

SELF-CONTAINED AIR COOLED

Air Cooled Air Conditioners
7.5-20 Tons
SRUB R22 Series 50Hz



Self-Contained Air Cooled, 50 Hz

No Water Required

You will find the efficiency, flexibility, and unobtrusive styling of the SRUB models. The SRUBs are hard to be beaten especially for the scarely water in the local area, and high-rise office buildings. The SRUB get along fine without cooling by water.

And this is another kind of Trane products which can serve the requirement in nearly every application.

Designed For You

- · Light and compact.
- Available in 7.5, 9, 10.5, 13.5, 16, 18 and 20 ton capacity.
- The cabinet is thermally and acoustically insulated to make it even quieter.

Quality and Reliability

- Scroll compressors are available from 7.5 to 20 tons with excellent reliability and high efficiency.
- Dual compressors and independent circuits are standard in the SRUB160-SRUB250 models.
- All units are 100 percent run tested prior to leaving the production line.

Maximum Efficiency

- Lower noise operation and higher efficiency with the new generation higher EER Scroll Compressor.
- 64% fewer parts than a comparable capacity reciprocating compressor.
- Single rotating assembly minimizes the friction and mechanical losses.
- Smooth operation, similar to a centrifugal compressor, give low torque variation and extend motor life, and minimal vibration reducing wear.
- Solid mount with no internal suspension to be worn out.
- Integral inlet dirt separator removes contaminants.
- Rolling element bearings for higher efficiency reduced friction. No suction or discharge valves for improved efficiency compared to a reciprocating compressor.



System Advantage

- Factory assembly reduces installation costs - no field assembly is needed.
- No need for external heat ex-changers, water towers and other space requirement.
- Simply choose the location, install properly ducting, arrange drain piping and make electrical connection.
- Horizontal and vertical discharge arrangement.
- Quick-access panels for fast and easy servicing.
- Fully refrigerant charge R22.

System Performance Matrix

Model	Evaporator CFM	Condenser CFM	Total Capacity (MBH)	Sensible Capacity (MBH)
SRUB 080	2,800	4,500	87	61
SRUB 110	3,600	5,500	110	73
SRUB 130	4,400	5,500	127	92
SRUB 160	5,200	8,000	165	113
SRUB 190	6,200	9,000	194	141
SRUB 220	7,200	10,000	213	159
SRUB 250	8,300	11,000	251	184

Note: 1. Matched system ratings are per ARI condition. Full load ratings are at 95°F entering condenser air temperature, and 80/67°F air dry bulb/wet bulb entering the air handler coil.

Evaporator fan power accounts for ARI condition required external static pressure, and losses associated with air filters, casing and wet evaporator coil pressure drop.

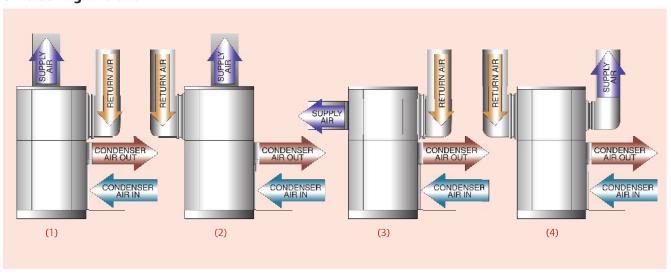


Product Specifications

UNIT MODELS		SRUB080AD	SRUB110AD	SRUB130AD	SRUB160BD	SRUB190BD	SRUB220BD	SRUB250BD		
POWER CONNECTION	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50		
MCA 1	A	26.15	32.74	36.37	33.61	57.61	61.11	75.28		
SYSTEM DATA										
Refrigerant Type		R22	R22	R22	R22	R22	R22	R22		
No. Refrigerant Circuits		1	1	1	2	2	2	2		
EVAPOR ATOR COIL										
Tube Size OD	in	3/8	3/8	3/8	3/8	3/8	3/8	3/8		
Fins per inch		12	12	12	12	12	12	14		
Refrigerant Flow Cont rol		Expansion valve	Expansion valve	Expansion valve	Expansion valve	Expansion valve	Expansion valve	Expansion valve		
Drain Connection Size	in	1	1	1	· 1	1	1	1		
Drain Connection Type		Steel - MPT	Steel - MPT	Steel - MPT	Steel - MPT	Steel - MPT	Steel - MPT	Steel - MPT		
EVAPOR ATOR FAN										
Fan Type	Double Inlet Centrifugal with Forwa rd Curved Wheel									
Qty		1	1	1	1	1	2	2		
Drive Type					Belt drive					
Nominal Airflow ²	cfm (cmh)	2800 (4757)	3600 (6116)	4400 (7476)	5200 (8835)	6200 (10534)	7200 (12233)	8300 (14102)		
EVAPOR ATOR MOTOR	()	====(,,,,,	3333 (3113)	1100 () 11 0)	5200 (0000)	0200 (1000 1)	, = 00 (. = = 00)	0000 (11102)		
Motor Type	Totally Enclosed-Fan Cooled, Th ree Phase Induction Motor									
Qty		1	1	1	1	1	1	1		
Motor hp	hp (kW)	1 (0.75)	2 (1.5)	2 (1.5)	3 (2.2)	3 (2.2)	3 (2.2)	5 (3.7)		
V/ph/Hz		380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50		
RLA		1.99	3.66	3.66	5.08	5.08	5.08	8.03		
COMPRESSOR		1,22	3.00	3.00	3.00	3.00	3.00	0.03		
Comp ressor Type					Hermetic Sc roll					
Qty		1	1	1	2	1 - 1	2	2		
RLA		16.4	19.2	22.1	16.4	16.4/19.2	19.2	22.1		
CONDENSER COIL		10.1	13.2	22.1	10.1	10.1) 13.2	1712	22.1		
Tube Size OD	in	3/8	3/8	3/8	3/8	3/8	3/8	3/8		
Fins per inch	***	12	12	12	12	12	12	14		
CONDENSER FAN		·-		·-			·-			
Fan Type				Double Inlet Cer	ntrifugal with Forwa	rd Curved Wheel				
Qty		1	2	2	2	2	2	2		
Drive Type					Be l t drive					
Nominal Airflow ²	cfm (cmh)	4500 (7646)	5500 (9345)	5500 (9345)	8000 (13592)	9000 (15291)	10000 (16990)	11000 (18689)		
CONDENSER MOTOR	(******)		(5)	()	,,		()			
Motor Type				Totally Enclosed-Fan	Cooled, Th ree Ph	ase Induction Motor				
Qty		1	1	1	1	1	1	1		
Motor Output	hp (kW)	2 (1.5)	3 (2.2)	3 (2.2)	5 (3.7)	5 (3.7)	5 (3.7)	7.5 (5.5)		
No. of Speed		1	1	1	1	1	1	1		
V/ph/Hz		380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50		
RLA		3.66	5.08	5.08	8.03	8.03	8.03	12.0		
FILTER		5.00	5.00	5.00	0.03	0.05	0.03	1210		
Type				Was	hable Aluminum Air F	ilter				
Qty		2	1 + 2	1+2	3	3	3	3		
DIMENSION (HxWxD)					-	•	-	-		
Crated (Shipping)	mm	2083x1320x965	2083x1740x850	2083x1740x850	2502x1790x965	2502x1790x965	2502x2057x965	2502x2057x965		
Uncrated (Net)	mm	1955x1295x965	1955x1740x845	1955x1740x845	2375x1765x965	2375x1765x965	2375x2030x965	2375x2030x965		
WEIGHT	111111	1933412934903	1793817008043	1733817008043	23/3/1/03/303	23/3/1/03/303	23/3/2030/903	23/3/2030/303		
Uncrated (Net)	l.a	522	638	678	814	968	1062	1070		
Uncrated (Net)	kg	522	638	6/8	814	968	1062	1070		

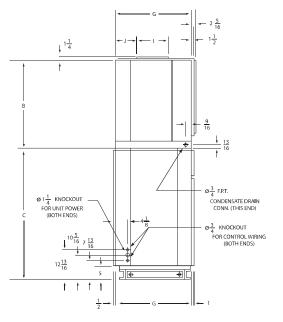
Note: Product design and specification are subject to change without notice.

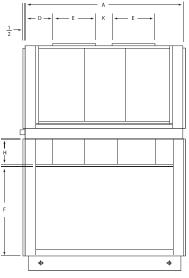
Unit Configurations

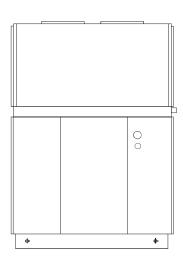


¹ MCA - Minimum Ci rcuit Ampacity ² CFM is rated with standa rd ai r-dry coil

Feature Summary







EVAPORATOR SECTION

For SRUB 080, 110, 130, 160, 190, with 1 Evaporator Blower. Except SRUB 220, 250 with 2 Evaporator Blowers.

CONDENSING SECTION

For SRUB 110, 130, 190, 220, 250 with 2 Condenser Blowers. Except SRUB 080 with 1 Condenser Blower.

MODEL	Α	В	С	D	Е	F	G	Н	- 1	J	K
SRUB 080	50 ¹ / ₂	29 ¹ / ₂	54	16 ¹ / ₁₆	18 ⁷ / ₈	29 ¹ / ₈	36 ⁷ / ₁₆	9	13 ⁷ / ₈	7 1/2	-
SRUB 110/130	67	29 1/2	47	24 1/16	18 ⁷ / ₈	29 ¹ / ₈	31 ³ / ₄	9	13 ⁷ / ₈	7 1/2	-
SRUB 160/190	69	34 3/4	58	25 ¹ / ₁₆	18 ⁷ / ₈	39 1/16	36 ³ / ₄	10	16 ¹ / ₄	9 ⁷ / ₈	-
SRUB 220/250	79 ¹ / ₂	34 3/4	58	17 ¹ / ₁₆	16	39 ¹ / ₁₆	36 ¹ / ₄	10	16 ¹ / ₄	8 7/8	13 ³ / ₈

Note: All dimensional data are in inch.

PRODUCT SPECIFICATIONS EVAPORATOR SECTION

- Convertible horizontal or vertical air discharge.
- · Evaporator coil with leak tested.
- Single refrigeration circuit for SRUB 080-130.
- Dual refrigeration circuits for SRUB 160-250.
- Thermal expansion valve(s), factory installed.
- Double inlet, double width, forward curve, centrifugal type evaporator fan(s) with adjustable belt drive.
- Thermal overload protection for evaporator fan motor.
- Completely insulated with fire-retardant, fire retardant polyethylene foam.
- 1" aluminum cleanable filter.

CONDENSING SECTION

- Single compressor for SRUB 080-130.
- Dual compressors for SRUB 160-250 with 2- step capacity control.
- · Filter driers and service valves.
- Factory leak tested at 400 psig air pressure.
- \bullet $\,$ Copper tube, aluminum plate fin coil with integral subcooled circuit.
- Suction gas cooled, temperature and current-sensitive motor overload for compressor motor.
- Double inlet, double width, forward curve, centrifugal type fan(s) with belt drive.
- Build in current and thermal overload protection or condenser fan motors.
- External high and low pressure cut-out devices.
- Completely factory wired with 220 volt control circuit.
- Plus or minus 10 percents of name plate voltage for utilization range.













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เทรน (ประเทศไทย)

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