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EUROVENT CERTITA CERTIFICATION LAUNCHES A NEW ENERGY EFFICIENCY CLASSIFICATION FOR AIR HANDLING UNITS

Paris, 13th January 2016 – With over 15 year expertise gained in Air Handling Units certification, Eurovent Certita Certification is pleased to announce the launch of its new energy efficiency classification for Air Handling Units.

This new classification is defined in the Rating Standard RS 6/C/005-2016, and covers, from the 1st of January 2016, all products in the scope of the Eurovent Certified Performance programme for Air Handling Units.

The energy efficiency calculation method has not undergone significant changes, and still takes into account the critical parameters that are the efficiency of the fans, the thermal efficiency and pressure drop of the heat recovery system (HRS), and the air speed in the cross-section area of the unit.

Where this new classification marks a major step in terms of energy rating is in the level of demand of each class, as shown in Table 1. For instance, a unit newly A-classified is at least 28% more efficient than a unit formerly A-classified, and a unit formerly at the limit of the old class A is, in the new classification, rated class C.

Additionally, an A+ class has been introduced allowing to identify the world's most advanced products in terms of energy efficiency (at least 38% more energy efficient than the former A class).

CLASS	Max. air velocity v_{class} [m/s]	Min. efficiency of HRS η_{class} [%]	Max. pressure drop of HRS Δp_{class} [Pa]	Fan Efficiency Grade $NG_{ref\text{-}class}$ [-]
A+	1.4	83	250	64
A	1.6	78	230	62
B	1.8	73	210	60
C	2.0	68	190	57
D	2.2	63	170	52
E	No calculation required			No requirement

Table 1: Definition for the Energy Efficiency classification

This new classification is in line with the latest Eurovent Certita Certification policy regarding Energy Efficiency classification, that is:

- A+ class represents less than 1% of the certified products;
- A class represents less than 5% of the certified products;
- B class represents less than 15% of the certified products.

This policy is defined in Appendix K in the Certification Manual Ed. 12 (2016).

Key benefits of this new energy classification:

- 135 ranges available from 101 manufacturers;
- A robust certification process based on product testing in independent laboratories, audits on manufacturing sites, check of the selection software;
- Certified data available on line 24/7 at www.eurovent-certification.com, including an online search engine.

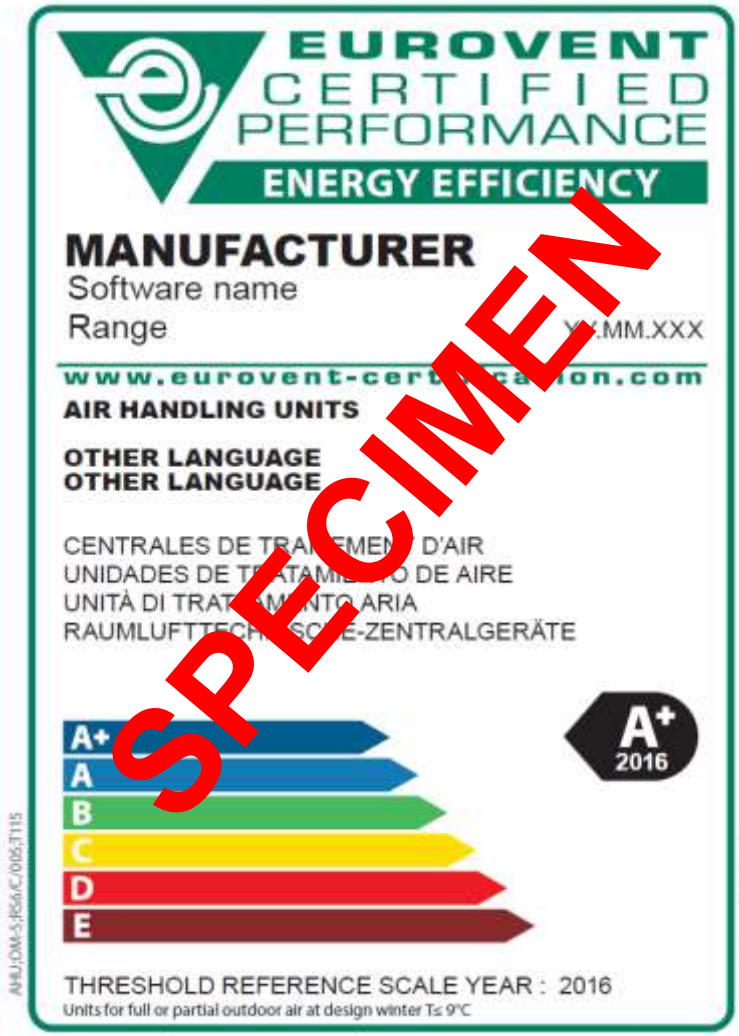

Figure 1: Illustration of the AIR HANDLING UNIT Energy Efficiency Label

Eurovent Certita Certification is a major European certification body in the field of HVAC-R, operating 38 certification programs and generating about € 12 million in turnover. Eurovent Certita Certification provides voluntary third part certification services on the full range of HVAC-R products, whatever their final use, either in residential domestic buildings or in industrial facilities for instance. Eurovent Certita Certification is offering various certification schemes tailored to the needs of manufacturers and stakeholders on their specific markets. It focuses on certifying products' performances as well as data needed to implement regulations. The main quality marks currently proposed are the marks "Eurovent certified performance", NF, CSTBat, and the European Keymark.

On a market ever more demanding in terms of energy performances and environmental challenges, Eurovent Certita Certification supplies certified data at a European level and provides the needed confidence.

Certification schemes for both domestic & industrial facilities

- **Thermodynamics :** Heat pumps, air conditioners, liquid chilling packages, VRF, rooftop …
- **Comfort appliances :** Radiators, fan coils, solar collectors and heaters, heating appliances using

  Liquid or solid fuels, mobile liquid fuel heaters, chilled beams …
- **Cooling & refrigeration** Cooling and heating coils, cooling towers, heat exchangers, milk coolers,

  condensing units, compressors, refrigerated display cabinet...
- **Ventilation** : Mechanical ventilation, air handling units, fans, flue pipes, filters, heat Recovery, residential air handling units …