

AMRTA

Air Source Heat Pump

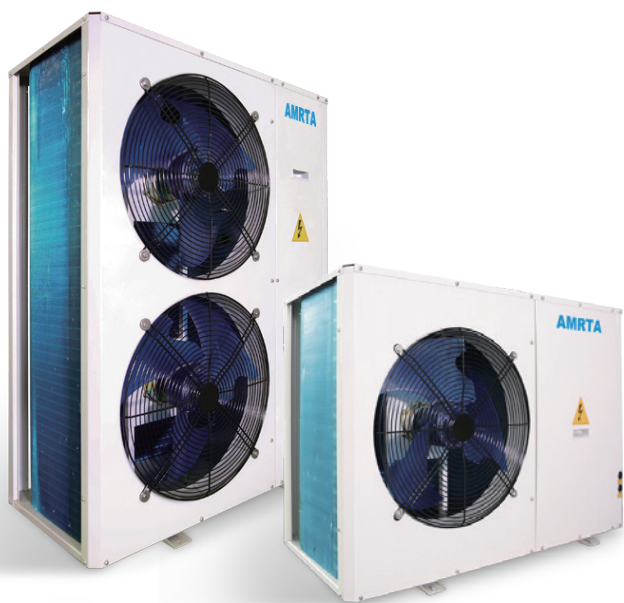
Model: 10-20kW

-25°C

Low Air
Temp.



Air Source Heat Pump



Amrta's AC range of chillers with the EVI-cycle increase the maximum temperature difference remarkably and provide a COP up to 4.5, which makes the hot water system much more efficient. They can be widely used in the commercial situation.

Unit description

High efficient

The application of EVI technology together with the high efficiency heat exchanger improves the heat exchanging rate.

Low working temperature

Units achieve optimum performance at ambient temperature as low as -25°C , ensuring 60°C hot water all year round.

EVI technology

The EVI compressor ensures the unit operate safely at low ambient temperature with higher efficiency and less noise.

Easy control

Intelligent control system with the Carel controller makes it much easier to control your unit whenever you need.

Applicable at many occasions



Hotel



Hospital



School

Technical data

Item		Model		ASHP-10L	ASHP-15L	ASHP-20L
DB/WB	In/Out water	Capacity	Unit			
7°C/6°C	36°C/41°C	Heating	kW	9.6	14.5	19.1
		Power input	kW	2.5	3.8	5.1
	50°C/60°C	Heating	kW	9.8	14.5	19.8
		Power input	kW	3.3	4.8	6.5
-12°C/-14°C	36°C/41°C	Heating	kW	6.1	9.2	11.8
		Power input	kW	2.32	3.70	4.70
	50°C/60°C	Heating	kW	6.6	9.8	12.8
		Power input	kW	3.2	4.8	6.4
-20°C/-°C	36°C/41°C	Heating	kW	5.2	7.7	10.3
		Power input	kW	2.30	3.60	4.60
	50°C/55°C	Heating	kW	5.4	8.1	10.8
		Power input	kW	2.9	4.3	5.8
-25°C/-°C	36°C/41°C	Heating	kW	4.5	6.0	8.9
		Power input	kW	2.40	3.40	4.80
	50°C/55°C	Heating	kW	4.7	6.8	9.5
		Power input	kW	2.9	4.5	5.9
35°C/---	12°C/7°C	Cooling	kW	7.2	10.2	14.2
		Power input	kW	2.7	3.7	5.2
Compressor	Type			Scroll	Scroll	Scroll
	Brand			Copeland	Copeland	Copeland
	Qty			1	1	1
Control methods	Electronic expansion valve					
Condensing fan	Type			Axial, plastic fan blade	Axial, plastic fan blade	Axial, plastic fan blade
	Qty			1	2	2
	Power input	w		90	90	90
Max power input			kW	4.1	5.8	8.2
Max working current			A	18	29	36
Pipe size				R1"	R1"	R1"
Evaporator type	High efficiency tank type heat exchanger					
Water flow	Cooling (Δ 5k)		m ³ /h	1.24	1.75	2.4
	Heating (Δ 5k/ Δ 10k)		m ³ /h	1.58/0.79	2.49/1.25	2.9/1.45
Water resistance			kPa	40	45	46
Refrigerant	Type		R410A			
	Charge amount		kg	3.6	5.3	6.1
Working range			°C	-25°C-46°C		
Power supply			1N~220V 50Hz			
Dimension			mm	1200x560x858	1000x560x1316	1100x620x1316
Noise level			dB(A)	54	56	56
Weight			kg	122	150	170

Note: Without water pump and expansion tank, but with paddle flow switch

