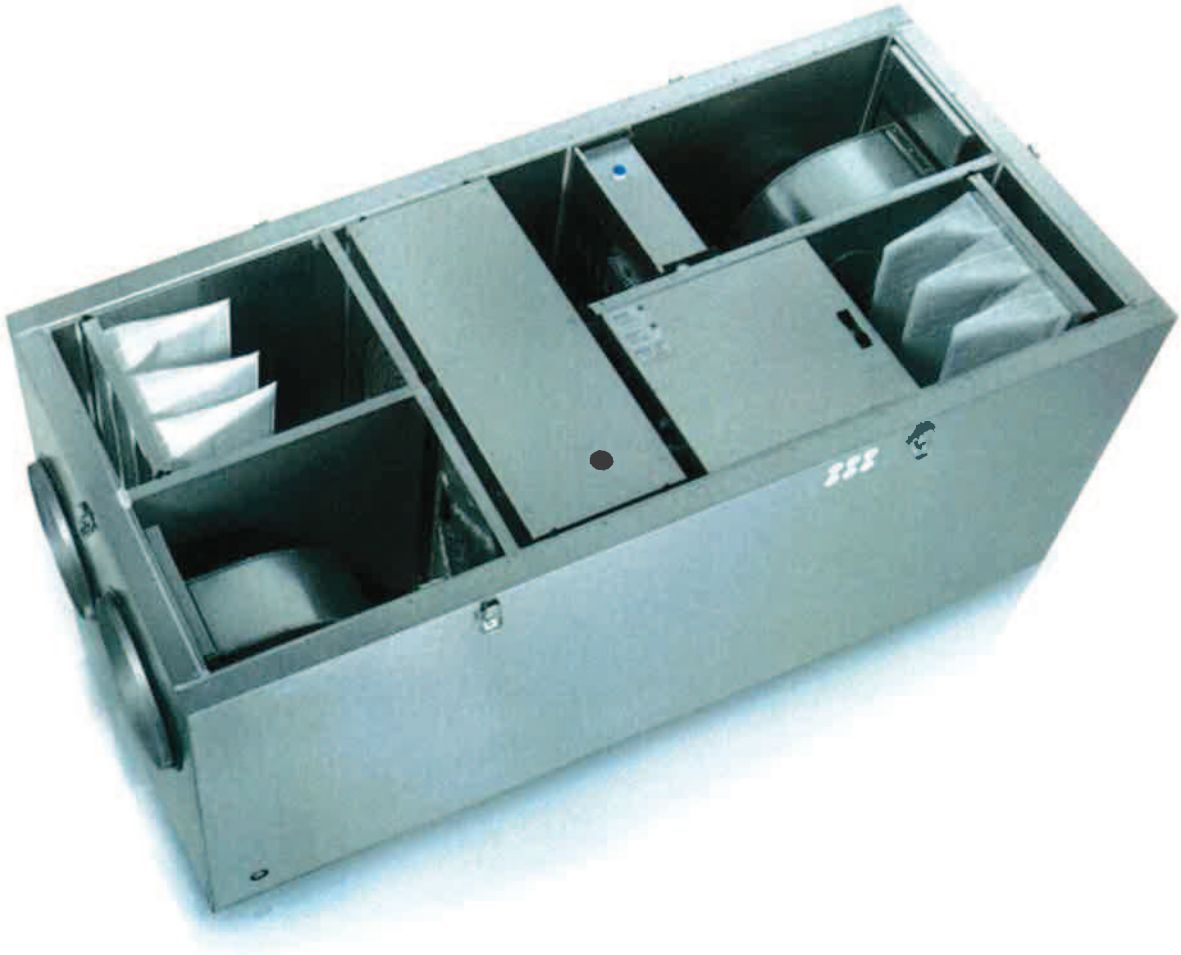
Saves Your Energy

14.4.2014
Test ref nr TK0138-03 / LTR-7
Revision 2

LTR-7 epbd-test



Performance of ventilation units Enervent LTR-7 eco ECE, eco EC, eco EDE and MDE

- thermal efficiency
- maximum electric power
- Summer by-pass (Summer night cooling)

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Assignment

Performance of ventilation unit Enervent LTR-7 eco EC, eco ECE, eco EDE and MDE

Measurements

The thermal efficiency of the ventilation unit was determined following the standard NBN EN 308 in accordance with the procedure described in §5.2.1 of document doc_4.4_S.a. of EPBD specific procedures.

The maximum electric power used by the machine was measured in accordance with the procedure described in §5.1.3 of document doc_4.4_S.a. of EPBD specific procedures.

LTR-7 eco EC was the same unit as LTR-7 eco ECE but with the supply air heater detached from the unit. LTR-7 eco EDE was the same unit as LTR-7 MDE.

The measurements took place in February-March 2014 in the lab of Ensto Enervent Oy, Kipinätie 1, 06150 Porvoo, FINLAND

Results of the measurements

LTR-7 eco EC

- Thermal efficiency $\eta_{t,epb}$ 78,3 % at flow rate ≤ 487 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 75,1 % at flow rate ≤ 850 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 72,0 % at flow rate ≤ 1 100 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 70,3 % at flow rate ≤ 1 220 m^3/h
- Maximum electric power F5/F5 filters 966 W
- Maximum electric power F7/F5 filters 996 W
- Summer by-pass: By-pass complete

LTR-7 eco ECE

- Thermal efficiency $\eta_{t,epb}$ 78,3 % at flow rate ≤ 487 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 75,1 % at flow rate ≤ 850 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 72,0 % at flow rate ≤ 1 100 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 70,3 % at flow rate ≤ 1 220 m^3/h
- Maximum electric power F5/F5 filters 966 W
- Maximum electric power F7/F5 filters 996 W
- Summer by-pass: By-pass complete

LTR-7 eco EDE

- Thermal efficiency $\eta_{t,epb}$ 78,3 % at flow rate ≤ 487 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 75,1 % at flow rate ≤ 850 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 72,0 % at flow rate ≤ 1 100 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 70,3 % at flow rate ≤ 1 220 m^3/h
- Maximum electric power F5/F5 filters 971 W
- Maximum electric power F7/F5 filters 990 W
- Summer by-pass: By-pass complete

LTR-7 MDE

- Thermal efficiency $\eta_{t,epb}$ 78,3 % at flow rate ≤ 487 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 75,1 % at flow rate ≤ 850 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 72,0 % at flow rate ≤ 1 100 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 70,3 % at flow rate ≤ 1 220 m^3/h
- Maximum electric power F5/F5 filters 960 W
- Maximum electric power F7/F5 filters 963 W
- Summer by-pass: By-pass complete

Additional information:

Fans motor type:	All models are equipped with DC fans
Automatic regulation:	No
Humidity-based control:	One built-in humidity sensor on LTR-7 eco EDE and MDE models. Controls fan speed according to indoor humidity level. Possible on LTR-7 eco EC and eco ECE models with separate hygrostat (sold separately).
CO_2 level control:	Possible on LTR-7 eco EDE and MDE models; CO_2 sensors are sold separately. Controls fan speed according to indoor carbon dioxide level.

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