EcoAir 614M and 622M Inverter Air Source Heat Pumps

A Heat Pump draws energy from the ambient air and transfers it to domestic hot water and heating water. It works down to -22°C outdoor temperature and offers heating water up to 65°C. This is a 3-phase heat pump with a scroll compressor and inverter (speed control), offering a long service life. The output of the Heat Pump keeps adjusting to the heating requirements throughout the year.

- New scroll compressor with speed control and a long service life
- Smart defrost
- Max. COP of 5.9
- Energy efficiency class with controller A+++
- Suitable for a 3-phase PV power source

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

These Heat Pumps install easily, offering a high COP and an extremely low noise level. The feature of smart defrosting keeps monitoring the condition of the Heat Pump and starts defrosting for the shortest necessary time only when it is really needed. This contributes to a high efficiency of these Heat Pumps.

Technical Data				EcoAir 614M	EcoAir 622M
Output			[kW]	3-13	4-24
Maximum COP			[-]	5.92	5.65
Seasonal COP (SCOP)			[-]	4.9	4.93
Air/water temperature in °C	A7/W35* 20 ot./s	Heat output	[kW]	2.55	4.75
		Power input	[kW]	0.54	0.94
		COP	[-]	4.71	5.07
	A2/W35* 50 ot./s	Heat output	[kW]	5.31	8.27
		Power input	[kW]	1.31	2.19
		COP	[-]	4.05	3.78
	A-7/W35* 120 ot./s	Heat output	[kW]	8.69	13.99
		Power input	[kW]	3.94	6.03
		COP	[-]	2.21	2.32
Dimensions and weight		Width	[mm]	1245	1375
		Height	[mm]	1080	1180
		Depth	[mm]	545	645
		Weight	[kg]	174	192
Sound power level			[dB(A)]	52	55
Sound pressure level at distance of		5 m	[dB(A)]	33	36
		10 m	[dB(A)]	27	30
Code				17156	17157

*Values measured according to EN 14511 incl. defrost cycle

EcoAir 500M heat pumps are supplied without circulation pumps. They shall be installed exclusively with CSE IR 12 load units – see p. 21, or with an EcoZenith i350 Multi-Energy Thermal Store – see p. 14.