

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.**

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.

- SCOP up to 3.92
- Energy efficiency class with controller A++



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

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 18).