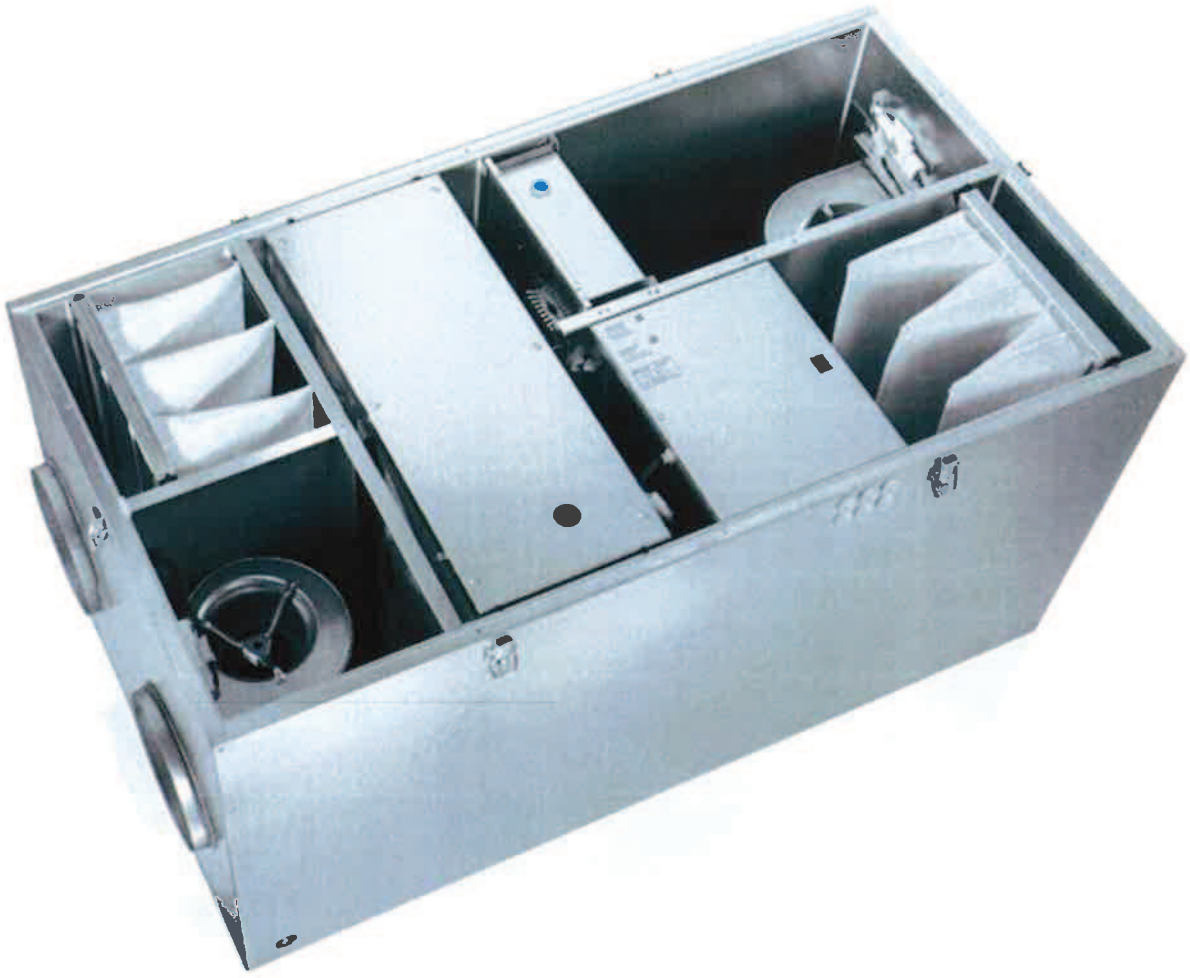
Saves Your Energy

LTR-6 epbd-test



Performance of ventilation units Enervent LTR-6- 190 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-6- 190 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-6- 190 eco EC was the same unit as LTR-6- 190 eco ECE but with the supply air heater detached from the unit. eco EDE same unit as MDE

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

Results of the measurements

LTR-6- 190 eco EC

- Thermal efficiency $\eta_{t,epb}$ 77,7 % at flow rate ≤ 327 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 77,2 % at flow rate ≤ 508 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 76,3 % at flow rate ≤ 612 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 75,4 % at flow rate ≤ 665 m^3/h
- Maximal electric power F5/F5 filters 361 W
- Maximal electric power F7/F5 filters 360 W
- Summer by-pass: By-pass complete

LTR-6- 190 eco ECE

- Thermal efficiency $\eta_{t,epb}$ 77,7 % at flow rate ≤ 327 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 77,2 % at flow rate ≤ 508 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 76,3 % at flow rate ≤ 612 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 75,4 % at flow rate ≤ 665 m^3/h
- Maximal electric power F5/F5 filters 361 W
- Maximal electric power F7/F5 filters 360 W
- Summer by-pass: By-pass complete

LTR-6- 190 eco EDE

- Thermal efficiency $\eta_{t,epb}$ 77,7 % at flow rate ≤ 327 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 77,2 % at flow rate ≤ 508 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 76,3 % at flow rate ≤ 612 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 75,4 % at flow rate ≤ 665 m^3/h
- Maximal electric power F5/F5 filters 363 W
- Maximal electric power F7/F5 filters 363 W
- Summer by-pass: By-pass complete

LTR-6- 190 MDE

- Thermal efficiency $\eta_{t,epb}$ 77,7 % at flow rate ≤ 327 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 77,2 % at flow rate ≤ 508 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 76,3 % at flow rate ≤ 612 m^3/h
- Thermal efficiency $\eta_{t,epb}$ 75,4 % at flow rate ≤ 665 m^3/h
- Maximal electric power F5/F5 filters 364 W
- Maximal electric power F7/F5 filters 364 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-6- 190 eco EDE and MDE models. Controls fan speed according to indoor humidity level.

Possible on LTR-6- 190 eco EC and eco ECE models with separate hygrostat (sold separately).

CO_2 level control: Possible on LTR-6- 190 eco EDE and MDE models; CO_2 sensors are sold separately. Controls fan speed according to indoor Carbon dioxide level.

Porvoo, 11 April 2014

Tom Palmgren
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