



AIR COOLED
SPLIT
AIR-CONDITIONERS



SMARTWISE INNOVATIONS...
TOWARDS GREEN, QUALITY & RELIABILITY



SACC/SDX SERIES

1118 FIRST STREET E
HUMBLE TX 77338
281-540-2805

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Specifications in this catalogue are subject to change without notice in order that SMARTECH may bring the latest innovations to their customer.

SACC-1009A



- Designed for ease of installation and maintenance
- Incorporate single and multiple hermetic scroll compressor with independent refrigerant circuits
- Low noise and highly efficient axial propeller fans
- Large condenser surface area for efficient heat rejection
- Coated condenser coils for improved corrosion resistance
- Heavy gauge galvanised steel casing, coated with epoxy polyester paint

- Extruded aluminium rigid structural framework
- 1 inch thick polyurethane insulated double-walled casing cabinetry
- Hydrophilic coated evaporator coil to prevent moisture carry-over
- AMCA certified centrifugal forward curved fan
- Removable access panels
- Thermal expansion valves for efficient superheat control
- High efficiency TEFC motor and dynamically balanced and aligned drive package



PHYSICAL DATA - EVAPORATOR BLOWER UNIT

MODEL	BLOWER		BLOWER MOTOR			MIN - MAX AIRFLOW (cf ms)	EVAPORATOR COIL			SUCTION CONNECTION		LIQUID CONNECTION	
	QTY	MODEL	MAXHP	FLA	LRA		TUBES O.D	ROWS DEEP	FACE AREA FT²	QTY	SIZE (INCH)	QTY	SIZE (INCH)
SDX65	1	A 10 x 10A	1.5	2.89	16.4	1490 - 2550	3/8	3	4.5	1	7/8	1	3/8
SDX75	1	A 10 x 10A	2.0	3.64	21.8	1670 - 2700	3/8	4	4.5	1	7/8	1	1/2
SDX86	1	A 12 x 12A	2.0	3.64	21.8	2200 - 3750	3/8	3	6.25	1	1 1/8	1	1/2
SDX115	1	A 12 x 12A	3.0	5.09	32.8	3200 - 4600	3/8	3	7.8	1	1 3/8	1	1/2
SDX130	1	A 12 x 12A	4.0	6.62	49.1	3200 - 4600	1/2	4	7.8	1	1 3/8	1	5/8
SDX150	1	FDA 3 15	5.5	8.84	61.0	4600 - 6000	1/2	3	10.3	1	1 3/8	1	5/8
SDX150T	1	FDA 3 15	5.5	8.84	61.0	4600 - 6000	1/2	3	10.3	2	7/8	2	1/2
SDX170	1	FDA 3 15	5.5	8.84	61.0	4600 - 6000	1/2	4	10.3	1	1 3/8	1	5/8
SDX170T	1	FDA 3 15	5.5	8.84	61.0	4600 - 6000	1/2	4	10.3	2	1 1/8	2	1/2
SDX200	1	FDA 355	7.5	12.0	83.0	4800 - 7300	1/2	3	12.9	1	1 1/8	1	1/2
SDX230	1	FDA 355	7.5	12.0	83.0	4800 - 7300	1/2	4	12.9	2	1 3/8	2	1/2
SDX260	1	FDA 400	10.0	14.9	104.0	7000 - 10000	1/2	3	17.8	2	1 3/8	2	5/8
SDX300	1	FDA 500	15.0	22.0	156.0	9000 - 12000	1/2	3	20.0	2	1 3/8	2	5/8
SDX350	1	FDA 500	15.0	22.0	156.0	9000 - 12000	1/2	4	20.0	2	1 3/8	2	5/8
SDX390	1	FDA 500	15.0	22.0	156.0	11000 - 15000	1/2	3	26.7	3	1 3/8	3	5/8
SDX450	1	FDA 500	15.0	22.0	156.0	11000 - 15000	1/2	4	26.7	3	1 3/8	3	5/8
SDX510	1	FDA 560	20.0	29.2	213.0	14800 - 19500	1/2	3	32.8	3	1 3/8	3	5/8
SDX580	1	FDA 560	20.0	29.2	213.0	15000 - 19900	1/2	4	31.6	4	1 3/8	4	5/8
SDX640	1	FDA 630	25.0	36.2	246.0	16000 - 21500	1/2	4	35.8	4	1 3/8	4	5/8
SDX690	1	FDA 630	25.0	36.2	246.0	17400 - 23200	1/2	4	38.8	4	1 3/8	4	5/8

- Notes
- 1) Minimum - Maximum voltages is 360 V - 440 V.
 - 2) MRA - Maximum must trip ampere.
 - 3) LRA - Locked rotor ampere.
 - 4) NRA - Nominal running ampere.
 - 5) FLA - Full load ampere.
 - 6) Noise level is sound pressure level, in dBA, measured at 1.5 m away from unit in free field.

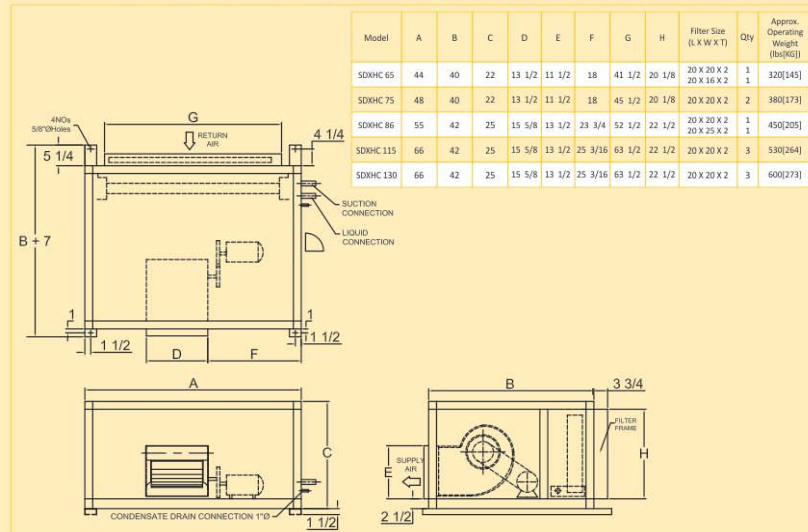
PHYSICAL DATA - AIR COOLED CONDENSING UNITS

MODEL SACC	QTY	COMPRESSOR			CONDENSER COIL		CONDENSER FAN / MOTOR			UNIT NOISE LEVEL (dBA)	APPROXIMATE OPERATING WEIGHT (lbs/kg)		
		MRA EACH	LRA EACH	NRA EACH	FACE AREA FT²	ROWS/ PPI	QTY	INPUT KW EACH	NRA EACH			MOTOR RPM	FAN DIAM (INCH)
65	1	10.0	74.0	8.8	11.6	2/14	1	0.53	1.40	950	26	68	450[205]
75	1	15.0	101.0	10.5	11.6	2/14	1	0.53	1.40	950	26	68	500[227]
86	1	16.4	95.0	12.0	13.9	2/14	1	0.53	1.40	950	26	69	560[255]
115	1	19.6	125.0	15.0	15.3	2/16	1	0.74	1.65	945	30	70	680[309]
130	1	22.3	125.0	16.7	15.3	3/14	1	0.82	1.73	940	30	71	780[355]
150	1	25.6	150.0	19.2	23.8	2/14	2	0.53	1.40	950	26	72	1000[455]
150T	2	2 (15.0)	2 (101.0)	2 (10.5)	23.8	2/14	2	0.53	1.40	950	26	73	1100[500]
170	1	30.0	179.0	24.3	27.5	2/14	2	0.53	1.40	950	26	72	1300[591]
170T	2	2 (16.4)	2 (95.0)	2 (12.0)	27.5	2/14	2	0.53	1.40	950	26	73	1450[659]
200	2	1 (16.4) 1 (19.6)	1 (95.0) 1 (125.0)	1 (12.0) 1 (15.0)	27.5	2/14	2	0.74	1.65	945	30	75	1650[750]
230	2	2 (19.6)	2 (125.0)	2 (15.0)	25.7	3/14	2	0.82	1.73	940	30	75	1900[864]
260	2	2 (22.3)	2 (125.0)	2 (16.7)	27.5	3/14	2	0.82	1.73	940	30	75	2000[909]
300	2	2 (25.6)	2 (150.0)	2 (19.2)	41.7	2/16	3	0.82	1.73	940	30	75	2450[1114]
350	2	2 (30.0)	2 (179.0)	2 (24.3)	41.7	3/14	3	0.82	1.73	940	30	77	2500[1136]
390	3	3 (23.3)	3 (125.0)	3 (15.0)	41.7	3/14	3	0.82	1.73	940	30	78	2500[1136]
450	3	3 (25.6)	3 (150.0)	3 (19.2)	49.5	3/14	4	0.82	1.73	940	30	80	3000[1364]
510	3	3 (30.0)	3 (179.0)	3 (24.3)	55.0	3/14	4	0.82	1.73	940	30	80	3100[1409]
580	4	4 (25.6)	4 (150.0)	4 (19.2)	78.0	2/16	4	0.98	2.15	685	36	82	3500[1591]
640	4	2 (25.6) 2 (30.0)	2 (150.0) 2 (179.0)	2 (19.2) 2 (24.3)	69.3	3/14	4	0.98	2.15	685	36	82	3900[1773]
690	4	4 (30.0)	4 (179.0)	4 (24.3)	78.0	3/14	4	0.98	2.15	685	36	82	4000[1818]

- Notes
- 1) Minimum - Maximum voltages is 360 V - 440 V / 3 phase / 50 Hz.
 - 2) MRA - Maximum must trip ampere.
 - 3) LRA - Locked rotor ampere.
 - 4) NRA - Nominal running ampere.
 - 5) FLA - Full load ampere.
 - 6) Noise level is sound pressure level, in dBA, measured at 1.5 m away from unit in free field.

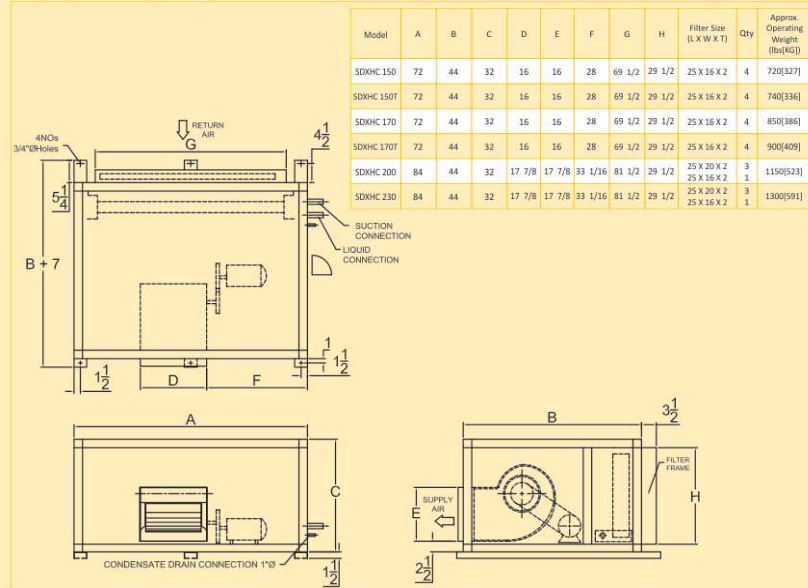
DIMENSIONAL DATA - EVAPORATOR UNIT

Horizontal Ceiling Mounted (SDXHC 65, 75, 86, 115 & 130)



Note: All dimension are in inches. Unless otherwise specified.

Horizontal Ceiling Mounted (SDXHC 150, 150T, 170, 170T, 200 & 230)



Note: All dimension are in inches. Unless otherwise specified.



INTRODUCTION

This series of Air-cooled Split Air-conditioners were developed by a group of industry engineers, each of them with over 20 years of experience in the design, manufacturing, installation and service of electric chillers, packaged air-conditioners, split air-conditioners, fancoils, air handling units, and related products.

- The Group is fully committed to innovative design, new and advance technology, value engineering and to provide expert personalized service to architects, consulting engineers, developers, building owners and contractors.
- The company's ability and courage to utilize and adopt latest technology, combined with fullest personalized assistance, has enabled the company to provide architects, consultants and developers various customized solutions to their various demanding application requirements.
- The company has the unique expertise and experience to custom design and fabricates equipment for installations in marine and corrosive environment, explosive and hazardous environment, low noise environment and any other special application needs!

Smartwise Innovations...
Towards Green, Quality & Reliability

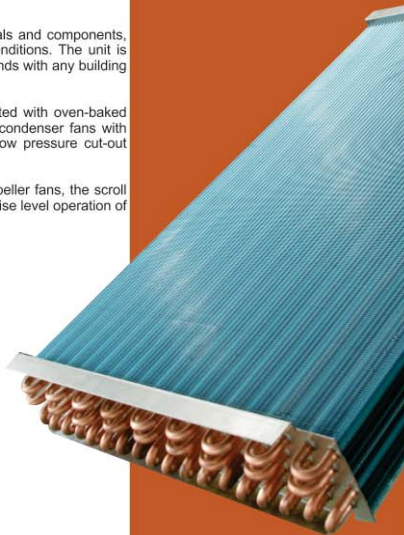
AIR COOLED CONDENSING UNITS

GENERAL DESCRIPTION

The air-cooled condensing unit is designed and manufactured, with quality materials and components, for efficient performance and high reliability, even in high ambient temperature conditions. The unit is easy to install, requiring minimal space requirement, and the casing finish easily blends with any building surroundings.

Each unit consists of a heavy gauge galvanised sheet metal casing which is coated with oven-baked polyester paint, one or multiple hermetic scroll compressor, one or multiple axial condenser fans with direct drive 3 phase induction motor, a large surface area condenser coil, high-low pressure cut-out switch, suction and liquid stop valves.

With large surface area condenser coil and low noise and highly efficient axial propeller fans, the scroll compressor(s) operates at low condensing head pressure; resulting in overall low noise level operation of the complete unit.



Nomenclature

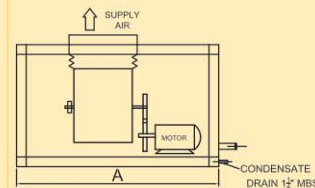
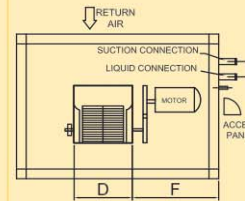
SACC	180	P
SACC Series Air Cooled Condensing Unit	Model Code Nominal Capacity	-- R-22 Refrigerant P R-407c Green Refrigerant



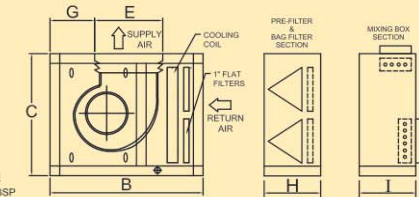
DIMENSIONAL DATA - EVAPORATOR UNIT

Horizontal Floor Mounted

(SDXHF 200, 230, 260, 300, 350, 390, 450, 510, 580, 640 & 690)



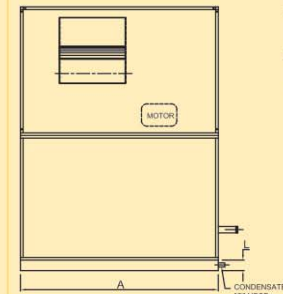
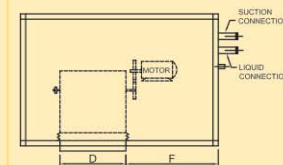
Model	A	B	C	D	E	F	G	H	I	Filter Size (L X W X T)	Qty	Approx. Operating Weight (lbs)
SDXHF 200	64	58	50 1/2	18	18	29	12	27 1/2	22 1/2	20 X 20 X 2 16 X 20 X 2	4 2	1150
SDXHF 230	64	58	50 1/2	18	18	29	12	27 1/2	22 1/2	20 X 20 X 2 16 X 20 X 2	4 2	1300
SDXHF 260	77	61	50 1/2	20	20	36 1/2	13	27 1/2	22 1/2	20 X 20 X 2 20 X 16 X 2	4 4	1600
SDXHF 300	77	69	62	25 1/4	25 1/4	36 1/2	14 1/2	27 1/2	27 1/2	20 X 25 X 2 16 X 25 X 2	4 4	1950
SDXHF 350	77	69	62	25 1/4	25 1/4	36 1/2	14 1/2	27 1/2	27 1/2	20 X 25 X 2 16 X 25 X 2	4 4	2150
SDXHF 390	77	69	73	25 1/4	25 1/4	36 1/2	14 1/2	27 1/2	27 1/2	20 X 25 X 2 20 X 20 X 2	6 3	2300
SDXHF 450	77	69	73	25 1/4	25 1/4	36 1/2	14 1/2	27 1/2	27 1/2	20 X 25 X 2 20 X 20 X 2	6 3	2600
SDXHF 510	86 1/2	74	81	28 3/8	28 3/8	40 1/2	15 1/2	27 1/2	27 1/2	20 X 25 X 2 20 X 20 X 2	8 4	2800
SDXHF 580	86 1/2	74	81	28 3/8	28 3/8	40 1/2	15 1/2	27 1/2	27 1/2	20 X 25 X 2 20 X 20 X 2	8 4	3200
SDXHF 640	106	83	84 1/2	32	32	42	19 1/4	29	32	20 X 25 X 2	10	3500
SDXHF 690	106	83	84 1/2	32	32	42	19 1/4	29	32	20 X 20 X 2	5	3650



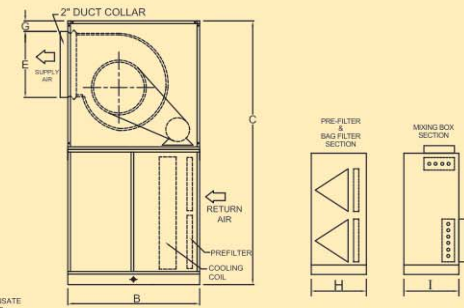
Note: All dimension are in inches. Unless otherwise specified.

Vertical Floor Mounted

(SDXVF 200, 230, 260, 300, 350, 390, 450, 510 & 580)

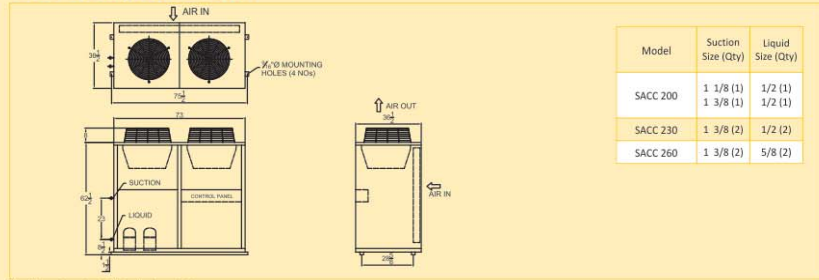


Model	A	B	C	D	E	F	G	H	I	Filter Size (L X W X T)	Qty	Approx. Operating Weight (lbs)
SDXVF 200	64	40	96	18	18	29	4	27 1/2	22 1/2	20 X 20 X 2 16 X 20 X 2	4 2	1400
SDXVF 230	64	40	96	18	18	29	4	27 1/2	22 1/2	20 X 20 X 2 16 X 20 X 2	4 2	1550
SDXVF 260	77	45	97	20	20	36 1/2	4	27 1/2	22 1/2	20 X 20 X 2 20 X 16 X 2	4 4	1900
SDXVF 300	77	55	107 1/2	25 1/4	25 1/4	36 1/2	4	27 1/2	27 1/2	20 X 25 X 2 16 X 25 X 2	4 4	2350
SDXVF 350	77	55	107 1/2	25 1/4	25 1/4	36 1/2	4	27 1/2	27 1/2	20 X 25 X 2 16 X 25 X 2	4 4	2550
SDXVF 390	77	55	119 1/2	25 1/4	25 1/4	36 1/2	4	27 1/2	27 1/2	20 X 25 X 2 20 X 20 X 2	6 3	2900
SDXVF 450	77	55	119 1/2	25 1/4	25 1/4	36 1/2	4	27 1/2	27 1/2	20 X 25 X 2 20 X 20 X 2	6 3	3200
SDXVF 510	77	55	139 1/2	28 1/4	28 1/4	37 1/2	4	29	32	20 X 20 X 2 20 X 20 X 2	4 4	4200
SDXVF 580	77	55	139 1/2	28 1/4	28 1/4	37 1/2	4	29	32	25 X 20 X 2	8	4350



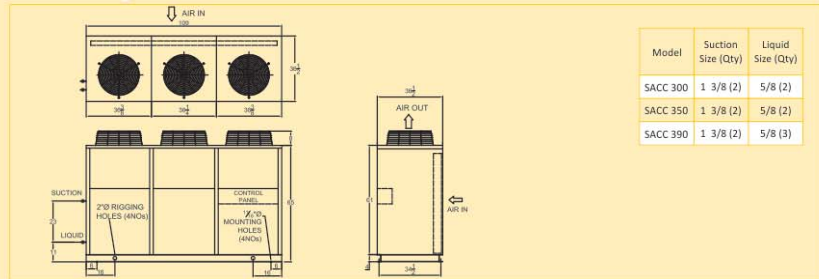
DIMENSIONAL DATA - CONDENSING UNIT

SACC 200, 230 & 260



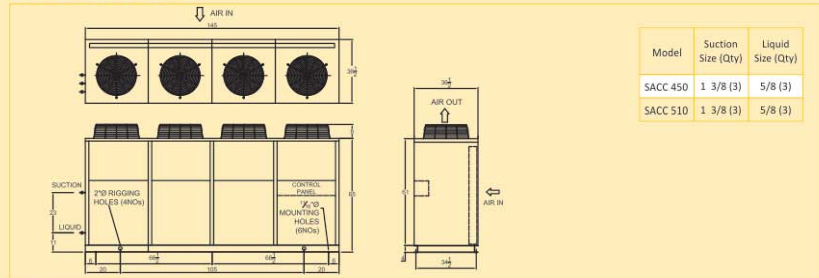
Note: All dimension are in inches. Unless otherwise specified.

SACC 300, 350 & 390



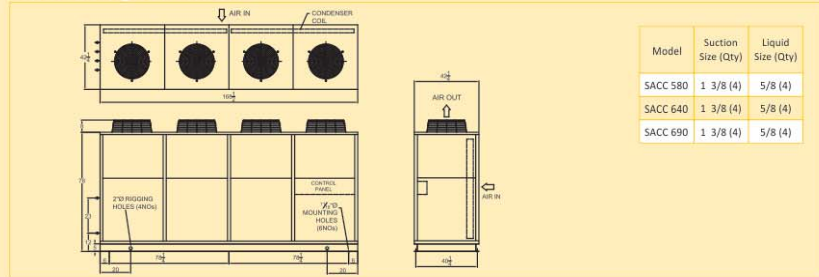
Note: All dimension are in inches. Unless otherwise specified.

SACC 450 & 510



Note: All dimension are in inches. Unless otherwise specified.

SACC 580, 640 & 690



Note: All dimension are in inches. Unless otherwise specified.

FEATURES

Compressor

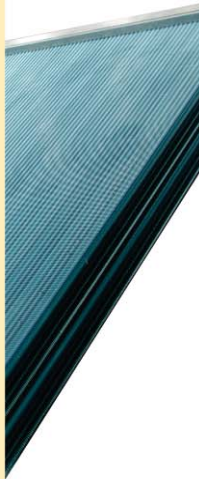
- Hermetic Scroll Compressor(s) type operating at 2950 rpm
- Proven high efficiency, low noise and high reliability of compressor(s) design
- No-contact scroll design and 100% suction gas cooled motor ensure long operating life
- Compressors are compartmentalised to reduce noise break-out
- With internal line break or solid state motor protectors
- Single and multiple compressors each with independent refrigerant circuits
- High low pressure cut-outs are provided for each compressor
- Suction and liquid stop valves are provided for each compressor
- Multiple compressors increase system efficiency by sequential staging of multiple compressor to match building
- Reduced field connection and piping works
- Avoids total shut down during servicing or multiple compressor(s) provide redundancy and repair

High Efficiency Condenser Coils

- Staggered 3/8" inner groove tubes with 25-30% increased surface area
- Mechanically expanded into die-formed corrugated aluminum fins to ensure positive bonding
- Integral subcooling circuit to maximise system efficiency and reduce flash gas formation
- Fully leak tested to 3105 kPa
- Access ports provided on discharge, liquid and suction lines for pressure measurements and "charging"
- Condenser fan motors of IP 54 (minimum protection), maximum 950 rpm, 3-phase induction motors, with high starting torque and low noise fan operation
- Coated condenser coil fins to improve corrosion resistance. Coils can withstand salt-spray test up to minimum 1000 hours

Casing

- Constructed of heavy gauge galvanised steel sheet to ensure unit casing rigidity and eliminate casing "drumming" and vibration
- Oven-baked epoxy polyester paint finished
- Excellent finish, weather ability and high corrosion resistance against rust



SDX EVAPORATOR-BLOWER UNITS

GENERAL DESCRIPTION

The Indoor ducted evaporator-blower unit is designed and manufactured, with quality materials and components, to match the corresponding outdoor condensing unit, to provide efficient performance and reliable operation.

Each unit consists of a double-wall casing cabinetry, a centrifugal blower fan, an evaporator cooling coil, motor and drive package resiliently mounted and isolated from unit casing with vibration isolators, thermal expansion valve(s), flexible canvas connector and heavy duty bearings.

Three type of configurations namely, horizontal ceiling mounted type, horizontal floor mounted type and vertical floor mounted type, each with various optimal fan discharge arrangements, covering a wider cooling capacity range from 6500 Btu/hr to 69000 Btu/hr; can be selected to suit any installation requirement and space constraint. The evaporator-blower unit can also be provided with optimal accessory sections such as bag filter section, angle filter section and mixing box section.

Nomenclature

SDX

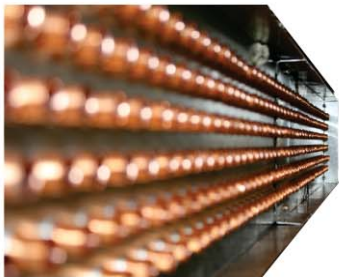
SMARTECH DX Series Evaporator Units

HF

HF - Horizontal Floor Mounted
HC - Horizontal Ceiling Mounted
VF - Vertical Floor Mounted

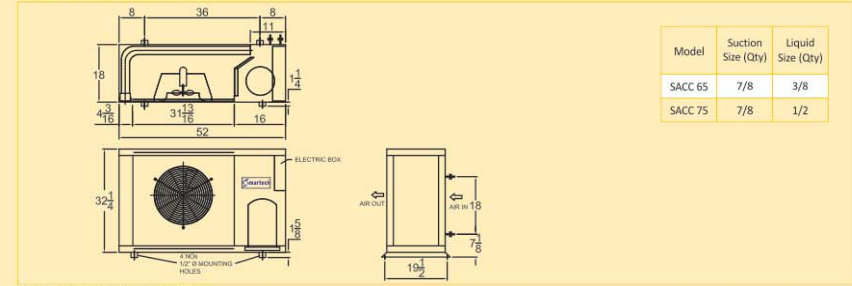
200

Model Code
- Nominal Capacity

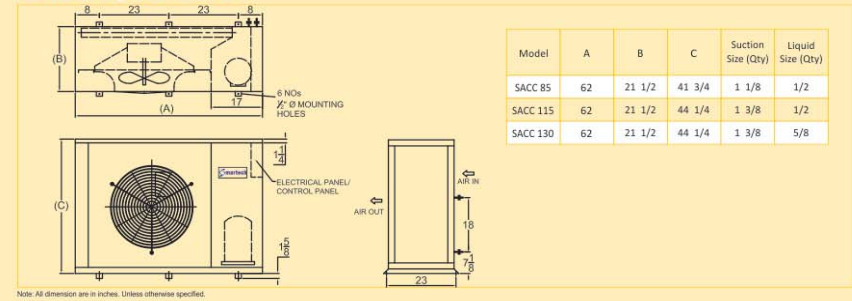


DIMENSIONAL DATA - CONDENSING UNIT

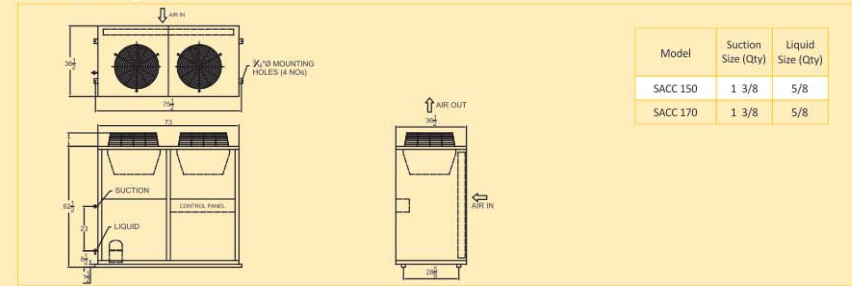
SACC 65 & 75



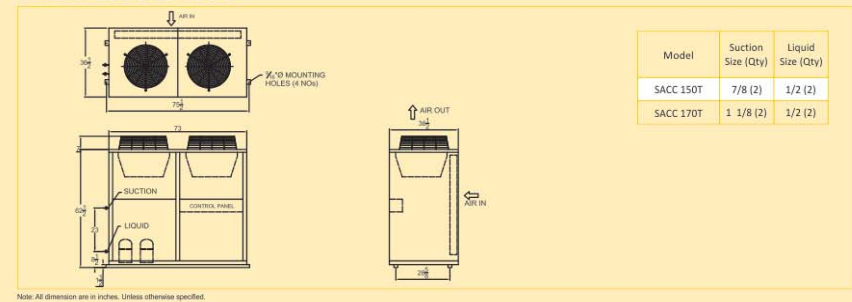
SACC 86, 115 & 130



SACC 150, 170



SACC 150T & 170T



BLOWER PERFORMANCE TABLE

SDX 390																
CFM	0.50" WG		1.00" WG		1.50" WG		2.00" WG		2.50" WG		3.00" WG		3.50" WG		4.00" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11000	577	4.48	668	5.60	753	6.81	831	8.09	904	9.41	974	10.81	1043	12.35	1112	14.05
12000	607	5.50	691	6.70	772	7.99	848	9.34	918	10.74	985	12.19	1049	13.70	1112	15.34
13000	636	6.66	716	7.96	793	9.30	865	10.72	934	12.21	998	13.74	1060	15.30	1119	16.93
14000	668	8.01	744	9.41	815	10.81	885	12.31	951	13.87	1014	15.48	1074	17.13	1131	18.81
15500	711	10.31	781	11.80	848	13.33	912	14.91	975	16.58	1035	18.30	1093	20.05	1148	21.87

SDX 450																
CFM	0.50" WG		1.00" WG		1.50" WG		2.00" WG		2.50" WG		3.00" WG		3.50" WG		4.00" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11000	583	4.54	673	5.66	758	6.89	836	8.17	908	9.49	978	10.90	1047	12.46	1116	14.16
12000	614	5.60	698	6.79	779	8.09	854	9.45	924	10.86	990	12.31	1054	13.83	1117	15.48
13000	645	6.79	724	8.08	800	9.45	872	10.87	940	12.36	1004	13.89	1066	15.46	1125	17.09
15500	707	10.23	777	11.70	844	13.25	909	14.82	972	16.48	1032	18.19	1090	19.95	1145	21.76
16500	742	12.09	808	13.65	873	15.29	934	16.93	994	18.66	1052	20.44	1108	22.27	1162	24.15

SDX 510																
CFM	0.50" WG		1.00" WG		1.50" WG		2.00" WG		2.50" WG		3.00" WG		3.50" WG		4.00" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13000	498	4.75	581	6.05	655	7.42	725	8.86	794	10.50	863	12.36	930	14.34		
14500	527	6.09	602	7.48	674	8.98	739	10.50	801	12.11	864	13.89	926	15.88	987	18.01
16000	555	7.65	626	9.15	693	10.74	757	12.42	815	14.09	872	15.85	928	17.77	985	19.85
17500	585	9.48	653	11.14	716	12.81	776	14.59	833	16.43	887	18.27	938	20.17	990	22.20
19000	616	11.64	682	13.45	741	15.23	798	17.09	853	19.03	905	21.03	954	23.03	1002	25.09

SDX 580																
CFM	0.50" WG		1.00" WG		1.50" WG		2.00" WG		2.50" WG		3.00" WG		3.50" WG		4.00" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13000	503	4.83	585	6.13	659	7.50	729	8.95	798	10.60	868	12.47	933	14.44		
14500	533	6.20	608	7.58	679	9.10	744	10.62	806	12.24	869	14.04	931	16.04	992	18.20
16000	563	7.80	633	9.30	700	10.90	763	12.58	821	14.27	877	16.04	934	17.97	990	20.08
17500	593	9.68	661	11.34	723	13.02	783	14.81	840	16.64	893	18.48	945	20.42	996	22.46
19000	626	11.88	690	13.70	749	15.48	805	17.34	860	19.32	912	21.32	961	23.32	1009	25.37

SDX 640																
CFM	0.50" WG		1.00" WG		1.50" WG		2.00" WG		2.50" WG		3.00" WG		3.50" WG		4.00" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	446	5.48	524	7.07	592	8.85	656	10.70	717	12.63	777	14.81	842	17.34	910	20.35
16500	470	6.85	541	8.47	608	10.35	668	12.35	726	14.38	781	16.50	835	18.82	893	21.46
18000	496	8.48	559	10.09	624	12.05	682	14.16	736	16.35	789	18.56	840	20.86	890	23.32
19500	525	10.47	579	12.01	640	14.01	698	16.21	750	18.52	800	20.91	849	23.32	896	25.77
21000			603	14.27	659	16.27	715	18.56	766	20.97	814	23.48	860	26.05	906	28.63

SDX 690																
CFM	0.50" WG		1.00" WG		1.50" WG		2.00" WG		2.50" WG		3.00" WG		3.50" WG		4.00" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16000	454	6.21	528	7.80	596	9.62	657	11.57	716	13.56	773	15.65	830	17.99	890	20.68
17500	481	7.77	546	9.33	612	11.25	671	13.30	727	15.45	781	17.61	832	19.88	884	22.35
19000	510	9.64	565	11.13	628	13.09	686	15.23	739	17.50	790	19.84	840	22.17	888	24.60
21500			598	14.63	650	16.54	706	18.77	758	21.18	807	23.69	853	26.30	898	28.94
23000			626	17.40	671	19.21	723	21.45	774	23.95	822	26.55	867	29.25	910	32.04

FEATURES

Casing

- All casing cabinetry are of Double-walled construction with 1 inch. thick polyurethane insulation sandwiched between heavy gauge steel sheets
- The casing frame work is constructed from rigid extruded Aluminium structural section, locked together by cast aluminium or rigid nylon corner jointing modules, to form a rigid frame-work
- Casing panels are coated with oven-baked polyester paint
- Removable side panels for easy access to internal components and filters
- Fiberglass insulation in lieu of polyurethane insulation is available as option

Blower

- All standard fans are of forward curved Centrifugal double-width, double inlet type, belt driven and suitable for ducted supply air operation. Non-overloading type, backward curved fans are available as option
- For unit capacity above 150,000 Btu/hr (size 150 and above), all fans are suitable for Class II operations and fitted with heavy duty pillow block bearings
- All fan motor and drive assembly are internally isolated from unit casing. For size up to 130, rubber grommets are provided; for size 150 and above, spring vibration isolators are provided

Coil

- All evaporator coils are constructed from pre-coated, hydrophilic aluminium fins; with low-surface tension, to prevent moisture carry over; dry and clean aluminium fins surface during off cycle to prevent mould formation and dirt accumulation; and to improve corrosion resistance

Filters

- All standard filters are of 2 inch. thick, washable type
- Optional bag filter section, angle-filter sections and mixing box section can be provided
- Flexible loading configurations to meet building requirements

Optional Accessories

- Wired IEC-CE Direct Online Starters
- Suction, Discharge & Liquid Stop Valves
- Hot gas bypass
- Low Ambient Kit (fan cycling) up to 7C
- Reverse cycle heat pump
- Thermostat
- Hydrophilic Coated Fins for indoor & outdoor units
- Axial fan for ducted air discharge (outdoor units)



BLOWER PERFORMANCE TABLE

SDX 65										
CFM	0.50" WG		0.75" WG		1.00" WG		1.25" WG		1.50" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1800	909	0.54	1006	0.66	1107	0.75	1212	0.90	1318	1.07
2000	940	0.67	1038	0.78	1124	0.91	1214	1.02	1308	1.15
2200	984	0.83	1078	0.94	1162	1.07	1240	1.22	1322	1.33
2400	1017	0.99	1101	1.13	1187	1.23	1264	1.38	1335	1.54
2600	1058	1.19	1136	1.33	1215	1.46	1294	1.60	1364	1.74

SDX 75										
CFM	0.50" WG		0.75" WG		1.00" WG		1.25" WG		1.50" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1800	917	0.55	1014	0.67	1115	0.77	1220	0.91	1326	1.09
2000	973	0.70	1066	0.82	1152	0.94	1244	1.06	1339	1.22
2200	991	0.85	1085	0.95	1168	1.09	1247	1.22	1329	1.34
2400	1034	1.02	1118	1.14	1204	1.26	1278	1.42	1350	1.57
2600	1074	1.22	1152	1.36	1231	1.49	1309	1.62	1378	1.79

SDX 86										
CFM	0.50" WG		0.75" WG		1.00" WG		1.25" WG		1.50" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2600	786	0.81	876	0.97	979	1.15	1090	1.41	1193	1.66
2900	815	0.98	898	1.15	979	1.34	1071	1.56	1170	1.81
3200	851	1.21	934	1.41	1007	1.60	1081	1.80	1163	2.03
3500	874	1.45	954	1.65	1028	1.85	1095	2.07	1162	2.28
3750	903	1.69	979	1.89	1053	2.12	1119	2.35	1181	2.58

SDX 115														
CFM	0.50" WG		0.75" WG		1.00" WG		1.25" WG		1.50" WG		1.75" WG		2.00" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3100	795	1.05	884	1.23	961	1.41	1036	1.61	1120	1.83	1211	2.09	1305	2.40
3500	827	1.33	910	1.53	988	1.74	1058	1.95	1124	2.16	1193	2.39	1268	2.64
3900	861	1.66	938	1.89	1012	2.11	1083	2.35	1148	2.58	1208	2.82	1267	3.05
4300	900	2.08	971	2.31	1040	2.56	1108	2.81	1173	3.06	1234	3.32	1291	3.57
4700	949	2.59	1012	2.83	1077	3.09	1140	3.36	1202	3.62	1262	3.89	1320	4.17

SDX 130														
CFM	0.50" WG		0.75" WG		1.00" WG		1.25" WG		1.50" WG		1.75" WG		2.00" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3100	828	1.11	913	1.30	987	1.48	1065	1.68	1152	1.92	1245	2.20	1337	2.51
3500	864	1.42	945	1.62	1020	1.84	1087	2.04	1153	2.26	1225	2.50	1303	2.77
3900	901	1.79	976	2.00	1049	2.23	1118	2.47	1179	2.70	1238	2.94	1299	3.18
4300	943	2.21	1013	2.46	1081	2.71	1147	2.95	1210	3.21	1269	3.48	1323	3.73
4700	989	2.74	1054	2.99	1117	3.26	1180	3.53	1240	3.80	1299	4.08	1355	4.36

SDX 150/150T														
CFM	0.50" WG		0.75" WG		1.00" WG		1.25" WG		1.50" WG		1.75" WG		2.00" WG	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4100	857	1.80	937	2.05	1011	2.31	1083	2.60	1158	2.89	1230	3.19	1301	3.53
4600	903	2.32	975	2.60	1046	2.87	1113	3.17	1177	3.48	1242	3.80	1309	4.13
5200	960	3.06	1023	3.36	1086	3.68	1149	3.99	1211	4.31	1269	4.64	1326	4.99
5700	1015	3.83	1073	4.13	1130	4.48	1187	4.82	1245	5.17	1302	5.50	1357	5.87
6200	1071	4.74	1127	5.06	1179	5.41	1232	5.79	1284	6.16	1338	6.52	1391	6.90

PERFORMANCE TABLE



SINGLE COND. UNIT MODEL	EVAP. BLOWER MODEL	STD. CAP. MBH	AIR ON EVAP. CFM	WB TEMP. °F	AIR TEMPERATURE ON COIL - °F									
					75			95			115			
					TOTAL MBH	SENS MBH	kW	TOTAL MBH	SENS MBH	kW	TOTAL MBH	SENS MBH	kW	
SACC 260	SDX 260	260.0	8400	72	290.0	149.5	17.7	273.1	140.7	18.8	256.4	132.2	20.0	
					67	271.9	191.7	17.6	260.0	180.8	18.6	240.9	169.7	19.9
					62	250.9	225.8	17.3	238.2	214.4	18.6	222.7	200.4	19.8
SACC 300	SDX 300	300.0	9600	72	339.4	173.8	20.6	319.8	163.8	21.9	300.0	153.8	23.2	
					67	318.2	221.5	20.5	300.0	208.7	21.7	281.8	196.1	23.1
					62	294.0	264.6	20.1	278.7	250.8	21.5	251.4	226.3	23.0
SACC 350	SDX 350	350.0	10000	72	393.4	209.6	24.1	370.7	197.5	25.5	349.7	186.3	27.1	
					67	375.2	276.2	23.9	350.0	257.4	25.4	331.4	244.1	27.0
					62	342.2	308.0	23.3	320.7	288.6	25.2	302.5	272.3	26.8
SACC 390	SDX 390	390.0	12500	72	436.8	211.4	27.4	413.4	200.9	29.1	390.0	182.4	30.9	
					67	417.3	282.8	27.2	390.0	264.3	29.1	370.5	251.1	30.7
					62	382.2	340.9	26.7	358.8	317.2	28.7	335.4	301.3	30.6
SACC 450	SDX 450	450.0	13000	72	507.9	262.2	30.3	478.3	246.9	32.1	448.9	231.6	34.2	
					67	476.0	392.9	30.1	449.8	316.4	31.9	421.8	297.3	34.0
					62	439.9	395.9	29.6	417.1	375.4	31.7	390.0	350.9	33.8
SACC 510	SDX 510	510.0	16000	72	577.1	299.6	35.1	543.6	280.3	37.2	510.1	262.9	39.6	
					67	541.1	445.4	34.8	510.0	358.7	37.0	479.2	337.0	39.4
					62	499.8	449.8	34.2	474.1	426.7	36.7	443.1	398.8	39.1
SACC 580	SDX 580	580.0	16000	72	656.4	335.2	39.7	618.2	315.8	42.1	580.1	296.4	44.8	
					67	615.3	424.0	39.4	580.0	399.7	41.8	545.0	375.5	44.5
					62	568.4	511.6	38.8	539.1	485.2	41.5	504.1	453.7	44.3
SACC 640	SDX 640	640.0	17800	72	723.9	371.3	44.0	681.9	349.7	46.7	639.8	329.8	49.4	
					67	678.7	471.7	43.7	640.0	444.9	46.3	600.8	417.9	49.4
					62	626.9	564.2	43.0	594.6	535.1	46.1	556.0	500.4	49.0
SACC 690	SDX 690	690.0	19000	72	781.1	400.7	47.5	735.8	377.3	50.4	690.4	355.9	53.6	
					67	732.4	509.0	47.2	690.0	480.1	50.1	648.3	451.0	53.4
					62	676.5	608.9	46.4	641.7	577.5	49.7	599.9	539.9	53.0
				57	613.7	613.7	46.1	578.8	578.8	49.3	543.9	543.9	52.6	

Notes
 1) Total MBH - Rating are gross capacities, for net capacities, deduct evaporator blower motor heat.
 2) Sensible MBH - Capacities are based on at 80°F (26.6°C) air on evaporator.
 3) *kW - Compressor kW input.

PERFORMANCE TABLE



SINGLE COND. UNIT MODEL	EVAP. BLOWER MODEL	STD. CAP. MBH	AIR ON EVAP.		AIR TEMPERATURE ON COIL - °F								
			CFM	WB TEMP. °F	75			95			115		
					TOTAL MBH	SENS MBH	kW*	TOTAL MBH	SENS MBH	kW*	TOTAL MBH	SENS MBH	kW*
SACC 65	SDX 65	63.3	2200	72	71.2	38.8	4.4	67.3	37.0	4.8	63.3	33.4	5.0
				67	68.0	52.0	4.3	63.3	48.5	4.7	60.0	46.1	4.9
				62	62.0	56.1	4.1	58.1	58.5	4.6	54.8	49.6	4.8
				57	54.8	54.8	4.1	50.8	50.8	4.6	48.1	48.1	4.8
SACC 75	SDX 75	73.4	2400	72	82.3	44.8	5.3	77.6	42.6	5.7	73.2	38.4	6.0
				67	78.4	60.0	5.2	73.4	56.0	5.6	69.2	53.1	5.9
				62	71.4	64.8	5.0	67.0	60.7	5.5	63.1	57.2	5.7
				57	63.2	63.2	5.0	58.8	58.8	5.4	55.6	55.6	5.7
SACC 86	SDX 86	83.9	3200	72	94.4	52.1	6.0	88.9	49.1	6.4	83.9	46.3	6.7
				67	90.1	69.2	5.8	83.9	64.6	6.3	79.5	61.2	6.6
				62	82.2	74.5	5.8	77.0	69.8	6.2	72.6	65.9	6.5
				57	72.6	72.6	5.6	67.4	67.4	6.1	63.8	63.8	6.4
SACC 115	SDX 115	112.3	3800	72	125.2	69.4	7.8	119.0	65.3	8.3	111.4	61.5	8.7
				67	119.5	91.6	7.5	112.3	85.4	8.3	105.5	80.8	8.7
				62	108.9	98.8	7.4	102.9	93.2	8.1	96.2	87.3	8.1
				57	96.2	96.2	7.3	90.0	90.0	8.0	84.6	84.6	8.0
SACC 130	SDX 130	126.9	4000	72	141.9	70.4	8.7	134.9	66.3	9.3	126.2	62.4	9.6
				67	135.4	92.9	8.5	126.9	86.6	9.3	119.6	81.9	9.8
				62	123.5	111.3	8.4	116.5	104.2	9.1	109.1	98.3	9.5
				57	109.1	109.1	8.3	102.0	102.0	9.0	95.8	95.8	9.4
SACC 150, 150T	SDX 150	146.4	4800	72	164.9	97.3	10.5	155.5	91.7	11.2	146.6	86.3	11.7
				67	157.3	131.8	10.1	146.4	118.8	11.1	139.0	116.5	11.6
				62	143.7	130.2	10.0	134.5	121.9	10.9	126.8	114.9	11.3
				57	126.8	126.8	9.9	117.5	117.5	10.7	111.5	111.5	11.2
SACC 170, 170T	SDX 170, 170T	165.9	5000	72	186.8	93.0	11.9	176.0	96.7	12.8	165.9	91.3	13.4
				67	178.2	135.6	11.6	165.9	126.3	12.5	157.4	119.7	13.2
				62	162.5	147.4	11.4	152.2	137.9	12.3	143.7	130.3	13.0
				57	143.7	143.7	11.2	133.2	133.2	12.1	126.2	126.2	12.9
SACC 200	SDX 200	195.2	6200	72	220.8	132.6	13.9	208.0	125.0	14.7	195.2	117.1	15.6
				67	207.0	176.9	13.8	195.2	166.8	14.6	183.3	156.6	15.6
				62	191.3	173.4	13.6	181.3	164.4	14.5	169.5	153.6	15.5
				57	173.5	173.5	13.5	163.7	163.7	14.4	153.8	153.8	15.3
SACC 230	SDX 230	224.5	6600	72	250.3	136.6	15.7	236.0	128.7	16.7	222.6	121.4	17.4
				67	238.9	179.3	15.2	224.5	168.8	16.6	211.1	160.1	17.3
				62	217.9	197.6	15.0	204.1	185.0	16.2	192.5	174.5	17.0
				57	192.5	192.5	14.8	178.5	178.5	16.0	169.1	169.1	16.8

Notes
 1) Total MBH - Rating are gross capacities, for net capacities, deduct evaporator blower motor heat.
 2) Sensible MBH - Capacities are based on at 80°F (26.6°C) air on evaporator.
 3) *kW - Compressor kW input.

PERFORMANCE TABLE



SINGLE COND. UNIT MODEL	EVAP. BLOWER MODEL	STD. CAP. MBH	AIR ON EVAP.		AIR TEMPERATURE ON COIL - °F								
			CFM	WB TEMP. °F	75			95			115		
					TOTAL MBH	SENS MBH	kW*	TOTAL MBH	SENS MBH	kW*	TOTAL MBH	SENS MBH	kW*
SACC 260	SDX 260	253.8	8400	72	283.0	147.0	18.1	266.6	138.3	19.2	250.3	130.0	20.4
				67	265.4	188.4	18.0	253.8	177.7	19.0	235.1	166.8	20.3
				62	244.9	222.0	17.7	232.5	210.8	19.0	217.4	197.0	20.2
				57	222.4	222.4	17.7	209.8	209.8	18.8	197.3	197.3	20.0
SACC 300	SDX 300	292.8	9600	72	331.3	170.9	21.0	312.1	161.0	22.3	292.8	151.2	23.7
				67	310.6	217.7	20.9	292.8	205.2	22.1	275.0	192.8	23.6
				62	286.9	260.1	20.5	272.0	246.5	21.9	245.4	222.5	23.5
				57	260.3	260.3	20.4	245.5	245.5	21.8	230.6	230.6	23.3
SACC 350	SDX 350	341.6	10000	72	384.0	206.0	24.6	361.8	194.1	26.0	341.3	183.1	27.6
				67	366.2	271.5	24.4	341.6	253.0	25.9	323.5	240.0	27.5
				62	334.0	302.8	24.0	313.0	283.7	25.7	295.2	267.7	27.3
				57	295.2	295.2	23.8	273.7	273.7	25.5	259.3	259.3	27.1
SACC 390	SDX 390	380.6	12500	72	426.3	207.8	28.0	403.5	197.5	29.7	380.6	179.3	31.5
				67	407.3	278.0	27.7	380.6	259.8	29.7	361.6	246.8	31.3
				62	373.0	335.1	27.2	350.2	311.8	29.3	327.4	296.2	31.2
				57	327.4	327.4	27.1	304.5	304.5	29.0	289.3	289.3	30.9
SACC 450	SDX 450	439.0	13000	72	495.7	257.7	30.9	466.8	242.7	32.7	438.1	227.7	34.9
				67	464.6	386.2	30.7	439.0	311.0	32.5	411.7	292.3	34.7
				62	429.3	389.2	30.2	407.1	369.0	32.3	380.6	344.9	34.5
				57	389.5	389.5	30.0	367.3	367.3	32.0	344.9	344.9	34.3
SACC 510	SDX 510	497.8	16000	72	563.3	294.5	35.8	530.6	275.5	37.9	497.9	258.4	40.4
				67	528.1	437.8	35.5	497.8	352.6	37.7	467.7	331.3	40.2
				62	487.8	442.2	34.9	462.7	419.5	37.4	432.5	392.0	39.9
				57	442.5	442.5	34.7	417.3	417.3	37.1	392.2	392.2	39.6
SACC 580	SDX 580	566.1	16000	72	640.7	329.5	40.5	603.4	310.4	42.9	566.2	291.4	45.7
				67	600.5	416.8	40.2	566.1	392.9	42.6	531.9	369.1	45.4
				62	554.8	502.9	39.6	526.2	477.0	42.3	492.0	446.0	45.2
				57	503.3	503.3	39.4	474.7	474.7	42.0	446.1	446.1	44.8
SACC 640	SDX 640	624.6	17800	72	706.5	365.0	44.9	665.5	343.8	47.6	624.4	324.2	50.4
				67	662.4	463.7	44.6	624.6	437.3	47.2	586.4	410.8	50.4
				62	611.9	554.6	43.9	580.3	526.0	47.0	542.7	491.9	50.0
				57	555.1	551.0	43.6	523.5	523.5	46.6	492.0	492.0	49.7
SACC 690	SDX 690	673.4	19000	72	762.4	393.9	48.5	718.1	370.9	51.4	673.8	349.9	54.7
				67	714.8	500.4	48.1	673.4	471.9	51.1	632.7	443.3	54.5
				62	660.3	598.6	47.3	626.3	567.7	50.7	585.5	530.7	54.1
				57	599.0	599.0	47.0	564.9	564.9	50.3	530.9	530.9	53.7

Notes
 1) Total MBH - Rating are gross capacities, for net capacities, deduct evaporator blower motor heat.
 2) Sensible MBH - Capacities are based on at 80°F (26.6°C) air on evaporator.
 3) *kW - Compressor kW input.