

AIR SOURCE HEAT PUMP

## Air Source Heat Pump

*up to 12-1500 kW*



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Heat pumps are devices that allow us to use the energy that is available in nature but cannot be used because its temperature is low, by raising its temperature. It takes the potential heat energy in air, soil and water and offers it to our use. With the heat pump, you can achieve heating, cooling and hot water processes in a single device.

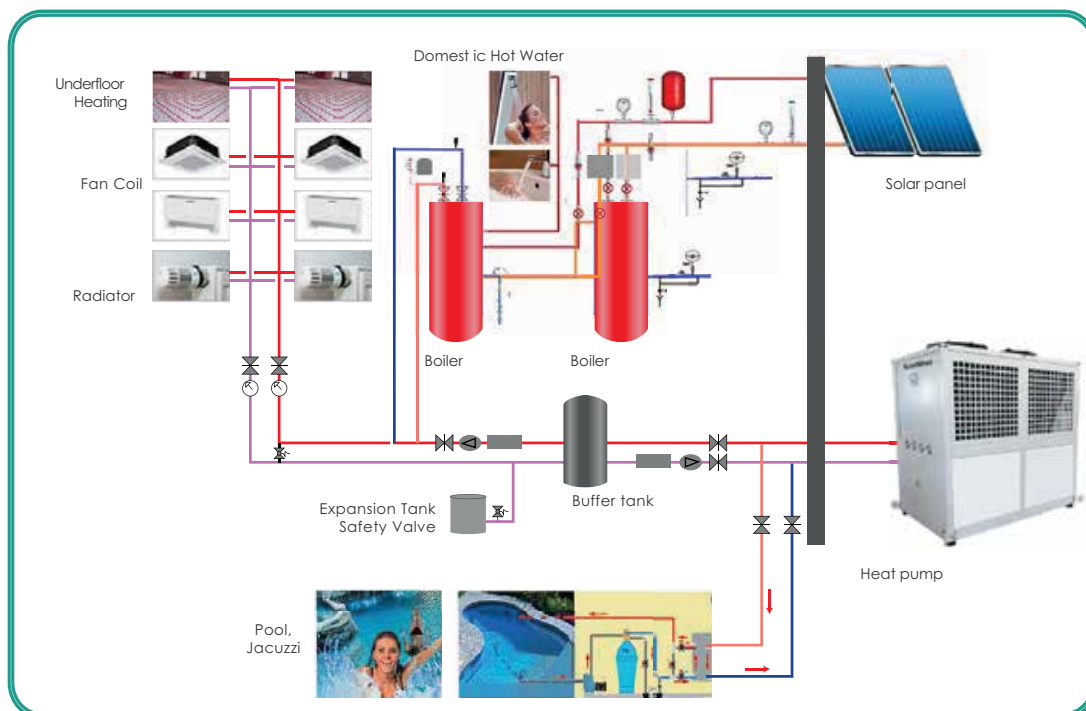
Efficiency and applicability go hand in hand. It can produce cold water up to 7 °C. It is easy to assemble with its monoblock (single body) structure. It is compact, durable, efficient and requires low energy costs. It also works in areas where the outside temperature drops down to -20 °C depending on humidity.



## Optional

- It performs dehumidification, heating and cooling in air handling units simultaneously and in a single device.
- Thanks to its economizer, it provides 30% additional savings.
- It provides free hot water in summer with its heat recovery feature.
- Cascading feature
- It also works in areas where the outside temperature drops down to -24 °C.
- Optionally, 80°C hot water can be produced.

## General Heat Pump Usage Patterns

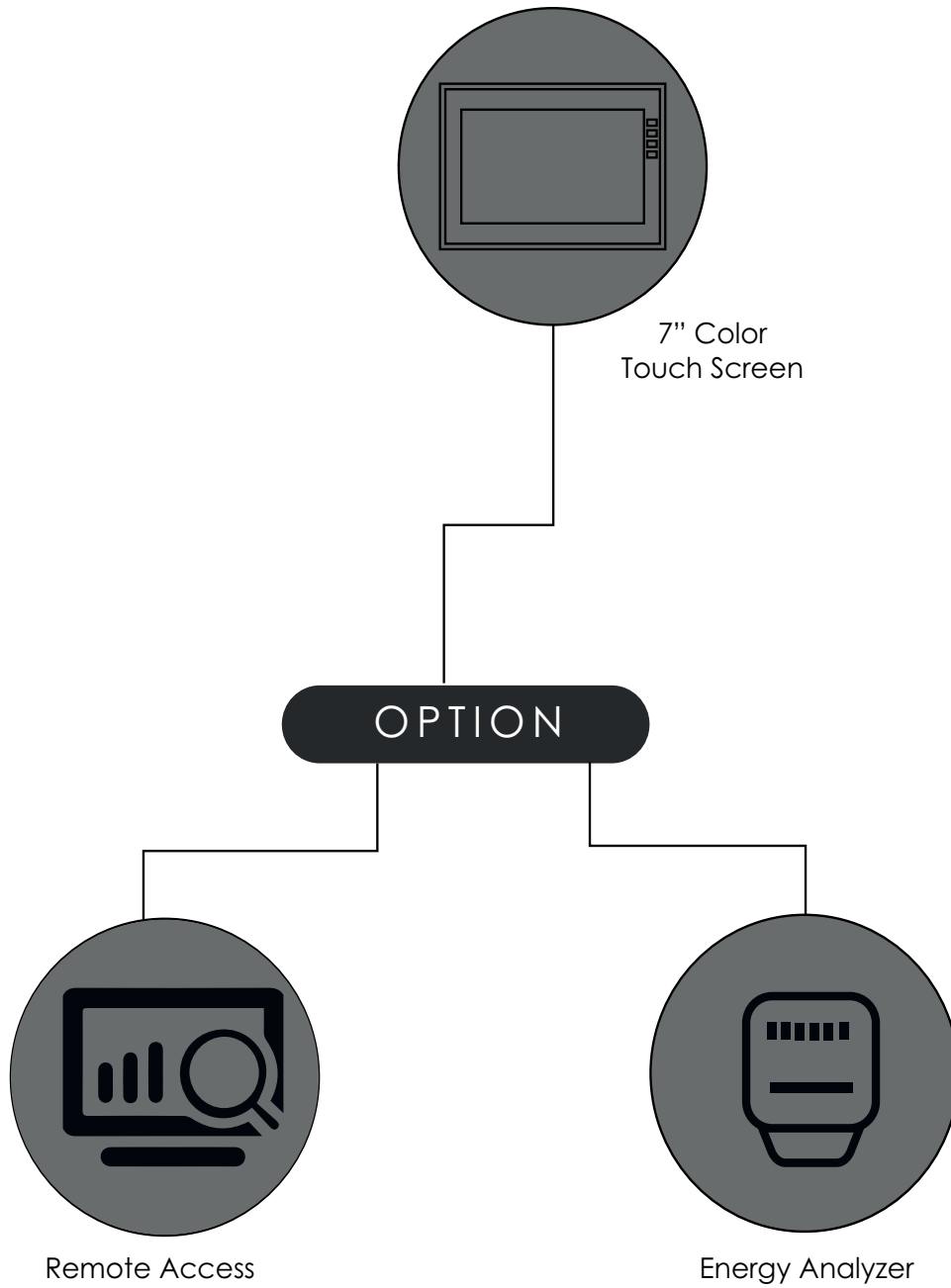


## AIR SOURCE HEAT PUMP

# PRODUCT SPECIFICATIONS



# OPTIONAL PRODUCTS



Model		A/W 16	A/W 34	A/W 50	A/W 80	A/W 120	A/W 150
Power Supply	V/ph/Hz	380/3/50					
<b>Performance (Heating)</b>							
Heating capacity <sup>1</sup>	kW	16,8	33,6	54	80	120	152
Power Consumption	kW	4,3	8,6	13,9	20,5	31	39
COP		3,91	3,91	3,88	3,90	3,87	3,90
Capacity Control		On/Off					
Minimum Capacity	%	100	50				
<b>Performance (Cooling)</b>							
Cooling capacity	kW	14,8	29,6	45	68,8	103	128
Power Consumption	kW	4,45	8,9	13,4	21,2	32	40,5
EER		3,33	3,33	3,36	3,25	3,22	3,16
<b>Refrigerant</b>							
Fluid		R 410A					
Circuit	N°	1	2				
<b>Compressor</b>							
Compressor Type		Scroll					
Compressor Number	N°	1	2				
<b>Water Circuit</b>							
Water Flow	m³/h	2,89	5,78	9,29	13,76	20,64	26,1
Pipe diameter	inç	1 1/4"	1 1/2"	2"	3"	3"	4"
<b>Fan</b>							
Fan Type		AC Axial Fan					
Fan number	N°	2				4	
Air flow	m³/h	36000				72000	
<b>Noise Level</b>							
Sound power	dB(A)	66	66	67	68	69	71
<b>Weight and Size</b>							
Weight	kg	220	380	475	600	850	1050
Width	mm	1303	1550	1900	2400	2910	3450
Depth	mm	550	900	1200	1200	1200	1200
Height	mm	1200	1700	1875	1875	2000	2100

\*For heating mode, Outdoor temperature 7 °C Water outlet temperature 35 °C

\*\* For cooling mode, Outdoor temperature 35 °C Water outlet temperature 7 °C

# A/W SERIES

Model		A/W 200	A/W 280	A/W 360	A/W 430	A/W 520	A/W 720	A/W 860	A/W 1040	A/W 1440
Power Supply	V/ph/Hz	380/3/50								
<b>Performance (Heating)</b>										
Heating capacity <sup>1</sup>	kW	196	278	357	427	518	722	854	1036	1444
Power Consumption	kW	50	70	90	109	132	185	218	264	370
COP		3,92	3,97	3,97	3,92	3,92	3,90	3,92	3,92	3,90
Capacity Control		On/Off								
Minimum Capacity	%	25	25	25	25	12,5	12,5	12,5	12,5	12,5
<b>Performance (Cooling)</b>										
Cooling capacity	kW	168	235	307	366	450	625	732	900	1250
Power Consumption	kW	52	74	97	115	140	197	230	280	394
EER		3,23	3,18	3,16	3,18	3,21	3,17	3,18	3,21	3,17
<b>Refrigerant</b>										
Fluid		R 410A								
Circuit	N°	1	1	1	1	2	2	2	2	2
<b>Compressor</b>										
Compressor Type		Screw								
Compressor Number	N°	1	1	1	1	2	2	2	2	2
<b>Water Circuit</b>										
Water Flow	m³/h	33,71	47,82	61,4	73,44	89,1	124,2	146,89	178,19	248,37
Pipe diameter	inç	4"	4"	5"	5"	5"	5"	5"	5"	5"
<b>Fan</b>										
Fan Type		AC Axial Fan								
Fan number	N°	4	6	8	10	10	14	16	20	28
Air flow	m³/h	72000	108000	144000	180000	180000	252000	288000	360000	504000
<b>Noise Level</b>										
Sound power	dBA	77	77	79	81	83	85	86	88	89
<b>Weight and Size</b>										
Weight	kg	2520	2800	3100	3700	4550	4700	5000	5250	5450
Width	mm	4000	4500	4800	6000	6000	6000	12000	12000	12000
Depth	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250
Height	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500

\*For heating mode, Outdoor temperature 7 °C Water outlet temperature 35 °C

\*\* For cooling mode, Outdoor temperature 35 °C Water outlet temperature 7 °C