

UNITÀ DI TRATTAMENTO ARIA

TROX AUTOMATICALLY CHECKS ENERGY EFFICIENCY ACCORDING TO ECODESIGN DIRECTIVE

| ErP-Stage Heat recovery system (HRS) BVU with a regulator device | | | January 2016 demanded | January 2018 |
|---|---|---|------------------------------|-------------------------------|
| | | | | |
| Plate heat exchangers, rotary heat exchanger, miscellaneous | 67 | 73 | | |
| Filter differential pressure monitoring | | | - | demanded |
| Fan speed regulation | | | demanded | demanded |
| Fan efficiencies UVU η _{us} [%] | | P _{epe} ≤ 30 kW | 6,2×in(P _{av}) +35 | 6,2×In(P _{ape}) +42 |
| | | P _{ape} > 30 kW | 56,1 | 63,1 |
| Internal SFP-Value reference configuration [W/(m ² /s)] | BVU | | | |
| | Run-around coll system | q < 2 m ⁸ /s | 1700+E-300 x q/2-F | 1600+E-300 × q/2-F |
| | | q≥2 m³/s | 1400+E-F | 1300+E-F |
| | Plate heat | q < 2 m ⁸ /s | 1200+E-300 x q/2-F | 1100+E-300 x g/2-F |
| | exchangers, rotary heat exchanger, miscellaneous | q≥2 m%s | 900+E-F | 800+E-F |
| | UVU | | 250 | 230 |
| HRS-Efficiency bonus E [Wi(m²/s)] | | Run-around coll system | (η-0,63) × 3000 | (η-0,68) × 3000 |
| | | Plate heat exchangers, rotary heat exchanger, miscellaneous | (η-0,67) × 3000 | (η-0,73) × 3000 |
| Filter correction value F [W/(m³/s)] | | Reference configuration | 0 | 0 |
| | | Filter M5 Is missing | 160 | 150 |
| | | Filter F7 Is missing | 200 | 190 |
| | | Filters M5 + F7 are missing | 360 | 340 |

With the adoption of the Kyoto Protocol, the European Union has committed itself to reducing CO2 emissions by at least 20 percent by 2020. In order to reach this goal, the EU adopted already in 2005 the Energy-Using Products Directive. The Energy-Related Products Directive 2009/125/EG, colloquially called 'ecodesign directive', defines minimum requirements for many energy-related products. Within the European Union, air handling units have to meet new energy efficiency requirements from 1 January 2016 onwards. The next step after that will become effective two years later, on 1 January 2018.

TROX air handling units of Type X-CUBE are configured to individual customer requirements with a dedicated configuration software. This software automatically considers the new energy efficiency requirements for all X-CUBE air handling units and hence ensures their correct configuration. All X-CUBE air handling units that are produced and placed on markets of the European Union from 1 January 2016 onwards meet the new requirements.

Please find attached the table ErP - Efficiency Requirements as of 2016

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