Functional declaration

This declaration applies to the function and normal operating of fresh air units sold by IKM A/S.

Requirements

In situations where the water flow with heated water supplying the heating element stops, and the outside fresh air temperature is below the freezing point, the water inside the pipes of the heating element may freeze due to the flow of cold fresh air.

The ventilation units must be able to handle this situation without damage in case of a freezing of the water.
If the unit, in case of absence of the water flow, should freeze, this must revert to normal operation when the heating element is no longer frozen and the water flow is restored.

Demands

In order to avoid damage to the heating element of the Comfort unit, thermostat valve and other components in case of a freezing situation, the following demands for the installation must be met:

1. Stop valves for connecting pipes to the Comfort unit may not be closed.
2. The room temperature where the unit is mounted may not be below 0 C°.
3. Heating system and units must be installed and adjusted correctly.
4. Ventilation may not be running to prevent further freezing.

Function

It is vital for the function of the freezing protecting system, that the heating element can equalize the pressure into the central heating system in case of a freezing situation. A special design of the piping system allows the pressure, which occurs when the water expands due to freezing to ice, to be lead away from the heating element and into the return leg of the central heating system.

IKM A/S confirms:
that the products, called fresh air units, in the versions brought to marked by us, as listed below, comply to the demands and requirements for operation and operation conditions.

Unit name(s):
Fresh air unit with heating element for wall mounting

Type(s):
Comfort 35, 100
Entra 750e
Entra i 150, 450, 750

Validity
This declaration looses its validity in cases where changes made to the units are not agreed by IKM A/S.

12 may 2016

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Iver Holm Iversen
Product Manager

IKM
IndeKlimaMiljø A/S