

AIR-TO-WATER INVERTER HEAT PUMPS

RTC 6i, 13e

Single-phase air-to-water heat pumps **permitting reversible cooling mode**.

They extract heat from the ambient air even if the temperature drops to -25°C . The maximum flow temperature is 55°C .

The advantage of inverter heat pumps is **the adjustment of the power to the actual requirements of the house** with regard to space heating, DHW heating or space cooling through a suitable cooling system, e.g. ceiling, wall or floor heating / cooling, or ventilation. Thus, it is possible to operate the heat pump without a thermal store, unless it is required, for example, due to insufficient heat storage for defrosting or in combination with other renewable energy sources.

Another advantage **is the low starting current**, so that the heat pump can be installed even in areas where there is a connection problem (more remote areas, end-points in municipalities, etc.).

The single-phase design can serve well in combination with the use of solar energy to power a heat pump. The PV panels are able to operate the heat pump efficiently in summer for DHW heating or cooling. Thanks to their single-phase design and reasonable output from approx. 2-3 kWp they can be reasonably priced.

- Heating & Cooling
- SCOP 4.71
- Energy Efficiency Class W. Controller A+++
- To be combined w. single-phase PV systems



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

TECHNICAL DATA

			RTC 6i	RTC 13e	
Heat output			[kW]	1-6	2-12
Seasonal coefficient of performance SCOP			[-]	4.47	4.71
Air/water temperature in $^{\circ}\text{C}$	A7/W35 low rpm	Heat output	[kW]	1.6	5.47
		Power input	[kW]	0.5	1.10
		COP	[-]	3.2	4.97
	A2/W35 medium rpm	Heat output	[kW]	3.15	5.96
		Power input	[kW]	0.75	1.46
		COP	[-]	4.2	4.08
	A-7/W35 high rpm	Heat output	[kW]	4.03	7.64
		Power input	[kW]	1.32	2.46
		COP	[-]	3.05	3.11
Dimensions and weight	Width	[mm]	921	1160	
	Height	[mm]	845	1024	
	Depth	[mm]	350	503	
	Weight	[kg]	76	85	
Sound power level			[dB(A)]	57	52
Sound pressure level at distance of:	5 m	[dB(A)]	38	30	
	10 m	[dB(A)]	32	24	
Code			[-]	17735	19437

RTC heat pumps are supplied without circulation pumps. They shall be installed exclusively with CSE IR pump stations – see page 24, or with RegulusBOX indoor unit - see page 20.