

Air Source Heat Pump - Model SCAR-___-HB, Hot Water Only (70 Deg. C)

Product Description

- New compressor special designed for high water temperature.
- Base Frame and external panel made of polyester powder coated steel.
- Water side equipped with efficient tube in tube heat exchanger.
- Reliable compressor with R417A refrigerant.
- Flow switch for water flow protection.
- Intelligent controller and adjustment by quickmind microprocessor with possibility of remote control
- Careful protection functions such as high pressure, low pressure, overheating, overload, antifreezing, phase order, discharge temp., etc.
- Air heat exchanger (Fin Coil) with hydrophilic coating or copper fin
- Automatic defrosting function include
- Thermostatic expansion valve
- General testing an operational test carried out for every unit before package in factory.

PERFORMANCE DATA

MODEL	SCAR-___-HB	012	020	025	040	050	080	
Rated heating capacity	BTUH	27,297	45,723	54,935	90,763	109,189	180,843	
	Tons	2.27	3.81	4.58	7.56	9.10	15.07	
	WATT	8,000	13,400	16,100	26,600	32,000	53,000	
Hot water supply	T/h							
Heating input power	WATT	2,500	4,150	4,850	8,300	9,700	16,500	
Rated heating input current	Amp.	12.3	7.60	8.90	15.20	17.80	30.40	
COP	KW/KW	3.2	3.2	3.3	3.2	3.3	3.2	
Max running current	Amp.	17.10	12.00	13.00	24.00	26.00	48.00	
Output water temperature	Deg. C	70 Deg. C						
Power Supply	V/P/Hz	220/1/50-60 415-440V / 3P / 50-60Hz						
Noise level	dB(A)	53	58	61	63	64	68	
Dimension	Width	mm.	680	810	810	1450	1450	1700
	Height	mm.	635	780	780	780	780	900
	Depth	mm.	820	1050	1050	1050	1200	1250
Weight	KGS.	115	145	155	80	320	570	
Working temperature range	Deg. C	-10 Deg. C - 43 Deg. C						
Water temp control precise	Deg. C	± 1 Deg. C						
Throttle type		Electronic expansion valves/Thermostatic expansion valves						
Refrigerant	Type	R417A						
Compressor	Type	Rotary / Scroll						
	Quantity	PC	1	1	1	2	2	4
	Safety functions		Overheating protection, phase protection, under-voltage protection, delay-start protection and so on					
Air source heat exchanger	Type	Finned heat exchanger						
	Fan type		Axial big twist Angle fan					
	Motor power	WATT	200	300	500	600	600	1500
Hot water side heat exchanger	Type	High efficient tube in tube heat exchanger						
	Water flow	m ³ /H	1.38	2.3	2.77	4.57	5.5	9.11
	Water pressure	kPa	14	18	21	20	23	25
	pipe size	Inch.	3/4	1	1	1-1/4	1-1/4	2
Max. working pressure	kPa	1,000	1,000	1,000	1,000	1,000	1,000	

NOTES:

- Rated hot water working condition: Air source air inlet dry air bulb temperature is 20 Deg. C, Wet bulb temperature is 15 Deg. C.
- Initial temperature of hot water is 20 Deg. C, Termination temperature of hot water is 70 Deg. C

Product Gallery



SCAR-12-25-HB



SCAR-40-50-80-HB

SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.