

AIR-TO-WATER ON/OFF HEAT PUMPS

EcoAir 406 - 420

Air-to-water heat pumps draw energy from the ambient air. The energy gained under a low outdoor temperature (as low as -22°C) is then “pumped” to a higher temperature and transferred into heating water. **Its flow temperature reaches as much as +65°C.** It is subsequently used to heat a house, prepare DHW or heat a pool.

This line of air-coupled heat pumps has been developed using the most advanced technologies in order to reach the best parameters. They are equipped with a new, extra large air heat exchanger (evaporator) for the best utilization of air energy. In order to reach a high COP and effective operation even under very low temperatures, they are fitted with the latest compressors and an electronic expansion valve.

Heat pumps of the 400 line can be sized to cover 100% of the heat needed for space and water heating, with heating needs covered by the heat pump alone without any electric backup.



**Energy Efficiency Class for the set with controller under average climate conditions for low-temperature application*

- **EcoAir 406-420 Heat Pumps are able to communicate with IR 12 Smart Controllers that permit comfort heating system control incl. control of up to 10 heat pumps connected in series.**

| TECHNICAL DATA | | | EcoAir 406 | EcoAir 408 | EcoAir 410 | EcoAir 415 | EcoAir 420 | |
|--------------------------------------|----------|-------------|---------------|---------------|---------------|---------------|---------------|-------|
| SCOP | | [-] | 3.85 | 3.92 | 3.92 | 3.76 | 3.71 | |
| Air/water temperature in °C | A7/W35* | Heat output | [kW] | 6.22 | 7.83 | 11.45 | 16.19 | 17.52 |
| | | Power input | [kW] | 1.30 | 1.62 | 2.36 | 3.53 | 4.23 |
| | | COP | [-] | 4.78 | 4.83 | 4.86 | 4.58 | 4.15 |
| | A2/W35* | Heat output | [kW] | 4.69 | 6.02 | 8.80 | 11.42 | 14.55 |
| | | Power input | [kW] | 1.28 | 1.60 | 2.30 | 3.24 | 4.13 |
| | | COP | [-] | 3.66 | 3.76 | 3.83 | 3.52 | 3.52 |
| | A-7/W35* | Heat output | [kW] | 3.87 | 4.73 | 7.32 | 9.96 | 11.51 |
| | | Power input | [kW] | 1.25 | 1.57 | 2.29 | 3.27 | 3.94 |
| | | COP | [-] | 3.10 | 3.02 | 3.19 | 3.04 | 2.92 |
| Dimensions and weight | | Width | [mm] | 1245 | 1245 | 1375 | 1375 | 1375 |
| | | Height | [mm] | 1075 | 1075 | 1175 | 1175 | 1175 |
| | | Depth | [mm] | 545 | 545 | 610 | 610 | 610 |
| | | Weight | [kg] | 120 | 126 | 180 | 187 | 190 |
| Sound power level | | | [dB(A)] | 56 | 58 | 58 | 64 | 66 |
| Sound pressure level at distance of: | | 5 m | [dB(A)] | 34 | 36 | 36 | 44 | 44 |
| | | 10 m | [dB(A)] | 28 | 30 | 30 | 39 | 39 |
| Code | | | [-] | 13243 | 13244 | 12994 | 12995 | 12848 |

**Values measured according to EN 14511 incl. defrost cycle*

Each CTC Heat Pump is equipped with a max. current limiter for compressor startup.

EcoAir 400 heat pumps are supplied without circulation pumps. They shall be installed exclusively either with CSE IR pump stations - see page 24, or with RegulusBOX indoor unit - see page 20, or with RegulusHBOX indoor unit - see page 22.