

# Air Source Heat Pump - Model SCAR-\_\_\_-XB, Hot Water Only (60 Deg. C)

## Product Description

- Base Frame and external panel made of polyester powder coated steel.
- Extremely compact structure, easy demountable for access
- High efficiency compressor with R410A refrigerant
- Reverse cycle valve
- 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.
- Water side equipped with efficient tube in tube heat exchanger.
- 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-___-XB	005	008	012	016	020	
Rated heating capacity	BTUH	16,481	24,226	37,534	51,182	64,831	
	TONS	1.37	2.02	3.13	4.27	5.40	
	WATT	4,830	7,100	11,000	15,000	19,000	
Hot water supply	T/h	0.1	0.15	0.23	0.3	0.41	
Heating input power	WATT	1,150	1,700	2,340	3,400	4,100	
Rated heating input current	Amp.	4.71	7.11	10.10	14.75	17.80	
COP		4.2	4.18	4.6	4.4	4.63	
Output water temperature	Deg. C	60 Deg. C					
Power Supply	V/P/Hz	220V / 1P / 50-60Hz			220 / 1P / 50-60Hz		
		415-440V / 3P / 50-60Hz					
Noise level	dB(A)	48	50	53	53	55	
Dimension	Width	mm.	930	1000	680	810	810
	Height	mm.	280	300	680	780	780
	Depth	mm.	550	620	830	1,050	1,050
Weight	KGS.	75	85	120	150	155	
Working temperature range	Deg. C	-20 Deg. C - 43 Deg. C					
Water temp control precise	Deg. C	± 1 Deg. C					
Throttle type		Electronic expansion valves/thermostatic expansion valves					
Refrigerant	Type	R410A, R407C, R22					
Compressor	Type	Rotary			Hermetically sealed scroll		
	Quantity	PC	1	1	1	1	1
	Safety functions		Overheating protection, phase protection, under-voltage protection, delay-start protection and so on				
Air source heat exchanger	Type	Finned heat exchanger					
	Quantity		1	1	1	1	1
	Fan type		Axial big twist Angle fan				
	Motor power	WATT	40	50	100	200	300
Hot water side heat exchanger	Type	High efficient spiral tube in tube heat exchanger					
	Water flow	m <sup>3</sup> /H	0.84	1.22	1.86	2.44	3.27
	Water pressure	kPa	20	20	27	29	30
	pipe size	DN	20	20	20	25	25
Max. working pressure	kPa	1,000	1,000	1,000	1,000	1,000	
Advised water tank	m <sup>3</sup>	0.15-0.5	0.25-0.7	1.2-1.8	1.5-2.5	2.5-3.5	

### NOTES:

- Standard heating conditions:  
Air side dry bulb temperature is 20Deg. C. wet bulb temperature is 15Deg. C. initial water temperature 15Deg. C. output water temperature 55Deg. C
- Manufacturer tested noise level showed above, are in laboratory. The noise level of installed unit could be different with above data due to the surrounding conditions.
- Manufacturer have the right to change the technical data due to technical improvement

## Product Gallery



SCAR-05-08-XB



SCAR-12-16-20-24-28-XB



SCAR-12-20-25-XB



SCAR-40-60-80-100-XB

SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

# Air Source Heat Pump - Model SCAR-\_\_\_-XB, Hot Water Only (60 Deg. C)

## Product Description

- Base Frame and external panel made of polyester powder coated steel.
- Extremely compact structure, easy demountable for access
- High efficiency compressor with R410A refrigerant
- Reverse cycle valve
- 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.
- Water side equipped with efficient tube in tube heat exchanger.
- 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-___-XB	024	028	040	060	080	100	
Rated heating capacity	BTUH	78,479	92,469	129,661	194,833	259,323	324,153	
	Tons	6.54	7.71	10.81	16.24	21.61	27.01	
	WATT	23,000	27,100	38,000	57,100	76,000	95,000	
Hot water supply	T/h	0.46	0.58	0.82	1.23	1.63	2.04	
Heating input power	WATT	4,680	5,900	8,200	12,200	16,200	20,500	
Rated heating input current	Amp.	9.50	11.00	13.34	19.99	26.51	33.10	
COP		4.7	4.59	4.64	4.68	4.69	4.63	
Max running current	Amp.	14.5	16	24	36	48	52	
Output water temperature	Deg. C	60 Deg. C						
Power Supply	V/P/Hz	415-440V / 3P / 50-60Hz						
Noise level	dB(A)	55	60	63	66	68	68	
Dimension	Width	mm.	810	880	1,450	1,900	1,700	1,800
	Height	mm.	780	780	780	1010	900	1,010
	Depth	mm.	1,050	1,050	1,050	1,050	1,215	1,215
Weight	KGS.	175	225	280	440	520	580	
Working temperature range	Deg. C	-20 Deg. C - 43 Deg. C						
Water temp control precise	Deg. C	± 1 Deg. C						
Throttle type		Electronic expansion valves/thermostatic expansion valves						
Refrigerant	Type	R410A, R407C, R22						
Compressor	Type	Hermetically sealed scroll						
	Quantity	PC	1	1	2	3	4	4
	Safety functions		Overheating protection, phase protection, under-voltage protection, delay-start protection and so on					
Air source heat exchanger	Type	Finned heat exchanger						
	Quantity		1	1	2	2	2	2
	Fan type		Axial big twist Angle fan					
	Motor power	WATT	370	370	600	1,200	1,500	1,500
Hot water side heat exchanger	Type	High efficient spiral tube in tube heat exchanger						
	Water flow	m <sup>3</sup> /H	3.72	4.66	6.53	9.81	13.07	16.3
	Water pressure	kPa	32	34	36	42	46	48
	pipe size	DN	25	25	32	40	50	50
Max. working pressure	kPa	1,000	1,000	1,000	1,000	1,000	1,000	
Advised water tank	m <sup>3</sup>	2.5-4	3.5-5	5-7	8-10	12-14	15-20	

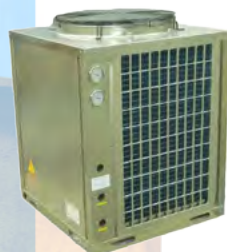
### NOTES:

- Standard heating conditions: Air side dry bulb temperature is 20Deg. C. wet bulb temperature is 15Deg. C. initial water temperature 15Deg. C. output water temperature 55Deg. C
- Manufacturer tested noise level showed above, are in laboratory. The noise level of installed unit could be different with above data due to the surrounding conditions.
- Manufacturer have the right to change the technical data due to technical improvement

## Product Gallery



SCAR-05-08-XB



SCAR-12-16-20-24-28-XB



SCAR-12-20-25-XB



SCAR-40-60-80-100-XB

SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.