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RECENT CHANGES IN THE CERTIFICATION PROGRAMMES FOR AIR-TO-AIR REGENERATIVE HEAT EXCHANGERS

Paris, 30th June 2016 – With more than 10 years of expertise gained in Air-to-Air Regenerative Heat Exchangers certification, Eurovent Certita Certification constantly tries to improve the value of the programme, answering the needs of a growing and demanding market.

Every year, certified Air-to-Air Regenerative Heat Exchangers are selected and tested in an independent laboratory, providing trustworthy test results. These tests are then checked against the selection tools in order to ensure the reliability of provided data.

In 2014, Eurovent Certita Certification decided to change the way the results are checked, and aligned the method with the EN308:1997:

- **Prior to 2014**, the **exhaust air inlet** (11) and **the supply air inlet** (21) airflows were used as inputs in the selection tools.
- **Since 2014**, the **exhaust air inlet** (11) and **supply air outlet** (22) airflows have been used as inputs in the selection tools.

As the airflow on the supply air outlet (22) is usually lower than the airflow on the supply air inlet (21), due to the Outdoor Air Correction Factor¹ (OACF), the air velocity across the exchanger is lower: the calculation thus gives a better efficiency. Therefore it is more likely that the efficiency will be out of the certification tolerances (defined in [Rating Standard RS 8/C/002-2016](#)).

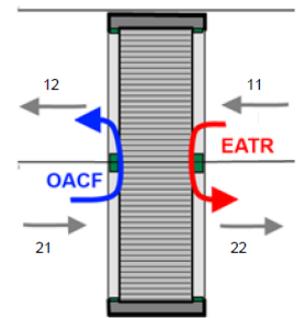


Figure 1

These changes have impacted the certified performances. In particular, the certified efficiencies (both temperature and humidity) have globally decreased when the products have remained identical.

By using this method, Eurovent Certita Certification is closer to the customers' expectations, whose requirements are on the airflows coming from and to the building, and in line with the EN308:1997, as the performances are checked with balanced airflows (the tests are conducted in order to keep exhaust air inlet (11) and the supply air outlet (22) airflows balanced).

¹ OACF; for more details, see [Eurovent 17/11 - 2015: Guidelines for Heat Recovery](#)



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 ...