

# Air Source Heat Pump - Model SCAM-\_\_\_-XB, Hot Water, Cooling, Heating of Air Conditioning

## PERFORMANCE DATA

MODEL		SCAM-___-XB	012	020	024	040	060	080	100
Water Heater	Rated heating capacity	BTUH	37,534	64,831	75,067	129,661	194,492	259,323	307,093
		Tons	3.13	5.40	6.26	10.81	16.21	21.61	25.59
		WATT	11,000	19,000	22,000	38,000	57,000	76,000	90,000
	Hot water supply	T/h	0.24	0.41	0.48	0.82	1.23	1.63	1.94
	Heating input power	WATT	2,440	4,070	4,880	8,150	12,220	16,740	18,660
	Rated heating input current	Amp.	11.23	17.76	22.46	15.53	23.28	31.89	34.87
	COP	4.51	4.67	4.51	4.66	4.66	4.54	4.82	
Water Chiller	Rated cooling capacity	BTUH	25,386	42,311	50,773	84,621	126,898	169,242	225,884
		Tons	2.12	3.53	4.23	7.05	10.57	14.10	18.82
		WATT	7,440	12,400	14,880	24,800	37,190	49,600	66,200
	Water flow	m <sup>3</sup> /H	1.28	2.13	2.56	4.27	6.40	8.53	11.39
	Input power	WATT	2,580	4,300	5,160	8,600	12,960	17,300	22,400
	Rated input current	Amp.	11.87	17.60	23.75	15.20	22.80	30.40	41.00
	EER	2.88	2.88	2.88	2.88	2.87	2.87	2.96	
Heating for A/C	Rated Heating capacity	BTUH	27,024	45,040	54,048	90,081	135,087	180,161	241,580
		Tons	2.25	3.75	4.50	7.51	11.26	15.01	20.13
		WATT	7,920	13,200	15,840	26,400	39,590	52,800	70,800
	Water flow	m <sup>3</sup> /H	1.36	2.27	2.72	4.54	6.81	9.08	12.18
	Input power	WATT	2.4	4.00	4.80	8.00	11.97	16.00	22.00
	Rated input current	Amp.	11.05	7.60	22.09	15.20	22.80	30.40	40.00
	COP	KW/KW	3.30	3.30	3.30	3.30	3.31	3.30	3.22
Chiller and Water Heater	Rated cooling capacity	BTUH	26,615	44,358	53,229	88,374	132,732	177,090	208,823
		Tons	2.22	3.70	4.44	7.36	11.06	14.76	17.40
		WATT	7,800	13,000	15,600	25,900	38,900	51,900	61,200
	Water flow	m <sup>3</sup> /H	1.34	2.24	2.68	4.45	6.69	8.93	10.53
	Heating capacity	WATT	10,500	16,500	21,000	33,000	49,500	66,000	77,600
	Heating Water flow	T/h	1.81	2.84	3.61	5.68	8.51	11.35	13.35
	Input power	WATT	2,300	3,700	4,600	7,400	11,170	14,900	17,300
	Rated input current	Amp.	10.59	7.10	21.17	14.2	21.28	28.40	32.00
		EER + COP	7.96	7.97	7.96	7.96	7.91	7.91	8.02
	Rated Outlet Temperature	Deg. C	55 Deg. C						
Max. Outlet Temperature	Deg. C	60 Deg. C							
Power Supply	V/P/Hz	220/1/50-60	415-440/3/50-60	220/1/50-60	415-440/3/50-60				
Noise level	dB(A)	50	55	55	55	58	60	60	
Dimension	Width	mm.	710	810	1300	1450	1900	2005	2205
	Height	mm.	710	780	640	780	1010	1030	1030
	Depth	mm.	810	1010	740	1010	1160	2090	2090
Weight	KGS.	110	175	220	340	610	830	930	
Throttle type		Electronic expansion valves/thermostatic expansion valves							
Refrigerant	Type	R410A							
Compressor	Type	Rotary / Scroll							
	Quantity	PC	1	1	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	1	1
	Fan type		Axial big twist Angle fan						
	Motor power	WATT	200	300	370	600	1200	1500	1500
Hot water side heat exchanger	Type	High efficient tube in tube heat exchanger							
	Water flow	m <sup>3</sup> /H	1.89	3.27	3.78	6.54	9.80	13.07	15.48
	Water pressure	kPa	27	32	30	36	42	46	48
	pipe size	inch.	3/4	1	1	1-1/4	1-1/2	2	2
	Max. working pressure	kPa	1000	1000	1000	1000	1000	1000	1000
Air condition side heat exchanger	Type	High efficient plate heat exchanger				High efficient tube in tube heat exchanger			
	Water flow	m <sup>3</sup> /H	1.34	2.24	2.68	4.45	6.69	8.93	10.53
	Water pressure	kPa	12	13	12	15	40	45	47
	pipe size	inch.	3/4	1	1	1-1/4	1-1/2	2	2
	Max. working pressure	kPa	1000	1000	1000	1000	1000	1000	1000

### Product Gallery



SCAM-12-20-24-XB



SCAM-40-60-XB



SCAM-80-100-XB

#### NOTES:

- Rated hot water working condition: Air source side air inlet dry bulb temperature is 20 Deg. C, Wet bulb temperature is 15 Deg. C. Initial temperature of hot water is 15 Deg. C. termination temperature of hot water is 55 Deg. C
- Rated cooling working condition: Air source side air inlet temperature is 35 Deg. C, Use side water inlet temperature is 12 Deg. C, outlet temperature is 7 Deg. C
- Rated heating working condition: Air source side air inlet dry bulb temperature is 7 Deg. C, Wet bulb temperature is 6 Deg. C, Use side water inlet temperature is 40 Deg. C, outlet temperature is 45 Deg. C
- Cooling with heating working condition: Initial temperature of hot water is 15 Deg. C. Termination temperature of hot water is 55 Deg. C. Air condition water side water inlet temperature is 12 Deg. C, outlet temperature is 7 Deg. C.

SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.