

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

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**TNO-060-DTM-2013-01161**

Determination of the energetic efficiency  
of the energy recovery appliance  
“Renovent Excellent 400”  
Test report in accordance with  
EN 13141-7:2004 / EN308

|                |   |
|----------------|---|
| Date           | May 2013  |
| Author(s)      | H.A.J. Hammink  |
| Sponsor        | Brink Climate Systems BV<br>R.D. Bügelstraat 3<br>7951 DA Staphorst |
| Project number | 060.01122   |
| Keywords       | heat recovery<br>efficiency   |

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TNO-Results

*Determination of the energetic efficiency of the energy recovery appliance  
"Renovent Excellent 400", Test report in accordance with EN 13141-7 / EN308*

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

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 400     |
| Serial number:        | 420020104601               |
| Year of construction: | 2010                       |
| CE approval:          | Yes                        |
| Max. air flow         | 400 m <sup>3</sup> /h      |

Results for the energetic efficiency:

| Air flow<br>[m <sup>3</sup> /h] | Corrected<br>$\eta_{temp}$ | Power<br>[W] | Voltage<br>[V] | Current<br>[A] | Power factor<br>[-] |
|---------------------------------|----------------------------|--------------|----------------|----------------|---------------------|
| 50                              | 93.3                       | 9.4          | 229.8          | 0.12           | 0.34                |
| 225                             | 85.2                       | 48.7         | 229.8          | 0.42           | 0.51                |
| 400                             | 81.4                       | 153.6        | 229.8          | 1.22           | 0.55                |

Date : 1 May 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 BRR 060-APD-2011-00068, July 2011.