

Air Source Heat Pump

10kW-20kW



Why this choice?

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.



Characteristics

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.

Easy control

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

EVI technology

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

AMRTA
heatpump
 TECHNOLOGY

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
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.

