

Declaration of Conformity according to EN 13141-7:2004 / EN308

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TNO 2013 M10236

Determination of the energetic efficiency
of the energy recovery appliance
“Renovent Excellent 300”
Test report in accordance with
EN 13141-7:2004 / EN308

| | |
|----------------|---------------------------------------------------------------------|
| Date | February 2013 |
| Author(s) | H.A.J. Hammink |
| Sponsor | Brink Climate Systems BV R.D. Bügelstraat 3 7951 DA Staphorst |
| Project number | 054.03225 |
| Keywords | heat recovery efficiency |

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On behalf of Brink Climate Systems B.V., located in Staphorst, the Netherlands, the determination of the energetic efficiency was carried out by TNO Technical Sciences in Apeldoorn, the Netherlands.

Testing was performed according to:

- EN13141-7:2004 Performance testing of mechanical supply- and exhaust air ventilation units for single-family dwellings
- EN308, heat exchangers – Test procedures for establishing performance of air to air and flue gases heat recovery devices.

Key data for the tested unit:

| | |
|-----------------------|----------------------------|
| Manufacturer: | Brink Climate Systems B.V. |
| Type | Renovent Excellent 300 |
| Serial number: | 410021124902 |
| Year of construction: | 2012 |
| CE approval: | Yes |
| Max. air flow | 300 m ³ /h |

Results for the energetic efficiency:

| Air flow [m ³ /h] | Corrected η_{temp} | Power [W] | Voltage [V] | Current [A] | Power factor [-] |
|---------------------------------|----------------------------|--------------|----------------|----------------|---------------------|
| 50 | 89.9 | 8.8 | 230.3 | 0.11 | 0.34 |
| 175 | 84.9 | 29.8 | 230.3 | 0.35 | 0.37 |
| 300 | 81.9 | 98.3 | 230.1 | 0.87 | 0.49 |

Date : 14 February 2013

Place : Apeldoorn

Signed :



Drs. P.M. van Hoorik
Research Manager Energy and Comfort Systems

Measurement results, leak tightness classification, fan characteristics and the functioning of the energy recovery appliance at low temperatures are given in short report TNO 2013 M10230, February 2013.

The activities are performed under ISO/IEC 17025 accreditation (registration nr. L115)