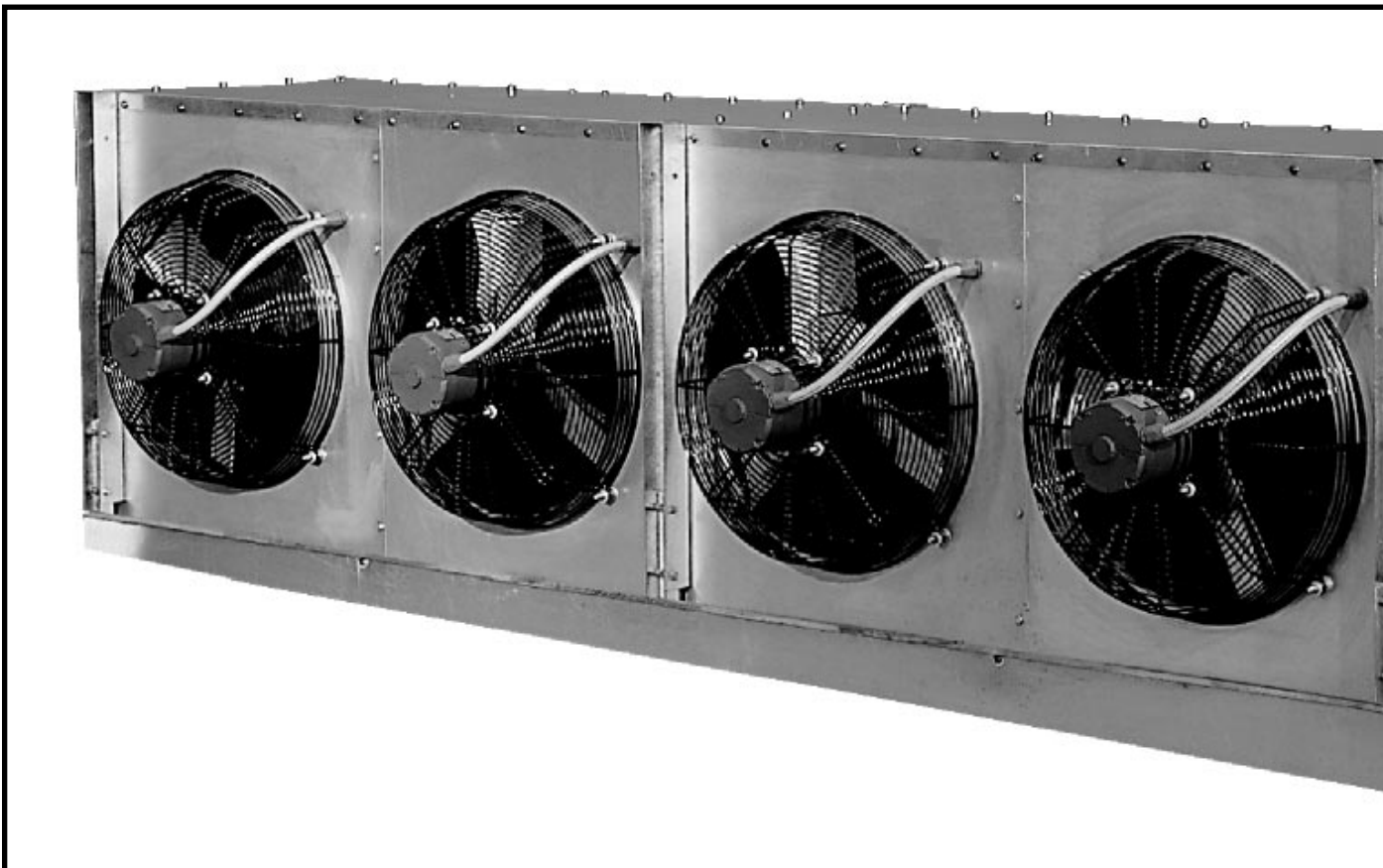


Frick[®]

SC Series

Galvanized Steel Unit Coolers



YORK[®]
Refrigeration

E200-340 SED/AUG 99

FILE: EQUIPMENT MANUAL - SECTION 200

REPLACES: E200-340 SED/MAR 99

DISTRIBUTION: 1, 1a, 1c, 4, 4c,

STANDARD FEATURES**CASING**

The unit casing is fabricated with heavy gauge corrosion resistant galvanized steel. Fan sections are compartmented to allow fan cycling and to prevent idle fans from turning in reverse. Fan panels have smooth surfaced, large radius orifices for efficient fan performance.

COIL

The cooling coil is constructed with steel tubes and fins. Tubes are staggered in the direction of air flow to assure maximum air turbulence and coil heat transfer efficiency.

The coil is available with 3, 4 or 6 fins per inch with tubes and fins supported by heavy gauge flanged tube sheets. The entire coil assembly is hot dip galvanized after fabrication. Coils are submersion tested before and after galvanizing with 350 psig air pressure, yielding a design working pressure of 280 psig.

Each coil is circuited for design operating conditions. This assures proper refrigerant mass velocities through the tubes and that refrigerant pressure drops will be kept to a minimum.

All coils can be circuited for:

Liquid Recirculation	Direct Expansion
Flooded	Brine Circulation
Controlled Pressure	Heat Reclaim

DRAIN PAN

The drain pan is constructed of heavy gauge galvanized steel and shipped in place on the unit. All pans are smooth surfaced, sloped end to end to assure rapid and complete drainage.

MOTORS & FANS

The fan motors are TEAO (Totally Enclosed Air Over) three phase, ball bearing, 1140 rpm with internal thermal overload protection. Low temperature grease is provided.

Direct drive axial propeller fans are of heavy duty construction. Fan guards meet OSHA standards, and are PVC coated.

OPTIONAL ARRANGEMENTS**INSULATED DRAIN PAN**

High efficiency foam insulation is positioned between the inner drain pan and outer cover. Both the inner drain pan and outer cover are fabricated from mill galvanized steel as standard. Stainless steel pans and pan covers are also available.

HOT GAS HEATED DRAIN PAN

A pan coil is attached to the underside of the inner pan. This allows access to the drain pan and a smooth surfaced pan interior for ease of cleaning. The coil is circuited to provide fast, efficient defrost. Pan coils are piped in series with the cooling coil to provide a single hot gas inlet. For selected liquid over-feed applications, the pan coil can be piped in parallel to the cooling coil.

PAN COIL CHECK VALVE

A check valve with piping is provided to connect the pan coil outlet with the cooling coil hot gas inlet, isolating the pan coil from refrigerant circulation during the refrigeration cycle.

WATER DEFROST

Spray trees with full coverage non-clogging nozzles and over-size drain pan and connections are provided. Spray tree and nozzles are easily accessible for inspection.

MOTORS & WIRING

230/1/60 single phase, is available on 1/3 and 1/2 HP motors. Individual fan motors can be factory prewired to a common junction box. A factory-mounted disconnect and a motor control center are also available.

CASING

The unit casing can be fabricated of heavy-gauge stainless steel.

VARIABLE FREQUENCY DRIVE

Motors suitable for variable frequency drives are available. Special motor and wiring arrangements are required for this option.

Note: This manual subject to change without notice.

RATING DATA

1. All coil capacities are based on sensible heat removal using liquid recirculated, controlled pressure, or flooded ammonia feed. See Capacity Correction Factors for other applications.
2. Temperature difference is the difference in degree F between the air entering the evaporator, or room air, and the coil saturated suction temperature as measured at the suction connection with a pressure gauge.
3. Multiply Btu/h per°F TD ratings by TD to determine product cooler sensible heat capacity. Use capacity correction multipliers as required.
4. Fan motor heat is not included in the ratings and must be added to the load estimate. Add 4000 Btu/h per horsepower to the room load.
5. Brine applications require factory engineered selections. Provide total load, room temperature, brine type and concentration, supply temperature and GPM.
6. Sound level in dB(A) is per fan manufacturer's data and is an average sound pressure reading considering the entire performance range of the fan. It represents the noise that might be expected at a distance of 6 feet from the fan in a room having a combination of hard and soft surfaces. In multiple unit applications, the sound levels will be higher. Overall sound pressure will vary with room size, shape, temperature, and acoustic absorption.
7. Controlled Pressure Receiver:
Liquid feed from controlled pressure receivers will be at mixed liquid temperature between the saturated temperature at receiver pressure and the return liquid temperature from the accumulator. Special circuiting limitations and defrost piping options may apply. Mixed liquid temperature and receiver pressure must be furnished with the order.
8. Direct Expansion Feed Limitations:
 - Liquid feed to thermostatic expansion valves must have at least 5° F liquid subcooling year round.
 - The liquid temperature entering the expansion valve must be at least 30° F higher than coil suction temperature.
 - A minimum 10° F temperature difference is required between room air and coil saturated suction temperature.

		CAPACITY CORRECTION FACTORS						
		SUCTION TEMPERATURE (°F)						
FEED TYPE	REFRIG-ERANT	>20	10	0	-10	-20	-30	-40
DX	R-717	0.85	0.84	0.83	–	–	–	–
LB,LT,FL,CB,CT	R-22	0.97	0.96	0.95	0.94	0.92	0.89	0.85
DX	R-22	0.82	0.81	0.79	0.76	0.72	0.66	0.60

Note: Where application falls between values in the table, interpolation is required. If application falls outside of table values, please consult factory.

SCS SERIES

UNIT COOLERS

COIL CONNECTION SIZES

STANDARD COIL CONNECTION SIZES (R-717) ⁽¹⁾

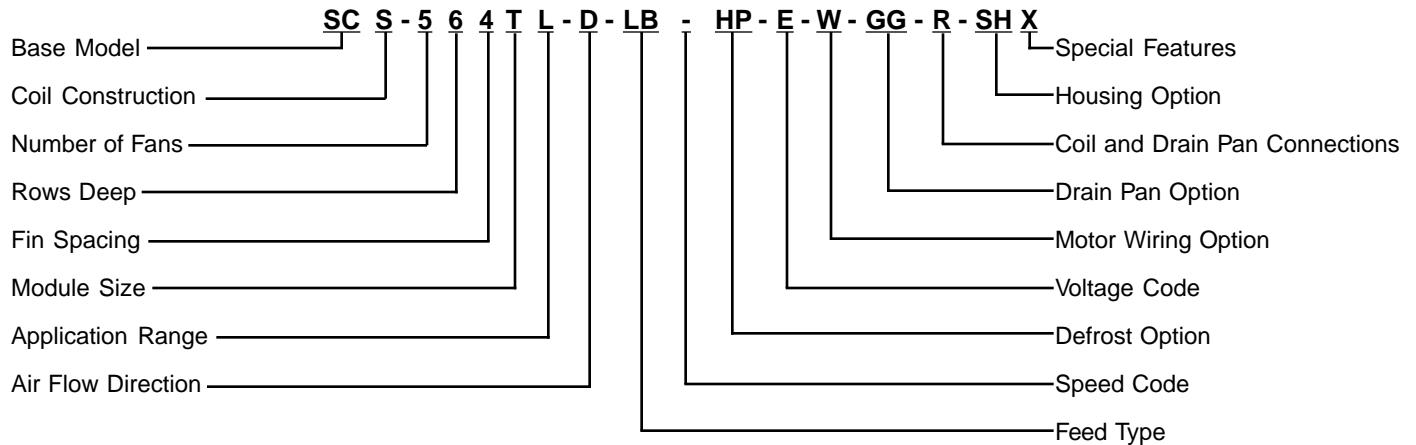
CAP. TONS	RECIRCULATED AMMONIA ⁽²⁾							DX AMMONIA			FLOODED AMMONIA ⁽⁴⁾					
	LIQUID CONN. (inch)	SUCTION TEMPERATURE (°F)						LIQUID CONN. (inch)	SUCT. TEMP. (°F)		LIQ. LEG (inch)	SUCTION TEMPERATURE (°F)				
		+30	+20	0	-20	-30	-40		+30	+20		+30	+20	0	-20	-30
		SUCTION CONNECTION (inch)							SUCT. CONN. (inch)			SUCTION CONNECTION (inch)				
5	3/4	1 1/2	1 1/2	2	2	2	2	see note (7)	1	1	2	2	2	2	2	2
10	3/4	1 1/2	1 1/2	2	2	2 1/2	2 1/2	see note (7)	1 1/4	1 1/4	2	2	2 1/2	2 1/2	2 1/2	3
15	3/4	1 1/2	2	2 1/2	2 1/2	3	3	see note (7)	1 1/4	1 1/2	2 1/2	2 1/2	2 1/2	3	3	4
20	1	2	2	2 1/2	3	3	4	see note (7)	1 1/2	1 1/2	3	3	3	3	4	4
25	1	2	2 1/2	3	3	4	4	see note (7)	1 1/2	2	3	3	3	4	4	4
30	1 1/4	2 1/2	2 1/2	3	3	4	4	see note (7)	2	2	3	3	4	4	4	5

STANDARD COIL CONNECTION SIZES (R-22) ⁽¹⁾

CAP. TONS	RECIRCULATED R-22 ⁽²⁾							DX R-22 ⁽⁵⁾					
	LIQUID CONN. (inch)	SUCTION TEMPERATURE (°F)						LIQUID CONN. (inch)	SUCTION TEMPERATURE (°F)				
		+30	+20	0	-20	-30	-40		+30	+20	0	-20	-30
		SUCTION CONNECTION (inch)							SUCTION CONNECTION (inch)				
5	3/4	1 1/2	1 1/2	2	2 1/2	2 1/2	2 1/2	see note (7)	1 1/2	1 1/2	1 1/2	2	2
10	1	1 1/2	1 1/2	2	2 1/2	3	3	see note (7)	1 1/2	1 1/2	2	2	2 1/2
15	1	1 1/2	2	2 1/2	3	3	4	see note (7)	2	2	2	2 1/2	3
20	1 1/2	2	2 1/2	2 1/2	3	3	4	see note (7)	2	2	2 1/2	3	3
25	1 1/2	2 1/2	2 1/2	2 1/2	3	4	4	see note (7)	2	2 1/2	3	3	
30	1 1/2	2 1/2	2 1/2	3	3	4	4	see note (7)	2 1/2	2 1/2			

Notes

- (1) Liquid and suction connection sizes may not be the required line sizes to meet system design requirements.
- (2) Recirculated line sizes are based on pumped liquid feed. Ammonia = 3:1 overfeed, R-22 = 2:1 overfeed.
- (3) Hot-dip galvanized steel coils for direct expansion R-22 will have brass distributors for direct connection to expansion valve.
- (4) For low temperature (-20°F or below) flooded operation, two liquid leg connections may be required.
- (5) Direct expansion R-22 outside of listed range may require multiple liquid inlets and suction connections.
- (6) Hot gas pan coil connection is 1 1/4".
- (7) Liquid inlet is for DX applications dependent upon distributor selection and requires evaluation on a case by case basis.

**COIL CONSTRUCTION**

S - Hot Dipped Galvanized Steel

NUMBER of FANS

1 through 8

ROWS DEEP

6 or 8

FIN SPACINGS

3 - 3 FPI

4 - 4 FPI

6 - 6 FPI

MODULE SIZES

S - Short

M - Medium

T - Tall

X - Tall, Extra Width

APPLICATION RANGES

L - Below +32°F Room Temperature Only

H - All Temperature Ranges

AIR FLOW DIRECTIONS

D - Draw through

B - Blow through

FEED TYPES

LB - Liquid recirculated bottom feed

LT - Liquid recirculated top feed

FL - Flooded feed

CB - Controlled pressure bottom feed

CT - Controlled pressure top feed

DX - Direct Expansion

BR - Brine or chilled water

SPEED CODE

- - 60Hz

DEFROST OPTIONS

HP - Hot gas coil and pan, piping, and check valve (parallel piped)

HS - Hot gas coil and pan, piping, and check valve (series piped)

HC - Hot gas coil only

WD - Water defrost

AD - Air defrost above 34°F room

BH - Hot brine, coil only, above 33°F room

BL - Hot brine, coil and pan, at or below 33°F room

VOLTAGE CODES

E - 208-230/460/3/60

J - 575/3/60

MOTOR WIRING OPTIONS

N - Motors not wired (standard)

W - Motors wired to common junction box

D - Motor wired to watertight, nonfused disconnect

C - Motor control center

DRAIN PAN OPTIONS

GG - Galvanized steel pan w/insulation and galvanized cover (standard)

GS - Galvanized steel pan w/insulation and stainless cover

SS - Stainless steel pan w/insulation and stainless cover

COIL AND DRAIN PAN CONNECTIONS

R - Right hand when facing fans.

L - Left hand when facing fans.

HOUSING OPTION (Omit if not used)

SH - Stainless housing. Fan guards are not stainless steel.

SPECIAL FEATURES (Omit if not used)

X - Describe fully special features such as control panels, disconnects, coil arrangements, that vary from our standard design.

SCS SERIES

UNIT COOLERS

PERFORMANCE DATA

MODEL ⁽¹⁾	COIL CAPACITY ⁽²⁾ (Btu/h per °FTD)		COIL PHYSICAL DATA					AIRSIDE DATA					Unit Weight (lbs)	
	Wet	Frosted	No. of Rows	Fins (fpi)	FaceArea (ft ²)	Surface (ft ²)	Volume (ft ³)	FanDia (inch)	Air Flow		Motors			Sound ⁽³⁾ dB(A)
									(cfm)	(fpm)	Qty	(hp)		
SCS - 163SH	2,040	1,860	6	3	5.21	353	0.83	20	3,124	600	1	1/3	64.4	449
SCS - 164SH	2,170	1,980	6	4	5.21	458	0.83	20	3,064	588	1	1/3	64.4	487
SCS - 166SH	2,400		6	6	5.21	667	0.83	20	2,948	566	1	1/3	64.4	564
SCS - 163SL		2,230	6	3	5.21	353	0.83	20	4,251	816	1	1/2	67.9	449
SCS - 164SL		2,370	6	4	5.21	458	0.83	20	4,127	792	1	1/2	67.9	487
SCS - 163MH	2,430	2,210	6	3	6.25	424	0.99	24	3,696	591	1	1/3	58.8	506
SCS - 164MH	2,570	2,340	6	4	6.25	550	0.99	24	3,601	576	1	1/3	58.8	552
SCS - 166MH	2,820		6	6	6.25	801	0.99	24	3,438	550	1	1/3	58.8	644
SCS - 163ML		2,700	6	3	6.25	424	0.99	24	5,202	832	1	1/2	62.6	506
SCS - 164ML		2,860	6	4	6.25	550	0.99	24	5,005	801	1	1/2	62.6	552
SCS - 163TH	2,880	2,610	6	3	7.29	495	1.16	24	4,409	605	1	1/3	64.9	563
SCS - 164TH	3,050	2,780	6	4	7.29	641	1.16	24	4,303	590	1	1/3	64.9	617
SCS - 166TH	3,360		6	6	7.29	934	1.16	24	4,121	565	1	1/3	64.9	724
SCS - 163TL		3,160	6	3	7.29	495	1.16	24	6,121	839	1	3/4	72.6	563
SCS - 164TL		3,370	6	4	7.29	641	1.16	24	5,946	815	1	3/4	72.6	617
SCS - 163XH	3,580	3,250	6	3	8.75	594	1.35	24	5,607	641	1	1/2	65.8	646
SCS - 164XH	3,810	3,460	6	4	8.75	769	1.35	24	5,486	627	1	1/2	65.8	710
SCS - 166XH	4,210		6	6	8.75	1121	1.35	24	5,269	602	1	1/2	65.8	839
SCS - 183XH	4,270	3,880	8	3	8.75	792	1.80	24	5,375	614	1	1/2	65.8	758
SCS - 184XH	4,510	4,100	8	4	8.75	1026	1.80	24	5,232	598	1	1/2	65.8	843
SCS - 186XH	4,850		8	6	8.75	1495	1.80	24	4,979	569	1	1/2	65.8	1016
SCS - 163XL		3,760	6	3	8.75	594	1.35	28	7,212	824	1	3/4	72.8	646
SCS - 164XL		4,000	6	4	8.75	769	1.35	28	6,992	799	1	3/4	72.8	710
SCS - 183XL		4,490	8	3	8.75	792	1.80	28	6,800	777	1	3/4	72.8	758
SCS - 184XL		4,740	8	4	8.75	1026	1.80	28	6,545	748	1	3/4	72.8	843
SCS - 263SH	4,080	3,720	6	3	10.42	707	1.50	20	6,248	600	2	1/3	67.4	848
SCS - 264SH	4,340	3,960	6	4	10.42	916	1.50	20	6,128	588	2	1/3	67.4	924
SCS - 266SH	4,800		6	6	10.42	1334	1.50	20	5,896	566	2	1/3	67.4	1078
SCS - 263SL		4,460	6	3	10.42	707	1.50	20	8,502	816	2	1/2	70.9	848
SCS - 264SL		4,740	6	4	10.42	916	1.50	20	8,254	792	2	1/2	70.9	924
SCS - 263MH	4,860	4,420	6	3	12.50	848	1.80	24	7,392	591	2	1/3	61.8	962
SCS - 264MH	5,140	4,690	6	4	12.50	1099	1.80	24	7,202	576	2	1/3	61.8	1054
SCS - 266MH	5,640		6	6	12.50	1601	1.80	24	6,876	550	2	1/3	61.8	1238
SCS - 263ML		5,400	6	3	12.50	848	1.80	24	10,404	832	2	1/2	65.6	962
SCS - 264ML		5,720	6	4	12.50	1099	1.80	24	10,010	801	2	1/2	65.6	1054
SCS - 263TH	5,760	5,230	6	3	14.58	990	2.10	24	8,818	605	2	1/3	67.9	1077
SCS - 264TH	6,100	5,560	6	4	14.58	1282	2.10	24	8,606	590	2	1/3	67.9	1183
SCS - 266TH	6,720		6	6	14.58	1868	2.10	24	8,242	565	2	1/3	67.9	1399
SCS - 263TL		6,330	6	3	14.58	990	2.10	24	12,242	839	2	3/4	75.6	1077
SCS - 264TL		6,740	6	4	14.58	1282	2.10	24	11,892	815	2	3/4	75.6	1183
SCS - 263XH	7,160	6,510	6	3	17.50	1187	2.48	24	11,214	641	2	1/2	68.8	1241
SCS - 264XH	7,620	6,930	6	4	17.50	1539	2.48	24	10,972	627	2	1/2	68.8	1369
SCS - 266XH	8,420		6	6	17.50	2242	2.48	24	10,538	602	2	1/2	68.8	1628
SCS - 283XH	8,540	7,760	8	3	17.50	1583	3.30	24	10,750	614	2	1/2	68.8	1466
SCS - 284XH	9,020	8,200	8	4	17.50	2052	3.30	24	10,464	598	2	1/2	68.8	1637
SCS - 286XH	9,700		8	6	17.50	2989	3.30	24	9,958	569	2	1/2	68.8	1982
SCS - 263XL		7,530	6	3	17.50	1187	2.48	28	14,424	824	2	3/4	75.8	1241
SCS - 264XL		8,000	6	4	17.50	1539	2.48	28	13,984	799	2	3/4	75.8	1369
SCS - 283XL		8,980	8	3	17.50	1583	3.30	28	13,600	777	2	3/4	75.8	1466
SCS - 284XL		9,480	8	4	17.50	2052	3.30	28	13,090	748	2	3/4	75.8	1637

(1) Shaded units have higher face velocities and should only be used in applications with room temperature below 32°F. Use in higher temperature rooms may result in moisture carryover.

(2) Ratings are for liquid recirculated, controlled pressure and flooded R-717.

(3) Noise levels are based on fan manufacturer's data. Actual levels may vary due to installation environment.

SCS SERIES
UNIT COOLERS
PERFORMANCE DATA

MODEL ⁽¹⁾	COIL CAPACITY ⁽²⁾ (Btu/h per °FTD)		COIL PHYSICAL DATA					AIRSIDE DATA					Unit Weight (lbs)	
	Wet	Frosted	No. of Rows	Fins (fpi)	FaceArea (ft ²)	Surface (ft ²)	Volume (ft ³)	FanDia (inch)	Air Flow		Motors			Sound ⁽³⁾ dB(A)
									(cfm)	(fpm)	Qty	(hp)		
SCS - 363SH	6,120	5,580	6	3	15.63	1060	2.17	20	9,372	600	3	1/3	68.9	1247
SCS - 364SH	6,510	5,940	6	4	15.63	1374	2.17	20	9,192	588	3	1/3	68.9	1361
SCS - 366SH	7,200		6	6	15.63	2002	2.17	20	8,844	566	3	1/3	68.9	1592
SCS - 363SL		6,690	6	3	15.63	1060	2.17	20	12,753	816	3	1/2	72.4	1247
SCS - 364SL		7,110	6	4	15.63	1374	2.17	20	12,381	792	3	1/2	72.4	1361
SCS - 363MH	7,290	6,630	6	3	18.75	1272	2.61	24	11,088	591	3	1/3	63.3	1419
SCS - 364MH	7,710	7,030	6	4	18.75	1649	2.61	24	10,803	576	3	1/3	63.3	1555
SCS - 366MH	8,460		6	6	18.75	2402	2.61	24	10,314	550	3	1/3	63.3	1833
SCS - 363ML		8,100	6	3	18.75	1272	2.61	24	15,606	832	3	1/2	67.1	1419
SCS - 364ML		8,580	6	4	18.75	1649	2.61	24	15,015	801	3	1/2	67.1	1555
SCS - 363TH	8,640	7,850	6	3	21.88	1484	3.04	24	13,227	605	3	1/3	69.4	1590
SCS - 364TH	9,150	8,340	6	4	21.88	1924	3.04	24	12,909	590	3	1/3	69.4	1750
SCS - 366TH	10,080		6	6	21.88	2802	3.04	24	12,363	565	3	1/3	69.4	2073
SCS - 363TL		9,500	6	3	21.88	1484	3.04	24	18,363	839	3	3/4	77.1	1590
SCS - 364TL		10,110	6	4	21.88	1924	3.04	24	17,838	815	3	3/4	77.1	1750
SCS - 363XH	10,740	9,770	6	3	26.25	1781	3.60	24	16,821	641	3	1/2	70.3	1837
SCS - 364XH	11,430	10,400	6	4	26.25	2308	3.60	24	16,458	627	3	1/2	70.3	2029
SCS - 366XH	12,630		6	6	26.25	3363	3.60	24	15,807	602	3	1/2	70.3	2417
SCS - 383XH	12,810	11,640	8	3	26.25	2375	4.81	24	16,125	614	3	1/2	70.3	2175
SCS - 384XH	13,530	12,300	8	4	26.25	3078	4.81	24	15,696	598	3	1/2	70.3	2430
SCS - 386XH	14,550		8	6	26.25	4484	4.81	24	14,937	569	3	1/2	70.3	2948
SCS - 363XL		11,290	6	3	26.25	1781	3.60	28	21,636	824	3	3/4	77.3	1837
SCS - 364XL		12,010	6	4	26.25	2308	3.60	28	20,976	799	3	3/4	77.3	2029
SCS - 383XL		13,480	8	3	26.25	2375	4.81	28	20,400	777	3	3/4	77.3	2175
SCS - 384XL		14,230	8	4	26.25	3078	4.81	28	19,635	748	3	3/4	77.3	2430
SCS - 463SH	8,160	7,440	6	3	20.83	1414	2.84	20	12,496	600	4	1/3	69.9	1646
SCS - 464SH	8,680	7,920	6	4	20.83	1832	2.84	20	12,256	588	4	1/3	69.9	1798
SCS - 466SH	9,600		6	6	20.83	2669	2.84	20	11,792	566	4	1/3	69.9	2106
SCS - 463SL		8,920	6	3	20.83	1414	2.84	20	17,004	816	4	1/2	73.4	1646
SCS - 464SL		9,480	6	4	20.83	1832	2.84	20	16,508	792	4	1/2	73.4	1798
SCS - 463MH	9,720	8,850	6	3	25.00	1696	3.41	24	14,784	591	4	1/3	64.3	1875
SCS - 464MH	10,280	9,380	6	4	25.00	2198	3.41	24	14,404	576	4	1/3	64.3	2057
SCS - 466MH	11,280		6	6	25.00	3203	3.41	24	13,752	550	4	1/3	64.3	2427
SCS - 463ML		10,810	6	3	25.00	1696	3.41	24	20,808	832	4	1/2	68.1	1875
SCS - 464ML		11,450	6	4	25.00	2198	3.41	24	20,020	801	4	1/2	68.1	2057
SCS - 463TH	11,520	10,470	6	3	29.17	1979	3.98	24	17,636	605	4	1/3	70.4	2104
SCS - 464TH	12,200	11,120	6	4	29.17	2565	3.98	24	17,212	590	4	1/3	70.4	2316
SCS - 466TH	13,440		6	6	29.17	3736	3.98	24	16,484	565	4	1/3	70.4	2748
SCS - 463TL		12,670	6	3	29.17	1979	3.98	24	24,484	839	4	3/4	78.1	2104
SCS - 464TL		13,490	6	4	29.17	2565	3.98	24	23,784	815	4	3/4	78.1	2316
SCS - 463XH	14,320	13,030	6	3	35.00	2375	4.73	24	22,428	641	4	1/2	71.3	2433
SCS - 464XH	15,240	13,870	6	4	35.00	3078	4.73	24	21,944	627	4	1/2	71.3	2688
SCS - 466XH	16,840		6	6	35.00	4484	4.73	24	21,076	602	4	1/2	71.3	3206
SCS - 483XH	17,080	15,530	8	3	35.00	3166	6.31	24	21,500	614	4	1/2	71.3	2883
SCS - 484XH	18,040	16,410	8	4	35.00	4104	6.31	24	20,928	598	4	1/2	71.3	3223
SCS - 486XH	19,400		8	6	35.00	5978	6.31	24	19,916	569	4	1/2	71.3	3913
SCS - 463XL		15,060	6	3	35.00	2375	4.73	28	28,848	824	4	3/4	78.3	2433
SCS - 464XL		16,010	6	4	35.00	3078	4.73	28	27,968	799	4	3/4	78.3	2688
SCS - 483XL		17,970	8	3	35.00	3166	6.31	28	27,200	777	4	3/4	78.3	2883
SCS - 484XL		18,970	8	4	35.00	4104	6.31	28	26,180	748	4	3/4	78.3	3223

(1) Shaded units have higher face velocities and should only be used in applications with room temperature below 32°F. Use in higher temperature rooms may result in moisture carryover.

(2) Ratings are for liquid recirculated, controlled pressure and flooded R-717.

(3) Noise levels are based on fan manufacturer's data. Actual levels may vary due to installation environment.

SCS SERIES
UNIT COOLERS
PERFORMANCE DATA

MODEL ⁽¹⁾	COIL CAPACITY ⁽²⁾ (Btu/h per °FTD)		COIL PHYSICAL DATA					AIRSIDE DATA					Unit Weight (lbs)	
	Wet	Frosted	No. of Rows	Fins (fpi)	FaceArea (ft ²)	Surface (ft ²)	Volume (ft ³)	FanDia (inch)	Air Flow		Motors			Sound ⁽³⁾ dB(A)
									(cfm)	(fpm)	Qty	(hp)		
SCS - 563SH	10,200	9,300	6	3	26.04	1767	3.51	20	15,620	600	5	1/3	70.6	2045
SCS - 564SH	10,850	9,900	6	4	26.04	2290	3.51	20	15,320	588	5	1/3	70.6	2235
SCS - 566SH	12,000		6	6	26.04	3336	3.51	20	14,740	566	5	1/3	70.6	2620
SCS - 563SL		11,150	6	3	26.04	1767	3.51	20	21,255	816	5	1/2	74.1	2045
SCS - 564SL		11,860	6	4	26.04	2290	3.51	20	20,635	792	5	1/2	74.1	2235
SCS - 563MH	12,150	11,060	6	3	31.25	2120	4.22	24	18,480	591	5	1/3	65.0	2331
SCS - 564MH	12,850	11,720	6	4	31.25	2748	4.22	24	18,005	576	5	1/3	65.0	2559
SCS - 566MH	14,100		6	6	31.25	4003	4.22	24	17,190	550	5	1/3	65.0	3021
SCS - 563ML		13,510	6	3	31.25	2120	4.22	24	26,010	832	5	1/2	68.8	2331
SCS - 564ML		14,310	6	4	31.25	2748	4.22	24	25,025	801	5	1/2	68.8	2559
SCS - 563TH	14,400	13,090	6	3	36.46	2474	4.92	24	22,045	605	5	1/3	71.1	2617
SCS - 564TH	15,250	13,900	6	4	36.46	3206	4.92	24	21,515	590	5	1/3	71.1	2883
SCS - 566TH	16,800		6	6	36.46	4670	4.92	24	20,605	565	5	1/3	71.1	3422
SCS - 563TL		15,840	6	3	36.46	2474	4.92	24	30,605	839	5	3/4	78.8	2617
SCS - 564TL		16,860	6	4	36.46	3206	4.92	24	29,730	815	5	3/4	78.8	2883
SCS - 563XH	17,900	16,290	6	3	43.75	2969	5.86	24	28,035	641	5	1/2	72.0	3028
SCS - 564XH	19,050	17,340	6	4	43.75	3847	5.86	24	27,430	627	5	1/2	72.0	3348
SCS - 566XH	21,050		6	6	43.75	5604	5.86	24	26,345	602	5	1/2	72.0	3994
SCS - 583XH	21,350	19,410	8	3	43.75	3958	7.81	24	26,875	614	5	1/2	72.0	3591
SCS - 584XH	22,550	20,510	8	4	43.75	5130	7.81	24	26,160	598	5	1/2	72.0	4017
SCS - 586XH	24,250		8	6	43.75	7473	7.81	24	24,895	569	5	1/2	72.0	4879
SCS - 563XL		18,820	6	3	43.75	2969	5.86	28	36,060	824	5	3/4	79.0	3028
SCS - 564XL		20,020	6	4	43.75	3847	5.86	28	34,960	799	5	3/4	79.0	3348
SCS - 583XL		22,470	8	3	43.75	3958	7.81	28	34,000	777	5	3/4	79.0	3591
SCS - 584XL		23,720	8	4	43.75	5130	7.81	28	32,725	748	5	3/4	79.0	4017
SCS - 663SH	12,240	11,160	6	3	31.25	2120	4.19	20	18,744	600	6	1/3	71.1	2444
SCS - 664SH	13,020	11,880	6	4	31.25	2748	4.19	20	18,384	588	6	1/3	71.1	2672
SCS - 666SH	14,400		6	6	31.25	4003	4.19	20	17,688	566	6	1/3	71.1	3134
SCS - 663SL		13,380	6	3	31.25	2120	4.19	20	25,506	816	6	1/2	74.6	2444
SCS - 664SL		14,230	6	4	31.25	2748	4.19	20	24,762	792	6	1/2	74.6	2672
SCS - 663MH	14,580	13,270	6	3	37.50	2544	5.02	24	22,176	591	6	1/3	65.5	2787
SCS - 664MH	15,420	14,070	6	4	37.50	3298	5.02	24	21,606	576	6	1/3	65.5	3061
SCS - 666MH	16,920		6	6	37.50	4804	5.02	24	20,628	550	6	1/3	65.5	3615
SCS - 663ML		16,210	6	3	37.50	2544	5.02	24	31,212	832	6	1/2	69.3	2787
SCS - 664ML		17,170	6	4	37.50	3298	5.02	24	30,030	801	6	1/2	69.3	3061
SCS - 663TH	17,280	15,710	6	3	43.75	2969	5.86	24	26,454	605	6	1/3	71.6	3130
SCS - 664TH	18,300	16,680	6	4	43.75	3847	5.86	24	25,818	590	6	1/3	71.6	3450
SCS - 666TH	20,160		6	6	43.75	5604	5.86	24	24,726	565	6	1/3	71.6	4096
SCS - 663TL		19,000	6	3	43.75	2969	5.86	24	36,726	839	6	3/4	79.3	3130
SCS - 664TL		20,230	6	4	43.75	3847	5.86	24	35,676	815	6	3/4	79.3	3450
SCS - 663XH	21,480	19,550	6	3	52.50	3562	6.99	24	33,642	641	6	1/2	72.5	3624
SCS - 664XH	22,860	20,810	6	4	52.50	4617	6.99	24	32,916	627	6	1/2	72.5	4007
SCS - 666XH	25,260		6	6	52.50	6725	6.99	24	31,614	602	6	1/2	72.5	4783
SCS - 683XH	25,620	23,290	8	3	52.50	4750	9.32	24	32,250	614	6	1/2	72.5	4299
SCS - 684XH	27,060	24,610	8	4	52.50	6156	9.32	24	31,392	598	6	1/2	72.5	4810
SCS - 686XH	29,100		8	6	52.50	8967	9.32	24	29,874	569	6	1/2	72.5	5845
SCS - 663XL		22,590	6	3	52.50	3562	6.99	28	43,272	824	6	3/4	79.5	3624
SCS - 664XL		24,020	6	4	52.50	4617	6.99	28	41,952	799	6	3/4	79.5	4007
SCS - 683XL		26,960	8	3	52.50	4750	9.32	28	40,800	777	6	3/4	79.5	4299
SCS - 684XL		28,460	8	4	52.50	6156	9.32	28	39,270	748	6	3/4	79.5	4810

- (1) Shaded units have higher face velocities and should only be used in applications with room temperature below 32°F. Use in higher temperature rooms may result in moisture carryover.
(2) Ratings are for liquid recirculated, controlled pressure and flooded R-717.
(3) Noise levels are based on fan manufacturer's data. Actual levels may vary due to installation environment.

SCS SERIES
UNIT COOLERS
PERFORMANCE DATA

MODEL ⁽¹⁾	COIL CAPACITY ⁽²⁾ (Btu/h per °FTD)		COIL PHYSICAL DATA					AIRSIDE DATA					Unit Weight (lbs)	
			No. of Rows	Fins (fpi)	FaceArea (ft ²)	Surface (ft ²)	Volume (ft ³)	FanDia (inch)	Air Flow		Motors			Sound ⁽³⁾ dB(A)
	Wet	Frosted							(cfm)	(fpm)	Qty	(hp)		
SCS - 763SH	14,280	13,020	6	3	36.46	2474	4.86	20	21,868	600	7	1/3	71.5	2843
SCS - 764SH	15,190	13,860	6	4	36.46	3206	4.86	20	21,448	588	7	1/3	71.5	3109
SCS - 766SH	16,800		6	6	36.46	4670	4.86	20	20,636	566	7	1/3	71.5	3648
SCS - 763SL		15,610	6	3	36.46	2474	4.86	20	29,757	816	7	1/2	75.0	2843
SCS - 764SL		16,600	6	4	36.46	3206	4.86	20	28,889	792	7	1/2	75.0	3109
SCS - 763MH	17,010	15,490	6	3	43.75	2969	5.83	24	25,872	591	7	1/3	65.9	3243
SCS - 764MH	17,990	16,410	6	4	43.75	3847	5.83	24	25,207	576	7	1/3	65.9	3563
SCS - 766MH	19,740		6	6	43.75	5604	5.83	24	24,066	550	7	1/3	65.9	4209
SCS - 763ML		18,920	6	3	43.75	2969	5.83	24	36,414	832	7	1/2	69.7	3243
SCS - 764ML		20,040	6	4	43.75	3847	5.83	24	35,035	801	7	1/2	69.7	3563
SCS - 763TH	20,160	18,330	6	3	51.04	3463	6.80	24	30,863	605	7	1/3	72.0	3644
SCS - 764TH	21,350	19,460	6	4	51.04	4488	6.80	24	30,121	590	7	1/3	72.0	4016
SCS - 766TH	23,520		6	6	51.04	6539	6.80	24	28,847	565	7	1/3	72.0	4771
SCS - 763TL		22,170	6	3	51.04	3463	6.80	24	42,847	839	7	3/4	79.7	3644
SCS - 764TL		23,610	6	4	51.04	4488	6.80	24	41,622	815	7	3/4	79.7	4016
SCS - 763XH	25,060	22,810	6	3	61.25	4156	8.12	24	39,249	641	7	1/2	72.9	4220
SCS - 764XH	26,670	24,280	6	4	61.25	5386	8.12	24	38,402	627	7	1/2	72.9	4667
SCS - 766XH	29,470		6	6	61.25	7846	8.12	24	36,883	602	7	1/2	72.9	5572
SCS - 783XH	29,890	27,180	8	3	61.25	5541	10.82	24	37,625	614	7	1/2	72.9	5008
SCS - 784XH	31,570	28,720	8	4	61.25	7181	10.82	24	36,624	598	7	1/2	72.9	5604
SCS - 786XH	33,950		8	6	61.25	10462	10.82	24	34,853	569	7	1/2	72.9	6811
SCS - 763XL		26,350	6	3	61.25	4156	8.12	28	50,484	824	7	3/4	79.9	4220
SCS - 764XL		28,020	6	4	61.25	5386	8.12	28	48,944	799	7	3/4	79.9	4667
SCS - 783XL		31,450	8	3	61.25	5541	10.82	28	47,600	777	7	3/4	79.9	5008
SCS - 784XL		33,200	8	4	61.25	7181	10.82	28	45,815	748	7	3/4	79.9	5604
SCS - 863SH	16,320	14,880	6	3	41.67	2827	5.53	20	24,992	600	8	1/3	71.8	3242
SCS - 864SH	17,360	15,840	6	4	41.67	3664	5.53	20	24,512	588	8	1/3	71.8	3546
SCS - 866SH	19,200		6	6	41.67	5338	5.53	20	23,584	566	8	1/3	71.8	4162
SCS - 863SL		17,840	6	3	41.67	2827	5.53	20	34,008	816	8	1/2	75.3	3242
SCS - 864SL		18,970	6	4	41.67	3664	5.53	20	33,016	792	8	1/2	75.3	3546
SCS - 863MH	19,440	17,700	6	3	50.00	3393	6.63	24	29,568	591	8	1/3	66.2	3700
SCS - 864MH	20,560	18,760	6	4	50.00	4397	6.63	24	28,808	576	8	1/3	66.2	4064
SCS - 866MH	22,560		6	6	50.00	6405	6.63	24	27,504	550	8	1/3	66.2	4804
SCS - 863ML		21,620	6	3	50.00	3393	6.63	24	41,616	832	8	1/2	70.0	3700
SCS - 864ML		22,900	6	4	50.00	4397	6.63	24	40,040	801	8	1/2	70.0	4064
SCS - 863TH	23,040	20,950	6	3	58.33	3958	7.74	24	35,272	605	8	1/3	72.3	4157
SCS - 864TH	24,400	22,240	6	4	58.33	5130	7.74	24	34,424	590	8	1/3	72.3	4583
SCS - 866TH	26,880		6	6	58.33	7473	7.74	24	32,968	565	8	1/3	72.3	5445
SCS - 863TL		25,340	6	3	58.33	3958	7.74	24	48,968	839	8	3/4	80.0	4157
SCS - 864TL		26,980	6	4	58.33	5130	7.74	24	47,568	815	8	3/4	80.0	4583

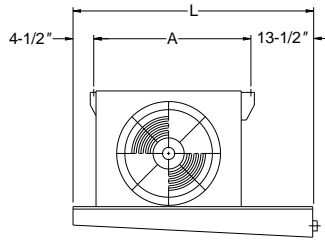
(1) Shaded units have higher face velocities and should only be used in applications with room temperature below 32°F. Use in higher temperature rooms may result in moisture carryover.

(2) Ratings are for liquid recirculated, controlled pressure and flooded R-717.

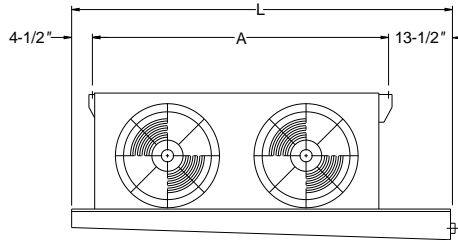
(3) Noise levels are based on fan manufacturer's data. Actual levels may vary due to installation environment.

**SCS SERIES
UNIT COOLERS
DIMENSIONAL DATA**

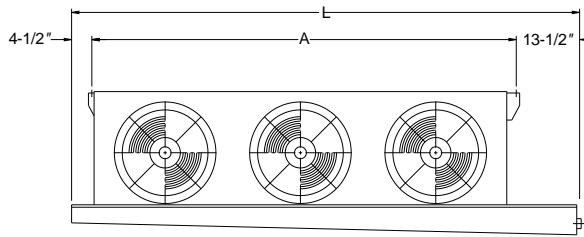
**SCS
1 Fan Series⁽⁴⁾**



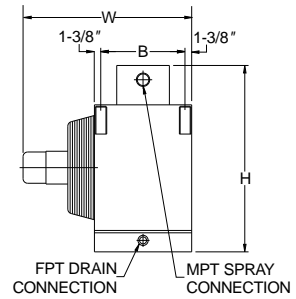
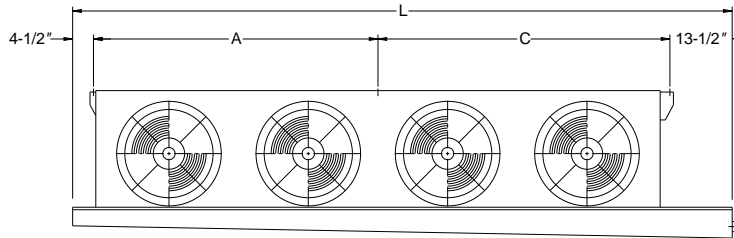
**SCS
2 Fan Series⁽⁴⁾**



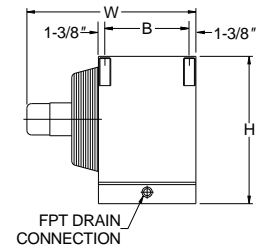
**SCS
3 Fan Series⁽⁴⁾**



**SCS
4 Fan Series⁽⁴⁾**



**End View
Water Defrost Unit**



**End View
Standard Unit**

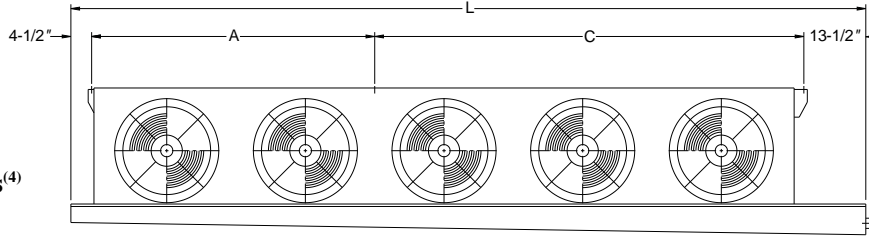
MODEL	STANDARD UNIT					HANGER CENTER ⁽³⁾				WATER DEFROST					
	Overall			Drain (inch)	Shipping Volume (ft ³)	A (inch)	B (inch)	C (inch)	D (inch)	Overall			Water Inlet (inch)	Drain (inch)	Shipping Volume (ft ³)
	L (inch)	W (inch)	H ⁽¹⁾ (inch)							L (inch)	W (inch)	H ⁽²⁾ (inch)			
SC - 16 S	52.0	37.0	32.0	1 1/2	36	34.00	18.25	NA	NA	52.00	37.00	40.50	1 1/2	2 1/2	45
SC - 16 M	52.0	37.0	37.0	1 1/2	41	34.00	18.25	NA	NA	52.00	37.00	45.50	1 1/2	2 1/2	51
SC - 16 T	52.0	37.0	42.0	1 1/2	47	34.00	18.25	NA	NA	52.00	37.00	50.50	1 1/2	2 1/2	56
SC - 16 X	58.0	41.0	42.0	1 1/2	58	40.00	22.25	NA	NA	58.00	41.00	50.50	1 1/2	2 1/2	70
SC - 18 X	58.0	41.0	42.0	1 1/2	58	40.00	22.25	NA	NA	58.00	41.00	50.50	1 1/2	2 1/2	70
SC - 26 S	82.0	37.0	32.0	1 1/2	56	64.00	18.25	NA	NA	82.00	37.00	40.50	1 1/2	2 1/2	71
SC - 26 M	82.0	37.0	37.0	1 1/2	65	64.00	18.25	NA	NA	82.00	37.00	45.50	1 1/2	2 1/2	80
SC - 26 T	82.0	37.0	42.0	1 1/2	74	64.00	18.25	NA	NA	82.00	37.00	50.50	1 1/2	2 1/2	89
SC - 26 X	94.0	41.0	42.0	1 1/2	94	76.00	22.25	NA	NA	94.00	41.00	50.50	1 1/2	2 1/2	113
SC - 28 X	94.0	41.0	42.0	1 1/2	94	76.00	22.25	NA	NA	94.00	41.00	50.50	1 1/2	2 1/2	113
SC - 36 S	112.0	37.0	32.0	1 1/2	77	94.00	18.25	NA	NA	112.00	37.00	40.50	1 1/2	2 1/2	97
SC - 36 M	112.0	37.0	37.0	1 1/2	89	94.00	18.25	NA	NA	112.00	37.00	45.50	1 1/2	2 1/2	109
SC - 36 T	112.0	37.0	42.0	1 1/2	101	94.00	18.25	NA	NA	112.00	37.00	50.50	1 1/2	2 1/2	121
SC - 36 X	130.0	41.0	42.0	1 1/2	130	112.00	22.25	NA	NA	130.00	41.00	50.50	2	2 1/2	156
SC - 38 X	130.0	41.0	42.0	1 1/2	130	112.00	22.25	NA	NA	130.00	41.00	50.50	2	2 1/2	156
SC - 46 S	142.0	37.0	32.0	1 1/2	97	61.25	18.25	62.75	NA	142.00	37.00	40.50	2	3	123
SC - 46 M	142.0	37.0	37.0	1 1/2	113	61.25	18.25	62.75	NA	142.00	37.00	45.50	2	3	138
SC - 46 T	142.0	37.0	42.0	1 1/2	128	61.25	18.25	62.75	NA	142.00	37.00	50.50	2	3	154
SC - 46 X	166.0	41.0	42.0	1 1/2	166	73.25	22.25	74.75	NA	166.00	41.00	50.50	2	3	199
SC - 48 X	166.0	41.0	42.0	1 1/2	166	73.25	22.25	74.75	NA	166.00	41.00	50.50	2	3	199

(1) Includes insulated pan with hot gas pan coil.
(2) Includes insulated pan.

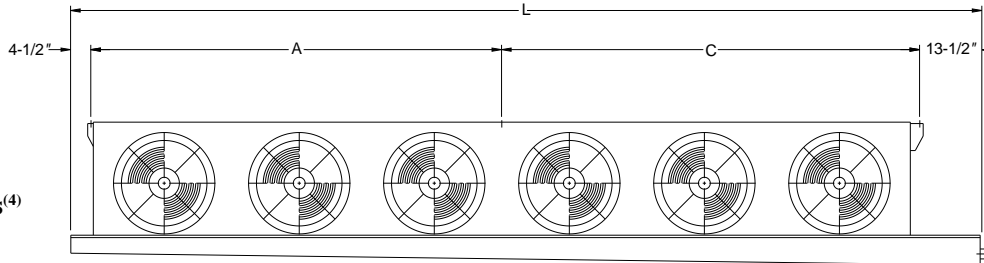
(3) Mounting locations: 1—3 fan series have four. 4—8 fan series have six. Hanger holes are 5/8" dia.
(4) Standard unit shown.

SCS SERIES
UNIT COOLERS
DIMENSIONAL DATA

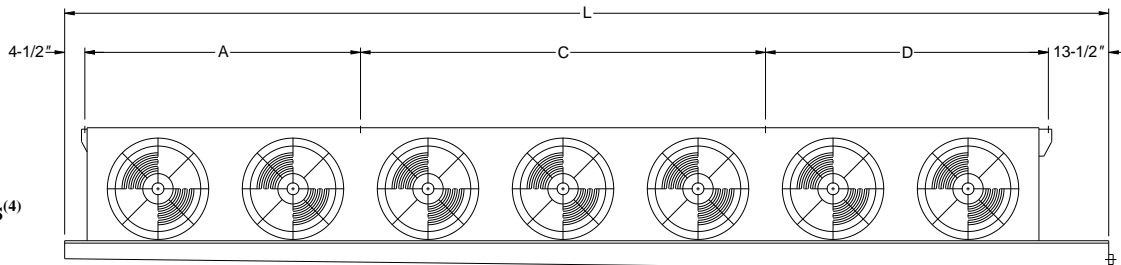
SCS
5 Fan Series⁽⁴⁾



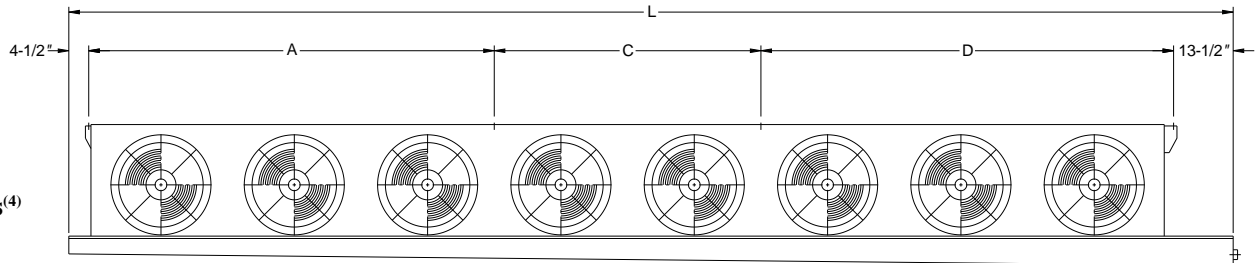
SCS
6 Fan Series⁽⁴⁾



SCS
7 Fan Series⁽⁴⁾



SCS
8 Fan Series⁽⁴⁾



MODEL	STANDARD UNIT					HANGER CENTER ⁽³⁾				WATER DEFROST					
	Overall			Drain (inch)	Shipping Volume (ft ³)	A (inch)	B (inch)	C (inch)	D (inch)	Overall			Water Inlet (inch)	Drain (inch)	Shipping Volume (ft ³)
	L (inch)	W (inch)	H ⁽¹⁾ (inch)							L (inch)	W (inch)	H ⁽²⁾ (inch)			
SC - 56 S	172.0	37.0	32.0	2	118	61.25	18.25	92.75	NA	172.00	37.00	40.50	2	3	149
SC - 56 M	172.0	37.0	37.0	2	136	61.25	18.25	92.75	NA	172.00	37.00	45.50	2	3	168
SC - 56 T	172.0	37.0	42.0	2	155	61.25	18.25	92.75	NA	172.00	37.00	50.50	2	3	186
SC - 56 X	202.0	41.0	42.0	2	202	73.25	22.25	110.75	NA	202.00	41.00	50.50	2	3	242
SC - 58 X	202.0	41.0	42.0	2	202	73.25	22.25	110.75	NA	202.00	41.00	50.50	2	3	242
SC - 66 S	202.0	37.0	32.5	2	141	91.25	18.25	92.75	NA	202.00	37.00	41.00	2	3	177
SC - 66 M	202.0	37.0	37.5	2	162	91.25	18.25	92.75	NA	202.00	37.00	46.00	2	3	199
SC - 66 T	202.0	37.0	42.5	2	184	91.25	18.25	92.75	NA	202.00	37.00	51.00	2	3	221
SC - 66 X	238.0	41.0	42.5	2	240	109.25	22.25	110.75	NA	238.00	41.00	51.00	2 1/2	4	288
SC - 68 X	238.0	41.0	42.5	2	240	109.25	22.25	110.75	NA	238.00	41.00	51.00	2 1/2	4	288
SC - 76 S	232.0	37.0	33.0	2	164	61.25	18.25	90.00	62.75	232.00	37.00	41.50	2 1/2	4	206
SC - 76 M	232.0	37.0	38.0	2	189	61.25	18.25	90.00	62.75	232.00	37.00	46.50	2 1/2	4	231
SC - 76 T	232.0	37.0	43.0	2	214	61.25	18.25	90.00	62.75	232.00	37.00	51.50	2 1/2	4	256
SC - 76 X	274.0	41.0	43.0	2	280	73.25	22.25	108.00	74.75	274.00	41.00	51.50	2 1/2	4	335
SC - 78 X	274.0	41.0	43.0	2	280	73.25	22.25	108.00	74.75	274.00	41.00	51.50	2 1/2	4	335
SC - 86 S	262.0	37.0	33.5	2	188	91.25	18.25	60.00	92.75	262.00	37.00	42.00	2 1/2	4	236
SC - 86 M	262.0	37.0	38.5	2	216	91.25	18.25	60.00	92.75	262.00	37.00	47.00	2 1/2	4	264
SC - 86 T	262.0	37.0	43.5	2	244	91.25	18.25	60.00	92.75	262.00	37.00	52.00	2 1/2	4	292

(1) Includes insulated pan with hot gas pan coil.
(2) Includes insulated pan.

(3) Mounting locations: 1—3 fan series have four. 4—8 fan series have six. Hanger holes are 5/8" dia.
(4) Standard unit shown.

York Refrigeration
3820 Highway 26 • Polo, IL USA 61064
Phone: 815-946-2351 • Fax: 815-946-3409

York Refrigeration
13711 Freeway Drive • Santa Fe Springs, CA USA 90670
Phone: 562-921-4310 • Fax: 562-921-6412