplied to the dwelling.

Safety instructions
Always comply with safety regulations in this manual. Personal injury or damage to the ComfoFond-L can arise from non-compliance with the safety regulations, warnings, comments and instructions in this manual.

- The ComfoFond-L may only be fitted, connected, commissioned and set up by a registered installer;
- Always follow the safety regulations, warnings, comments and instructions given in this manual;
- Store the manual in the vicinity of the ComfoFond-L for its entire working life;
- Modifications to the ComfoFond-L or its manual are not permitted;
- When carrying out any work on the ComfoFond-L, make sure the power is disconnected and cannot be inadvertently reconnected.

To disconnect the ComfoFond-L, you must unplug the ComfoAir Luxe to which it is connected.
2 Operating principles

The system comprises a number of components, including a ComfoAir Luxe heat recovery unit, a ComfoFond-L and ducting. These devices are controlled using the ComfoAir Luxe operating panel.

1. Brine loop pipework.
2. ComfoFond-L.
3. ComfoAir Luxe.

Brine loop pipes are laid in the ground and connected to the dwelling. In the winter the cold outdoor air is preheated, ensuring the ventilation system continues to operate effectively even at low temperatures. In the summer the warm outdoor air is precooled.

The ComfoFond-L is specially developed to operate in combination with a Zehnder ventilation system of type ComfoAir 350 Luxe or ComfoAir 550 Luxe.

3 Advantages

The ComfoFond-L helps to achieve the following:
- Increased comfort within the dwelling;
- Reducing the supply air temperature in summer;
- Increasing the supply air temperature in winter;
- Energy saving;
- Frost protection for the ComfoAir Luxe unit;
- Maintaining a balanced mechanical ventilation.

4 Operation

The ComfoFond-L is controlled by the ComfoAir Luxe to which it is connected. This runs entirely automatically based on preset parameters. These parameters are programmed by the fitter and if required can be adjusted by him. If the ComfoFond-L pump is switched on this will be indicated by the text “EWT” on the CC-Ease or CCLuxe of the ComfoAir Luxe.
CE Certification and warranty

Guarantee conditions
The ComfoFond-L is covered by a manufacturer's warranty for a period of 24 months after fitting up to a maximum of 30 months after the date of manufacture. Warranty claims may only be submitted for material faults and/or construction faults arising during the warranty period. In the case of a warranty claim, the ComfoFond-L must not be dismantled without written permission from the manufacturer. Spare parts are only covered by guarantee, if they were supplied by the manufacturer and have been installed by an approved installer.

The warranty becomes invalid if:
- The guarantee period has elapsed;
- The unit is used without filters;
- Parts are used that were not supplied by the manufacturer;
- Unauthorized alterations and/or modifications have been made to the unit.

Liability
The ComfoFond-L has been designed and manufactured for use in balanced ventilation systems incorporating Zehnder heat recovery systems. Any other application is seen as inappropriate use and can result in damage to the ComfoFond-L or personal injury, for which the manufacturer cannot be held liable. The manufacturer is not liable for any damage originating from:
- Non-compliance with the safety, operating and maintenance instructions in this manual;
- The use of components not supplied or recommended by the manufacturer (the responsibility for the use of such components lies entirely with the fitter);
- Normal wear and tear.

End of useful life
Consult with the supplier about what should be done with the ComfoFond-L at the end of its useful life. If the ComfoFond-L cannot be returned to the supplier, avoid disposing of it with the domestic waste, and ask your local council about the options for recycling the components or processing the materials in an environmentally friendly manner.

EC declaration of conformity
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EC declaration of conformity

Machine description: Ground-source heat exchanger: ComfoFond-L

Pressure Equipment Directive (97/23/EEC)

Zwolle, 02.12.10
Zehnder Group Nederland B.V.

E. van Heuveln,
Managing Director
Failure to carry out (periodic) maintenance on the ComfoFond-L ultimately compromises the performance of the system.

The ComfoFond-L should be inspected and cleaned annually by a specialist. To ensure a hassle-free lifespan for your ComfoFond-L, we recommend you take out a service agreement with an expert company.

The following maintenance may be carried out by the user:
- Replacing the filter;
- Checking the system pressure.

A concise explanation of these maintenance activities is given in the paragraphs below.

Ensure the ComfoFond-L has been disconnect from mains power before carrying out any maintenance work. To do this disconnect the power to the ComfoAir Luxe to which it is connected.

Bear in mind that the fluid circuit is pressurised.

The power to the ComfoAir Luxe should not be disconnected unless the ComfoFond-L or ComfoAir Luxe are to be taken out of service due to a serious malfunction, or for filter replacement or any other compelling reasons.

If the power to the ComfoAir Luxe is disconnected, mechanical ventilation of the dwelling will cease. This can lead to a build-up of moisture and results in problems with mould. Long-term deactivation of the ComfoAir Luxe must therefore be prevented.

For maintenance of the ComfoAir Luxe, please read the instructions in the ComfoAir Luxe manual. A copy of this manual can be obtained from Zehnder.

Replace the filter (at least) once every six months.

1. Disconnect the power to the ComfoAir Luxe.
2. Remove the handles (A) from the ComfoFond-L.
3. Remove the old filter (B) from the ComfoFond-L.
4. Slide the new filter back into the ComfoFond-L.
5. Click the handles (A) in the ComfoFond-L.
6. Return power to the ComfoAir Luxe.

Filters must be replaced with the original manufacturer’s filters only. These can be ordered from the supplier of the ComfoFond-L.
6.2 Pressure meter

Inspect the pressure in the ComfoFond-L at least once a year.

Check the pressure in the system on the manometer of the ComfoFond-L.

The pressure can vary over time due to temperature changes in the subsoil.

The ideal pressure is 1.5 bar.

Contact the fitter if the pressure is below 0.5 bar or above 2.5 bar. Note the indicate pressure.

7 Malfunctions

The ComfoFond-L does not have a digital control system that indicates malfunction codes. The ComfoAir Luxe has a digital control system that indicates malfunction codes. The ComfoAir Luxe manual states what the malfunction codes mean and what to do in the event of a malfunction. A copy of this manual can be obtained from Zehnder.