

STC series

INDUSTRIAL EVAPORATOR

engineering data
and specifications



EFFICIENT COIL DESIGN

Tubes are 3/4 inch OD staggered in the direction of air flow.

Turbo-spacers located between tubes provide nominal three, four or six fins per inch spacing and improves fin efficiency by turbulating air flow.

MATERIALS OF COIL CONSTRUCTION

- Type 304L stainless steel tubes and aluminum fins. Tubing meets the requirements of ASM B31.5 Refrigerant Piping Code.
- Aluminum tubes and fins.
- Copper tubes and aluminum fins.
- Carbon steel tubes and fins, hot dip galvanized after fabrication.
- Each coil is tested under water with 350 psig air.
- For maximum efficiency each coil is tailor made for its intended duty with the following features:
 - Recirculated coils have graduated liquid feed orifices to balance static head and reduce hot gas blowby during defrost.
 - Direct expansion coils are circuited to have appropriate pressure drop and maintain refrigerant velocity for oil return.
 - Flooded coils are circuited to minimize internal loses while maintaining minimum surge drum operating level.
 - Water, brine or glycol systems are circuited to minimize fluid pressure drop and maintain a desired velocity.
- Coil variations available include:
 - Fully coated coil with Epoxy Electro-Fin or Heresite (aluminum fin coils only). Corrosion resistant gold epoxy pre-coated aluminum fin.
 - Stainless steel and aluminum tube coils provided with carbon steel connection stubs.
 - All coils shipped with a dry nitrogen charge.

DRAIN PAN CONSTRUCTION

- Standard drain pan is aluminum for Air, HGC, ED, and Water defrosts units.
- Optional CFC Free insulated, mill galvanized cover available for Air, HGC, and ED units.
- Hot gas drain pan is stainless steel with tube style configuration. Includes an insulated, mill galvanized cover.
- EDL units use an aluminum drain pan with an insulated, mill galvanized cover..

HEAVY DUTY HOUSING CONSTRUCTION

- Housings are mill galvanized steel for long life and maximum strength.
- Features include:
 - Deep spun orifices ensure optimum fan performance.
 - Individually compartmented fans prevent reverse fan rotation.
 - Solid base motor mount to secure heavy, higher horsepower, higher speed motors.
 - Header and return bend ends left open for ease of unit installation and operation observation.

EFFICIENT FANS

- All fans are selected for maximum efficiency with non-overloading performance.
- Selections are given for 870 and 1160 RPM operation.
- Fan guards are PVC coated for long life.

*ElectroFin® is a registered trademark of Modine, Racine, WI

**Heresite® is a registered trademark of Hersite Protective Coatings, LLC, Manitowoc, WI

HEAVY DUTY MOTORS

- Standard motors are TEFC lubricated for -40° F ambient operating at 870 or 1160 RPM.
- 1/3 hp - 3/4 hp 870 RPM includes ATO. 1/3 hp - 1 hp 1160 RPM can include thermal overload in motor.
- All motors are VFD rated.
- All motors wired to terminal block(s) in a common NEMA 4 junction box on the opposite end as the refrigerant connections. ATO motors will be wired to a single terminal block while non-ATO motors are wired to individual terminal blocks.

AIR DEFROST

above 36°F room temperature

Units should be selected at low face velocity using the ratings on the capacity data tables to prevent moisture carryover.

- Drain pans are aluminum for long life and corrosion protection.
- CFC-free closed cell insulation and mill galvanized steel covers are optional

HOT GAS DEFROST UNIT

below 32°F room temperature

- Tube style stainless steel drain pans allow for fast hot gas defrost.
- Drain pans include CFC-free closed cell insulation with mill galvanized steel covers.
- Interconnecting piping and check valve between the drain pans and coils are factory installed.

HOT GAS DEFROST COIL ONLY

above 33°F room temperature

- Hot gas defrost for the coil with unheated aluminum drain pans.
- Optional CFC-free closed cell insulation with mill galvanized steel covers are available.

WATER DEFROST

to -20°F room temperature

- Water distribution pans are mounted above each coil section providing full coverage of the entire finned surface. Inlet water temperature should not exceed 60°F. Water pans are removable from the coil side of the unit. Overall height is increased 5".
- Drain pans are aluminum for long life and furnished with oversized horizontal drain connections.

FAN DISCHARGE OPTIONS

- Blow through, horizontal discharge is standard.
- Draw through, vertical down discharge is available for unique cooling applications.

MOTOR CONTROL OPTION

- Individual motor non-fused disconnect or manual motor starters, factory wired, can be provided as a local disconnect means.

SPECIAL MOTORS

- Wash-down duty motors.
- Stainless steel exterior finished motors.
- EC motors for certain size hp and RPM.

FAN CABINET OPTIONS

- Stainless steel construction.
- Stainless steel fan guard.

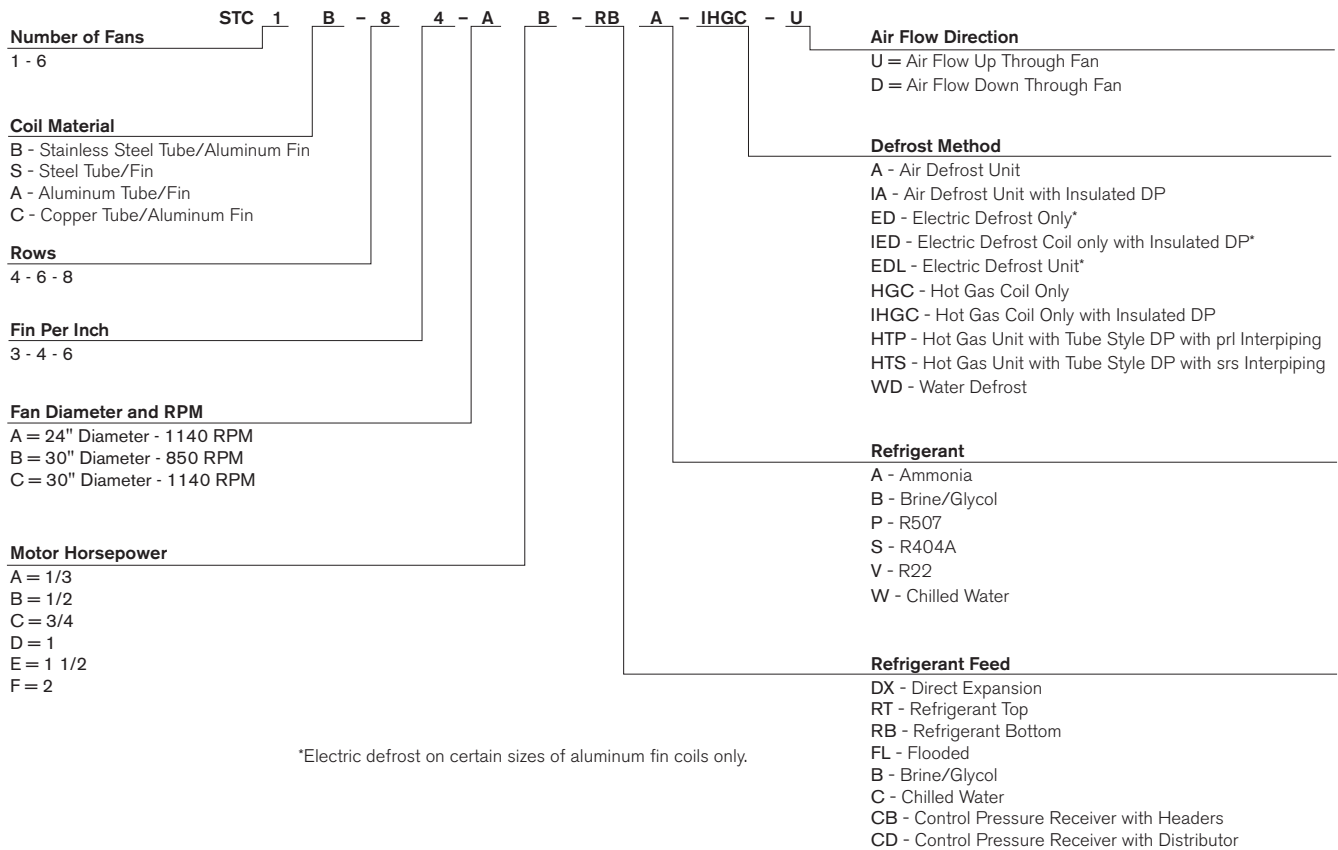
CONTROL PANEL OPTIONS

- A factory mounted control panel with fused disconnect and fan motor contactor or starters all factory wired is available. This allows for reduced field installation costs since only one electrical connection is required per unit. Panels carry a UL stamp for industrial control panels.
- The standard enclosure is rated NEMA 4.
- Multiple motors can be wired to run together or individually.
- Transformer to provide contactor voltage, controlled by others. Transformer can be eliminated, contactor voltage then supplied by others.

DRAIN PAN OPTIONS

- Optional construction with stainless steel for the pans and/or insulated pan covers.
- Electric heating available on the interior of the drain pan covers. (115/1/60 or 230/1/60)

STC Model Key



*Electric defrost on certain sizes of aluminum fin coils only.

External Motor Protection is required in all three phases. Overloads should be sized with allowance for 1.15 service factor and cold air density. Multiply nameplate FLA by 1.15" 0°F, 1.1" -10° F and 1.2" -20°F spaces to correct for air density. A motor's ability to dissipate heat in cold ambients increases at a faster rate than the resultant increase in horsepower.

Capacity Corrections Factors
Multiply Rated Capacity by Factors

Rating Variation	Rows Deep			Factory Corrects Rating for
	4	6	8	
Wet Coil to 32° F SST	1.73	1.12	1.10	3,4 or 6 FPI
Ammonia TEV to 0°F SST	0.75	0.83	0.84	3,4 or 6 FPI
Halocarbon TEV to -20°F SST	0.65	0.73	0.76	3,4 or 6 FPI
Halocarbon TEV to -30°F SST	0.59	0.66	0.68	3 or 4 FPI
Halocarbon TEV to -40°F SST	0.52	0.58	0.60	3 or 4 FPI
Steel HDG Recirculation/FL	0.87	0.88	0.90	3,4 or 6 FPI

Motor AMPS

Horsepower	RPM	230/3/360	460/3/60	575/3/60
.33	1160	1.8	0.9	0.72
.50	850	4.0	2.0	1.30
.50	1160	2.4	1.2	1.00
.75	850	4.2	2.1	1.60
.75	1160	3.0	1.5	1.20
1.0	850	4.6	2.3	1.78
1.0	1160	3.6	1.8	1.40
1.5	850	6.0	3.0	2.40
1.5	1160	4.8	2.4	1.90
2.0	1160	7.0	3.5	2.80

REFRIGERANT FEEDS

DX— Direct expansion employs a distributor and capillaries to feed each circuit. TEV must be externally equalized. Electronic TEV feeds are recommended below 0° F SST or with TD selections less than 12° F. Remove discharge tubes from ammonia TEV. The distributor is orificed. Sub-cooled liquid must be specified as circuits may be reduced for rated performance.

DX-HG—Direct expansion hot gas defrost models utilize a side ported distributor, a bypass tee between TEV and distributor, or bypass header for halocarbons. Ammonia requires a bypass header.

Recirculated Liquid Overfeed Systems usually supply liquid refrigerant at SST. Warmer liquid feeds must be specified. Liquid ammonia must be no more than 30° F above SST.

RT—Recirculated top feed is recommended for air, water, or electric defrost. Refrigerant and oil flows downhill to the suction header.

RB—Recirculated bottom feed is recommended for hot gas defrost. Hot gas enters the suction thru customer's connection. Condensate and oil flow downhill, back-flowing the liquid feed orifices which restrict gas blow-by. Condensate is relieved thru customer's tee located between coil and balancing valve. Defrost condensate relief devices must be located below the liquid connection.

FL—Flooded feeds utilize surge drums with liquid level control. When close coupled, liquid level in drum should be four inches or more above coil. Gas/liquid separation velocities are based on condenser pressure liquid feed. Smaller vessels can be used when liquid is sub-cooled and when hot gas defrost condensate is relieved to other than the drum. Contact factory for surge drum selections.

AIR THROW

For 870 rpm motors, air throw is 40 to 50 ft from sides. For 1160 rpm motors, air throw is 60 to 70 ft from sides. When throwing down long aisles, air throw will increase substantially.

UNIT LOCATION

Unit must be located to provide good air circulation to all areas. Space around the unit should allow for free airflow into and out of the unit. Light fixtures, shelving, ceiling structures, and product boxes must be located so that they do not block the air discharge from the unit. On all units a space should be provided for the possible future replacement of the electric defrost heaters if heaters have been furnished.

PIPING

Weight of piping, controls, etc. should be carried by proper pipe supports. Steel suction lines on TEV fed ammonia units should be downsized at the unit and then trapped. The undersized riser should enter the top of a suction.

HOT GAS DEFROST

During hot gas defrost, an evaporator coil can condense at 3 to 4 times its rated cooling capacity. Liquid condensate must be allowed to leave the coil or defrost will be retarded by lack of flow. Defrost condensate relief lines must be connected to the bottom of RT or DX suction lines or traps and to the bottom of RB or FLA liquid lines. Do not back-flow condensate thru hand expansion valves as the orifice will restrict defrost. Defrost relief regulators must be located below the liquid or suction connections. Do not lift refrigerant condensate because defrost of the bottom of the coil will be retarded. When the defrost relief is piped in a fourth pipe to the system intercooler or controlled pressure receiver, the defrost relief regulator may require oversizing because its pressure differential is lower. With multiple evaporators, each is provided with a defrost relief check valve and the regulator is in the common header. The regulator and the common defrost relief header must be sized for the maximum number of units being defrosted at one time.

DRAIN LINES

Each unit must have a trap (heated when necessary) in the water drain line from each pan.

Sound Ratings (dB A Scale) measured 6'-0 from fans

Number of Fans	Fan Diameter 24"		Fan Diameter 30"	
	1160 RPM	870 RPM	870 RPM	1160 RPM
1	68-72	72-75	72-75	80-82
2	71-74	73-77	73-77	83-85
3	73-76	75-77	75-77	86-88
4	74-77	77-81	77-81	88-91
5	75-78	78-82	78-82	90-92
6	77-80	80-83	80-83	91-93

24" Diameter 1140 RPM – One Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC1-43-AA	1921	1715	1/3	4	3	7.1	1.3	340	3900	551	580
STC1-63-AA	2618	2338	1/3	6	3	7.1	1.5	510	3700	522	650
STC1-83-AA	3099	2817	1/3	8	3	7.1	1.8	680	3550	501	710
STC1-44-AA	2432	2171	1/3	4	4	7.1	1.3	420	3850	544	600
STC1-64-AA	3096	2764	1/3	6	4	7.1	1.5	631	3650	515	670
STC1-84-AA	3393	3085	1/3	8	4	7.1	1.8	841	3400	480	730
STC1-46-AA	2797		1/3	4	6	7.1	1.3	587	3750	529	620
STC1-66-AA	3561		1/3	6	6	7.1	1.5	881	3500	494	700
STC1-86-AA	3902		1/3	8	6	7.1	1.8	1174	3250	459	790
STC1-43-AB		2091	1/2	4	3	7.1	1.3	340	4840	683	580
STC1-63-AB		2684	1/2	6	3	7.1	1.5	510	4550	642	650
STC1-83-AB	3412	3101	1/2	8	3	7.1	1.8	680	4100	579	710
STC1-44-AB		2438	1/2	4	4	7.1	1.3	420	4600	649	600
STC1-64-AB	3319	2964	1/2	6	4	7.1	1.5	631	4250	600	670
STC1-84-AB	3784	3440	1/2	8	4	7.1	1.8	841	4000	565	730
STC1-66-AB	3817		1/2	6	6	7.1	1.5	881	4150	586	700
STC1-86-AB	4352		1/2	8	6	7.1	1.8	1174	3750	529	790
STC1-43-AC		2130	3/4	4	3	7.1	1.3	340	5300	748	580
STC1-63-AC		2738	3/4	6	3	7.1	1.5	510	4900	692	650
STC1-83-AC		3301	3/4	8	3	7.1	1.8	680	4600	649	710
STC1-44-AC		2594	3/4	4	4	7.1	1.3	420	5200	734	600
STC1-64-AC		3132	3/4	6	4	7.1	1.5	631	4800	678	670
STC1-84-AC		3659	3/4	8	4	7.1	1.8	841	4450	628	730
STC1-43-AD		2284	1	4	3	7.1	1.3	340	5850	826	580
STC1-63-AD		2865	1	6	3	7.1	1.5	510	5350	755	650
STC1-83-AD		3432	1	8	3	7.1	1.8	680	4950	699	710
STC1-44-AD		2763	1	4	4	7.1	1.3	420	5700	805	600
STC1-64-AD		3267	1	6	4	7.1	1.5	631	5200	734	670
STC1-84-AD		3816	1	8	4	7.1	1.8	841	4800	678	730
STC1-63-AE		3043	1 1/2	6	3	7.1	1.5	510	6000	847	650
STC1-83-AE		3639	1 1/2	8	3	7.1	1.8	680	5500	777	710
STC1-44-AE		2982	1 1/2	4	4	7.1	1.3	420	6400	904	600
STC1-64-AE		3476	1 1/2	6	4	7.1	1.5	631	5800	819	670
STC1-84-AE		3994	1 1/2	8	4	7.1	1.8	841	5200	734	730

24" Diameter 1140 RPM – Two Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC2-43-AA	3841	3429	2 x 1/3	4	3	14.2	1.7	680	7800	551	1030
STC2-63-AA	5236	4676	2 x 1/3	6	3	14.2	2.2	1020	7400	522	1150
STC2-83-AA	6198	5634	2 x 1/3	8	3	14.2	2.6	1360	7100	501	1270
STC2-44-AA	4865	4342	2 x 1/3	4	4	14.2	1.7	840	7700	544	1060
STC2-64-AA	6192	5528	2 x 1/3	6	4	14.2	2.2	1262	7300	515	1190
STC2-84-AA	6787	6169	2 x 1/3	8	4	14.2	2.6	1682	6800	480	1320
STC2-46-AA	5594		2 x 1/3	4	6	14.2	1.7	1174	7500	529	1110
STC2-66-AA	7121		2 x 1/3	6	6	14.2	2.2	1762	7000	494	1260
STC2-86-AA	7805		2 x 1/3	8	6	14.2	2.6	2348	6500	459	1420
STC2-43-AB		4181	2 x 1/2	4	3	14.2	1.7	680	9680	683	1030
STC2-63-AB		5368	2 x 1/2	6	3	14.2	2.2	1020	9100	642	1150
STC2-83-AB	6824	6203	2 x 1/2	8	3	14.2	2.6	1360	8200	579	1270
STC2-44-AB		4876	2 x 1/2	4	4	14.2	1.7	840	9200	649	1060
STC2-64-AB	6638	5928	2 x 1/2	6	4	14.2	2.2	1262	8500	600	1190
STC2-84-AB	7568	6880	2 x 1/2	8	4	14.2	2.6	1682	8000	565	1320
STC2-66-AB	7633		2 x 1/2	6	6	14.2	2.2	1762	8300	586	1260
STC2-86-AB	8703		2 x 1/2	8	6	14.2	2.6	2348	7500	529	1420
STC2-43-AC		4260	2 x 3/4	4	3	14.2	1.7	680	10600	748	1030
STC2-63-AC		5476	2 x 3/4	6	3	14.2	2.2	1020	9800	692	1150
STC2-83-AC		6602	2 x 3/4	8	3	14.2	2.6	1360	9200	649	1270
STC2-44-AC		5189	2 x 3/4	4	4	14.2	1.7	840	10400	734	1060
STC2-64-AC		6265	2 x 3/4	6	4	14.2	2.2	1262	9600	678	1190
STC2-84-AC		7317	2 x 3/4	8	4	14.2	2.6	1682	8900	628	1320
STC2-43-AD		4568	2 x 1	4	3	14.2	1.7	680	11700	826	1030
STC2-63-AD		5729	2 x 1	6	3	14.2	2.2	1020	10700	755	1150
STC2-83-AD		6864	2 x 1	8	3	14.2	2.6	1360	9900	699	1270
STC2-44-AD		5527	2 x 1	4	4	14.2	1.7	840	11400	805	1060
STC2-64-AD		6534	2 x 1	6	4	14.2	2.2	1262	10400	734	1190
STC2-84-AD		7632	2 x 1	8	4	14.2	2.6	1682	9600	678	1320
STC2-63-AE		6086	2 x 1 1/2	6	3	14.2	2.2	1020	12000	847	1150
STC2-83-AE		7277	2 x 1 1/2	8	3	14.2	2.6	1360	11000	777	1270
STC2-44-AE		5964	2 x 1 1/2	4	4	14.2	1.7	840	12800	904	1060
STC2-64-AE		6952	2 x 1 1/2	6	4	14.2	2.2	1262	11600	819	1190
STC2-84-AE		7988	2 x 1 1/2	8	4	14.2	2.6	1682	10400	734	1320

24" Diameter 1140 RPM – Three Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC3-43-AA	5762	5144	3 x 1/3	4	3	21.2	2.1	1020	11700	551	1480
STC3-63-AA	7855	7074	3 x 1/3	6	3	21.2	2.8	1530	11100	522	1660
STC3-83-AA	9297	8452	3 x 1/3	8	3	21.2	3.5	2040	10650	507	1830
STC3-44-AA	7297	6514	3 x 1/3	4	4	21.2	2.1	1260	11550	544	1520
STC3-64-AA	9289	8292	3 x 1/3	6	4	21.2	2.8	1893	10950	515	1710
STC3-84-AA	10180	9254	3 x 1/3	8	4	21.2	3.5	2523	10200	480	1910
STC3-46-AA	8391		3 x 1/3	4	6	21.2	2.1	1761	11250	529	1600
STC3-66-AA	10682		3 x 1/3	6	6	21.2	2.8	2643	10500	494	1820
STC3-86-AA	11707		3 x 1/3	8	6	21.2	3.5	3522	9750	459	2050
STC3-43-AB		6272	3 x 1/2	4	3	21.2	2.1	1020	14520	683	1480
STC3-63-AB		8051	3 x 1/2	6	3	21.2	2.8	1530	13650	642	1660
STC3-83-AB	10236	9304	3 x 1/2	8	3	21.2	3.5	2040	12300	579	1830
STC3-44-AB		7314	3 x 1/2	4	4	21.2	2.1	1260	13800	649	1520
STC3-64-AB	9956	8892	3 x 1/2	6	4	21.2	2.8	1893	12750	600	1710
STC3-84-AB	11352	10320	3 x 1/2	8	4	21.2	3.5	2523	12000	565	1910
STC3-66-AB	11450		3 x 1/2	6	6	21.2	2.8	2643	12450	586	1820
STC3-86-AB	13055		3 x 1/2	8	6	21.2	3.5	3522	11250	529	2050
STC3-43-AC		6389	3 x 3/4	4	3	21.2	2.1	1020	15900	748	1480
STC3-63-AC		8214	3 x 3/4	6	3	21.2	2.8	1530	14700	692	1660
STC3-83-AC		9903	3 x 3/4	8	3	21.2	3.5	2040	103800	649	1830
STC3-44-AC		7783	3 x 3/4	4	4	21.2	2.1	1260	15600	734	1520
STC3-64-AC		9397	3 x 3/4	6	4	21.2	2.8	1893	14400	678	1710
STC3-84-AC		10976	3 x 3/4	8	4	21.2	3.5	2523	13350	628	1910
STC3-43-AD		6852	3 x 1	4	3	21.2	2.1	1020	17550	826	1480
STC3-63-AD		8594	3 x 1	6	3	21.2	2.8	1530	16050	755	1660
STC3-83-AD		10296	3 x 1	8	3	21.2	3.5	2040	14850	699	1830
STC3-44-AD		8290	3 x 1	4	4	21.2	2.1	1260	17100	805	1520
STC3-64-AD		9800	3 x 1	6	4	21.2	2.8	1893	15600	734	1710
STC3-84-AD		11449	3 x 1	8	4	21.2	3.5	2523	14400	678	1910
STC3-63-AE		9129	3 x 1 1/2	6	3	21.2	2.8	1530	18000	847	1660
STC3-83-AE		10916	3 x 1 1/2	8	3	21.2	3.5	2040	16500	777	1830
STC3-44-AE		8946	3 x 1 1/2	4	4	21.2	2.1	1260	19200	904	1520
STC3-64-AE		10428	3 x 1 1/2	6	4	21.2	2.8	1893	17400	819	1710
STC3-84-AE		11981	3 x 1 1/2	8	4	21.2	3.5	2523	15600	734	1910

24" Diameter 1140 RPM – Four Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC4-43-AA	7682	6859	4 x 1/3	4	3	28.3	2.6	1360	15600	551	1930
STC4-63-AA	10473	9352	4 x 1/3	6	3	28.3	3.4	2040	14800	522	2160
STC4-83-AA	12396	11269	4 x 1/3	8	3	28.3	4.3	2720	14200	501	2390
STC4-44-AA	9729	8685	4 x 1/3	4	4	28.3	2.6	1680	15400	544	1980
STC4-64-AA	12385	11056	4 x 1/3	6	4	28.3	3.4	2524	14600	515	2230
STC4-84-AA	13573	12339	4 x 1/3	8	4	28.3	4.3	3364	13600	480	2480
STC4-46-AA	11188		4 x 1/3	4	6	28.3	2.6	2348	15000	529	2080
STC4-66-AA	14243		4 x 1/3	6	6	28.3	3.4	3524	14000	494	2380
STC4-86-AA	15609		4 x 1/3	8	6	28.3	4.3	4696	13000	459	2680
STC4-43-AB		8363	4 x 1/2	4	3	28.3	2.6	1360	19360	683	1930
STC4-63-AB		10735	4 x 1/2	6	3	28.3	3.4	2040	18200	642	2160
STC4-83-AB	13649	12405	4 x 1/2	8	3	28.3	4.3	2720	16400	579	2390
STC4-44-AB		9752	4 x 1/2	4	4	28.3	2.6	1680	18400	649	1980
STC4-64-AB	13275	11856	4 x 1/2	6	4	28.3	3.4	2524	17000	600	2230
STC4-84-AB	15136	13760	4 x 1/2	8	4	28.3	4.3	3364	16000	565	2480
STC4-66-AB	15267		4 x 1/2	6	6	28.3	3.4	3524	16600	586	2380
STC4-86-AB	17406		4 x 1/2	8	6	28.3	4.3	4696	15000	529	2680
STC4-43-AC		8519	4 x 3/4	4	3	28.3	2.6	1360	21200	748	1930
STC4-63-AC		10952	4 x 3/4	6	3	28.3	3.4	2040	19600	692	2160
STC4-83-AC		13205	4 x 3/4	8	3	28.3	4.3	2720	18400	649	2390
STC4-44-AC		10378	4 x 3/4	4	4	28.3	2.6	1680	20800	734	1980
STC4-64-AC		12529	4 x 3/4	6	4	28.3	3.4	2524	19200	678	2230
STC4-84-AC		14634	4 x 3/4	8	4	28.3	4.3	3364	17800	628	2480
STC4-43-AD		9136	4 x 1	4	3	28.3	2.6	1360	23400	826	1930
STC4-63-AD		11458	4 x 1	6	3	28.3	3.4	2040	21400	755	2160
STC4-83-AD		13728	4 x 1	8	3	28.3	4.3	2720	19800	699	2390
STC4-44-AD		11054	4 x 1	4	4	28.3	2.6	1680	22800	805	1980
STC4-64-AD		13067	4 x 1	6	4	28.3	3.4	2524	20800	734	2230
STC4-84-AD		15265	4 x 1	8	4	28.3	4.3	3364	19200	678	2480
STC4-63-AE		12172	4 x 1 1/2	6	3	28.3	3.4	2040	24000	847	2160
STC4-83-AE		14554	4 x 1 1/2	8	3	28.3	4.3	2720	22000	777	2390
STC4-44-AE		11928	4 x 1 1/2	4	4	28.3	2.6	1680	25600	904	1980
STC4-64-AE		13904	4 x 1 1/2	6	4	28.3	3.4	2524	23200	819	2230
STC4-84-AE		15975	4 x 1 1/2	8	4	28.3	4.3	3364	20800	734	2480

24" Diameter 1140 RPM – Five Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC5-43-AA	9603	8573	5 x 1/3	4	3	35.4	3.0	1700	19500	551	2370
STC5-63-AA	13091	11690	5 x 1/3	6	3	35.4	4.1	2550	18500	522	2670
STC5-83-AA	15496	14086	5 x 1/3	8	3	35.4	5.1	3400	17750	501	2950
STC5-44-AA	12161	10856	5 x 1/3	4	4	35.4	3.0	2100	19250	544	2440
STC5-64-AA	15481	13820	5 x 1/3	6	4	35.4	4.1	3155	18250	515	2750
STC5-84-AA	16966	15423	5 x 1/3	8	4	35.4	5.1	4205	17000	480	3070
STC5-46-AA	13985		5 x 1/3	4	6	35.4	3.0	2935	18750	529	2570
STC5-66-AA	17803		5 x 1/3	6	6	35.4	4.1	4405	17500	494	2940
STC5-86-AA	19511		5 x 1/3	8	6	35.4	5.1	5870	16250	459	3310
STC5-43-AB		10454	5 x 1/2	4	3	35.4	3.0	1700	24200	683	2370
STC5-63-AB		13419	5 x 1/2	6	3	35.4	4.1	2550	22750	642	2670
STC5-83-AB	17061	15507	5 x 1/2	8	3	35.4	5.1	3400	20500	579	2950
STC5-44-AB		12190	5 x 1/2	4	4	35.4	3.0	2100	23000	649	2440
STC5-64-AB	16594	14820	5 x 1/2	6	4	35.4	4.1	3155	21250	600	2750
STC5-84-AB	18920	17199	5 x 1/2	8	4	35.4	5.1	4205	20000	565	3070
STC5-66-AB	19083		5 x 1/2	6	6	35.4	4.1	4405	20750	586	2940
STC5-86-AB	21758		5 x 1/2	8	6	35.4	5.1	5870	18750	529	3310
STC5-43-AC		10649	5 x 3/4	4	3	35.4	3.0	1700	26500	748	2370
STC5-63-AC		13690	5 x 3/4	6	3	35.4	4.1	2550	24500	692	2670
STC5-83-AC		16506	5 x 3/4	8	3	35.4	5.1	3400	23000	649	2950
STC5-44-AC		12972	5 x 3/4	4	4	35.4	3.0	2100	26000	734	2440
STC5-64-AC		15662	5 x 3/4	6	4	35.4	4.1	3155	24000	678	2750
STC5-84-AC		18293	5 x 3/4	8	4	35.4	5.1	4205	22250	628	3070
STC5-43-AD		11420	5 x 1	4	3	35.4	3.0	1700	29250	826	2370
STC5-63-AD		14323	5 x 1	6	3	35.4	4.1	2550	26750	755	2670
STC5-83-AD		17161	5 x 1	8	3	35.4	5.1	3400	24750	699	2950
STC5-44-AD		13817	5 x 1	4	4	35.4	3.0	2100	28500	805	2440
STC5-64-AD		16334	5 x 1	6	4	35.4	4.1	3155	26000	734	2750
STC5-84-AD		19081	5 x 1	8	4	35.4	5.1	4205	24000	678	3070
STC5-63-AE		15215	5 x 1 1/2	6	3	35.4	4.1	2550	30000	847	2670
STC5-83-AE		18193	5 x 1 1/2	8	3	35.4	5.1	3400	27500	777	2950
STC5-44-AE		14910	5 x 1 1/2	4	4	35.4	3.0	2100	32000	904	2440
STC5-64-AE		17379	5 x 1 1/2	6	4	35.4	4.1	3155	29000	819	2750
STC5-84-AE		19969	5 x 1 1/2	8	4	35.4	5.1	4205	26000	734	3070

24" Diameter 1140 RPM – Six Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC6-43-AA	11523	10288	6 x 1/3	4	3	42.5	3.4	2040	23400	551	2820
STC6-63-AA	15709	14028	6 x 1/3	6	3	42.5	4.7	3060	22200	522	3170
STC6-83-AA	78595	16903	6 x 1/3	8	3	42.5	6.0	4080	27300	501	3570
STC6-44-AA	14594	13027	6 x 1/3	4	4	42.5	3.4	2520	23100	544	2900
STC6-64-AA	18577	16584	6 x 1/3	6	4	42.5	4.7	3786	21900	575	3270
STC6-84-AA	20360	18508	6 x 1/3	8	4	42.5	6.0	5046	20400	480	3660
STC6-46-AA	16783		6 x 1/3	4	6	42.5	3.4	3522	22500	529	3060
STC6-66-AA	27364		6 x 1/3	6	6	42.5	4.7	5286	21000	494	3500
STC6-86-AA	23414		6 x 1/3	8	6	42.5	6.0	7044	19500	459	3970
STC6-43-AB		12544	6 x 1/2	4	3	42.5	3.4	2040	29040	683	2820
STC6-63-AB		16103	6 x 1/2	6	3	42.5	4.7	3060	27300	642	3170
STC6-83-AB	20473	18608	6 x 1/2	8	3	42.5	6.0	4080	24600	579	3570
STC6-44-AB		14628	6 x 1/2	4	4	42.5	3.4	2520	27600	649	2900
STC6-64-AB	19973	17784	6 x 1/2	6	4	42.5	4.7	3786	25500	600	3270
STC6-84-AB	22704	20639	6 x 1/2	8	4	42.5	6.0	5046	24000	565	3660
STC6-66-AB	22900		6 x 1/2	6	6	42.5	4.7	5286	24900	586	3500
STC6-86-AB	26110		6 x 1/2	8	6	42.5	6.0	7044	22500	529	3970
STC6-43-AC		12779	6 x 3/4	4	3	42.5	3.4	2040	31800	748	2820
STC6-63-AC		16428	6 x 3/4	6	3	42.5	4.7	3060	29400	692	3170
STC6-83-AC		19807	6 x 3/4	8	3	42.5	6.0	4080	27600	649	3570
STC6-44-AC		15566	6 x 3/4	4	4	42.5	3.4	2520	31200	734	2900
STC6-64-AC		18794	5 x 3/4	6	4	42.5	4.7	3786	28800	678	3270
STC6-84-AC		21951	6 x 3/4	8	4	42.5	6.0	5046	26700	628	3660
STC6-43-AD		13703	6 x 1	4	3	42.5	3.4	2040	35100	826	2820
STC6-63-AD		17187	6 x 1	-6	3	42.5	4.7	3060	32100	755	3170
STC6-83-AD		20593	6 x 1	8	3	42.5	6.0	4080	29700	699	3570
STC6-44-AD		16581	6 x 1	4	4	42.5	3.4	2520	34200	805	2900
STC6-64-AD		19601	6 x 1	6	4	42.5	4.7	3786	31200	734	3270
STC6-84-AD		22897	6 x 1	8	4	42.5	6.0	5046	28800	678	3660
STC6-63-AE		18259	6 x 1 1/2	6	3	42.5	4.7	3060	36000	847	3170
STC6-83-AE		21831	6 x 1 1/2	8	3	42.5	6.0	4080	33000	777	3570
STC6-44-AE		17892	6 x 1 1/2	4	4	42.5	3.4	2520	38400	904	2900
STC6-64-AE		20855	6 x 1 1/2	6	4	42.5	4.7	3786	34800	819	3270
STC6-84-AE		23963	6 x 1 1/2	8	4	42.5	6.0	5046	31200	734	3660

30" Diameter 850 RPM – One Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC1-43-BB	2935	2622	1/2	4	3	10.6	1.7	510	6050	569	710
STC1-63-BB	3952	3526	1/2	6	3	10.6	2.1	764	5600	527	780
STC1-83-BB	4480	4074	1/2	8	3	10.6	2.4	1019	5100	480	870
STC1-44-BB	3685	3289	1/2	4	4	10.6	1.7	631	5900	555	730
STC1-64-BB	4632	4136	1/2	6	4	10.6	2.1	946	5450	513	810
STC1-84-BB	4975	4484	1/2	8	4	10.6	2.4	1261	4950	466	890
STC1-43-BC	3765	2812	3/4	4	3	10.6	1.7	510	6800	640	710
STC1-63-BC	4204	3752	3/4	6	3	10.6	2.1	764	6200	584	780
STC1-83-BC	4884	4440	3/4	8	3	10.6	2.4	1019	5700	536	870
STC1-44-BC	3976	3496	3/4	4	4	10.6	1.7	631	6600	621	730
STC1-64-BC	4853	4334	3/4	6	4	10.6	2.1	946	6000	565	810
STC1-84-BC	5433	4940	3/4	8	4	10.6	2.4	1261	5600	527	890
STC1-43-BD		3341	1	4	3	10.6	1.7	510	8450	795	710
STC1-63-BD		4136	1	6	3	10.6	2.1	764	7450	701	780
STC1-83-BD	5278	4873	1	8	3	10.6	2.4	1019	6500	612	870
STC1-44-BD		4008	1	4	4	10.6	1.7	631	8150	767	730
STC1-64-BD		4667	1	6	4	10.6	2.1	946	7100	668	810
STC1-84-BD	5844	5311	1	8	4	10.6	2.4	1261	6300	593	890
STC1-43-BE		3508	1 1/2	4	3	10.6	1.7	510	9100	856	710
STC1-63-BE		4249	1 1/2	6	3	10.6	2.1	764	7850	739	780
STC1-83-BE		4989	1 1/2	8	3	10.6	2.4	1019	7000	659	870
STC1-44-BE		4192	1 1/2	4	4	10.6	1.7	631	8700	819	730
STC1-64-BE		4814	1 1/2	6	4	10.6	2.1	946	7550	711	810
STC1-84-BE		5522	1 1/2	8	4	10.6	2.4	1261	6750	635	890

30" Diameter 850 RPM – Two Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC2-43-BB	5870	5244	2 x 1/2	4	3	273	2.4	1020	12100	569	1260
STC2-63-BB	7903	7051	2 x 1/2	6	3	21.3	3.0	1528	11200	527	1390
STC2-83-BB	8960	8147	2 x 1/2	8	3	21.3	3.7	2038	10200	480	1570
STC2-44-BB	7369	6578	2 x 1/2	4	4	21.3	2.4	1262	11800	555	1280
STC2-64-BB	9264	8272	2 x 1/2	6	4	21.3	3.0	1892	10900	513	1450
STC2-84-BB	9950	8969	2 x 1/2	8	4	21.3	3.7	2522	9900	466	1630
STC2-43-BC	6330	5624	2 x 3/4	4	3	21.3	2.4	1020	13600	640	1260
STC2-63-BC	8407	7503	2 x 3/4	6	3	21.3	3.0	1528	12400	584	1390
STC2-83-BC	9768	8880	2 x 3/4	8	3	21.3	3.7	2038	11400	536	1570
STC2-44-BC	7832	6992	2 x 3/4	4	4	21.3	2.4	1262	13200	621	1280
STC2-64-BC	9707	8667	2 x 3/4	6	4	21.3	3.0	1892	12000	565	1450
STC2-84-BC	10867	9879	2 x 3/4	8	4	21.3	3.7	2522	11200	527	1630
STC2-43-BD		6682	2 x 1	4	3	21.3	2.4	1020	16900	795	1260
STC2-63-BD		8272	2 x 1	6	3	21.3	3.0	1528	14900	707	1390
STC2-83-BD	10556	9746	2 x 1	8	3	21.3	3.7	2038	13000	612	1570
STC2-44-BD		8016	2 x 1	4	4	21.3	2.4	1262	16300	767	1280
STC2-64-BD		9334	2 x 1	6	4	21.3	3.0	1892	14200	668	1450
STC2-84-BD	11688	10623	2 x 1	8	4	21.3	3.7	2522	12600	593	1630
STC2-43-BE		7015	2 x 1 1/2	4	3	21.3	2.4	1020	18200	856	1260
STC2-63-BE		8498	2 x 1 1/2	6	3	21.3	3.0	1528	15700	739	1390
STC2-83-BE		9979	2 x 1 1/2	8	3	21.3	3.7	2038	14000	659	1570
STC2-44-BE		8384	2 x 1 1/2	4	4	21.3	2.4	1262	17400	819	1280
STC2-64-BE		9628	2 x 1 1/2	6	4	21.3	3.0	1892	15100	711	1450
STC2-84-BE		11045	2 x 1 1/2	8	4	21.3	3.7	2522	13500	635	1630

30" Diameter 850 RPM – Three Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC3-43-BB	8804	7866	3 x 1/2	4	3	31.9	3.0	1530	18150	569	1820
STC3-63-BB	11855	10577	3 x 1/2	6	3	31.9	4.0	2292	16800	527	2020
STC3-83-BB	13440	12221	3 x 1/2	8	3	31.9	4.9	3057	15300	480	2280
STC3-44-BB	11054	9867	3 x 1/2	4	4	31.9	3.0	1893	17700	555	1830
STC3-64-BB	13896	12407	3 x 1/2	6	4	31.9	4.0	2838	16350	573	2100
STC3-84-BB	14925	13453	3 x 1/2	8	4	31.9	4.9	3783	14850	466	2380
STC3-43-BC	9494	8435	3 x 3/4	4	3	31.9	3.0	1530	20400	640	1820
STC3-63-BC	12611	11255	3 x 3/4	6	3	31.9	4.0	2292	18600	584	2020
STC3-83-BC	14652	13320	3 x 3/4	8	3	31.9	4.9	3057	17100	536	2280
STC3-44-BC	11747	10488	3 x 3/4	4	4	31.9	3.0	1893	19800	621	1830
STC3-64-BC	14560	13007	3 x 3/4	6	4	31.9	4.0	2838	18000	565	2100
STC3-84-BC	16300	14819	3 x 3/4	8	4	31.9	4.9	3783	16800	527	2380
STC3-43-BD		10022	3 x 1	4	3	31.9	3.0	1530	25350	795	1820
STC3-63-BD		12407	3 x 1	6	3	31.9	4.0	2292	22350	707	2020
STC3-83-BD	15834	14619	3 x 1	8	3	31.9	4.9	3057	19500	612	2280
STC3-44-BD		12023	3 x 1	4	4	31.9	3.0	1893	24450	767	1830
STC3-64-BD		14007	3 x 1	6	4	31.9	4.0	2838	21300	668	2100
STC3-84-BD	17532	15934	3 x 1	8	4	31.9	4.9	3783	18900	593	2380
STC3-43-BE		10523	3 x 1 1/2	4	3	31.9	3.0	1530	27300	856	1820
STC3-63-BE		12746	3 x 1 1/2	6	3	31.9	4.0	2292	23550	739	2020
STC3-83-BE		14968	3 x 1 1/2	8	3	31.9	4.9	3057	21000	659	2280
STC3-44-BE		12575	3 x 1 1/2	4	4	31.9	3.0	1893	26100	819	1830
STC3-64-BE		14441	3 x 1 1/2	6	4	31.9	4.0	2838	22650	711	2100
STC3-84-BE		16567	3 x 1 1/2	8	4	31.9	4.9	3783	20250	635	2380

30" Diameter 850 RPM – Four Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC4-43-BB	11739	10488	4 x 1/2	4	3	42.5	3.6	2040	24200	569	2370
STC4-63-BB	15806	14102	4 x 1/2	6	3	42.5	4.9	3056	22400	527	2640
STC4-83-BB	17920	16295	4 x 1/2	8	3	42.5	6.2	4076	20400	480	2990
STC4-44-BB	14738	13156	4 x 1/2	4	4	42.5	3.6	2524	23600	555	2370
STC4-64-BB	18527	16543	4 x 1/2	6	4	42.5	4.9	3784	21800	513	2750
STC4-84-BB	19900	17938	4 x 1/2	8	4	42.5	6.2	5044	19800	466	3130
STC4-43-BC	12659	11247	4 x 3/4	4	3	42.5	3.6	2040	27200	640	2370
STC4-63-BC	16814	15006	4 x 3/4	6	3	42.5	4.9	3056	24800	584	2640
STC4-83-BC	19536	17760	4 x 3/4	8	3	42.5	6.2	4076	22800	536	2990
STC4-44-BC	15663	13984	4 x 3/4	4	4	42.5	3.6	2524	26400	621	2370
STC4-64-BC	19413	17334	4 x 3/4	6	4	42.5	4.9	3784	24000	565	2750
STC4-84-BC	21734	19758	4 x 3/4	8	4	42.5	6.2	5044	22400	527	3130
STC4-43-BD		13363	4 x 1	4	3	42.5	3.6	2040	33800	795	2370
STC4-63-BD		16543	4 x 1	6	3	42.5	4.9	3056	29800	701	2640
STC4-83-BD	21112	19492	4 x 1	8	3	42.5	6.2	4076	26000	612	2990
STC4-44-BD		16031	4 x 1	4	4	42.5	3.6	2524	32600	767	2370
STC4-64-BD		18668	4 x 1	6	4	42.5	4.9	3784	28400	668	2750
STC4-84-BD	23377	21245	4 x 1	8	4	42.5	6.2	5044	25200	593	3130
STC4-43-BE		14030	4 x 1 1/2	4	3	42.5	3.6	2040	36400	856	2370
STC4-63-BE		16995	4 x 1 1/2	6	3	42.5	4.9	3056	31400	739	2640
STC4-83-BE		19958	4 x 1 1/2	8	3	42.5	6.2	4076	28000	659	2990
STC4-44-BE		16767	4 x 1 1/2	4	4	42.5	3.6	2524	34800	819	2370
STC4-64-BE		19255	4 x 1 1/2	6	4	42.5	4.9	3784	30200	711	2750
STC4-84-BE		22089	4 x 1 1/2	8	4	42.5	6.2	5044	27000	635	3130

30" Diameter 850 RPM – Five Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC5-43-BB	14674	13170	5 x 1/2	4	3	53.1	4.2	2550	30250	569	2920
STC5-63-BB	19758	17628	5 x 1/2	6	3	53.1	5.9	3820	28000	527	3260
STC5-83-BB	22400	20369	5 x 1/2	8	3	53.1	7.5	5095	25500	480	3690
STC5-44-BB	18423	16445	5 x 1/2	4	4	53.1	4.2	3155	29500	555	2920
STC5-64-BB	23159	20679	5 x 1/2	6	4	53.1	5.9	4730	27250	513	3390
STC5-84-BB	24875	22422	5 x 1/2	8	4	53.1	7.5	6305	24750	466	3870
STC5-43-BC	15824	14059	5 x 3/4	4	3	53.1	4.2	2550	34000	640	2920
STC5-63-BC	21078	18758	5 x 3/4	6	3	53.1	5.9	3820	31000	584	3260
STC5-83-BC	24420	22200	5 x 3/4	8	3	53.1	7.5	5095	28500	536	3690
STC5-44-BC	19579	17480	5 x 3/4	4	4	53.1	4.2	3155	33000	621	2920
STC5-64-BC	24267	21668	5 x 3/4	6	4	53.1	5.9	4730	30000	565	3390
STC5-84-BC	27167	24698	5 x 3/4	8	4	53.1	7.5	6305	28000	527	3870
STC5-43-BD		16704	5 x 1	4	3	53.1	4.2	2550	42250	795	2920
STC5-63-BD		20679	5 x 1	6	3	53.1	5.9	3820	37250	701	3260
STC5-83-BD	26390	24365	5 x 1	8	3	53.1	7.5	5095	32500	612	3690
STC5-44-BD		20039	5 x 1	4	4	53.1	4.2	3155	40750	767	2920
STC5-64-BD		23335	5 x 1	6	4	53.1	5.9	4730	35500	668	3390
STC5-84-BD	29221	26557	5 x 1	8	4	53.1	7.5	6305	31500	593	3870
STC5-43-BE		17538	5 x 1 1/2	4	3	53.1	4.2	2550	45500	856	2920
STC5-63-BE		21244	5 x 1 1/2	6	3	53.1	5.9	3820	39250	739	3260
STC5-83-BE		24947	5 x 1 1/2	8	3	53.1	7.5	5095	35000	659	3690
STC5-44-BE		20959	5 x 1 1/2	4	4	53.1	4.2	3155	43500	819	2920
STC5-64-BE		24069	5 x 1 1/2	6	4	53.1	5.9	4730	37750	711	3390
STC5-84-BE		27611	5 x 1 1/2	8	4	53.1	7.5	6305	33750	635	3870

30" Diameter 850 RPM – Six Fan Unit

Model	Wet BTUh/TD	Frosted BTUh/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC6-43-BB	17609	15732	6 x 1/2	4	3	63.8	4.9	3060	36300	569	3470
STC6-63-BB	23710	21154	6 x 1/2	6	3	63.8	6.8	4584	33600	527	3880
STC6-83-BB	26880	24442	6 x 1/2	8	3	63.8	8.7	6114	30600	480	4400
STC6-44-BB	22108	19734	6 x 1/2	4	4	63.8	4.9	3786	35400	555	3480
STC6-64-BB	27791	24815	6 x 1/2	6	4	63.8	6.8	5676	32700	513	4040
STC6-84-BB	29850	26906	6 x 1/2	8	4	63.8	8.7	7566	29700	466	4620
STC6-43-BC	18989	16871	6 x 3/4	4	3	63.8	4.9	3060	40800	640	3470
STC6-63-BC	25222	22510	6 x 3/4	6	3	63.8	6.8	4584	37200	584	3880
STC6-83-BC	29304	26640	6 x 3/4	8	3	63.8	8.7	6114	34200	536	4400
STC6-44-BC	23495	20976	6 x 3/4	4	4	63.8	4.9	3786	39600	621	3480
STC6-64-BC	29120	26001	6 x 3/4	6	4	63.8	6.8	5676	36000	565	4040
STC6-84-BC	32601	29637	6 x 3/4	8	4	63.8	8.7	7566	33600	527	4620
STC6-43-BD		20045	6 x 1	4	3	63.8	4.9	3060	50700	795	3470
STC6-63-BD		24815	6 x 1	6	3	63.8	6.8	4584	44700	701	3880
STC6-83-BD	31668	29237	6 x 1	8	3	63.8	8.7	6114	39000	612	4400
STC6-44-BD		24047	6 x 1	4	4	63.8	4.9	3786	48900	767	3480
STC6-64-BD		28001	6 x 1	6	4	63.8	6.8	5676	42600	668	4040
STC6-84-BD	35065	31868	6 x 1	8	4	63.8	8.7	7566	37800	593	4620
STC6-43-BE		21045	6 x 1 1/2	4	3	63.8	4.9	3060	54600	856	3470
STC6-63-BE		25493	6 x 1 1/2	6	3	63.8	6.8	4584	47100	739	3880
STC6-83-BE		29937	6 x 1 1/2	8	3	63.8	8.7	6114	42000	659	4400
STC6-44-BE		25151	6 x 1 1/2	4	4	63.8	4.9	3786	52200	819	3480
STC6-64-BE		28883	6 x 1 1/2	6	4	63.8	6.8	5676	45300	711	4040
STC6-84-BE		33134	6 x 1 1/2	8	4	63.8	8.7	7566	40500	635	4620

30" Diameter 1140 RPM – One Fan Unit

Model	Frosted BTU/h/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC1-43-CD	2985	1	4	3	10.6	1.7	510	7400	696	710
STC1-63-CD	3990	1	6	3	10.6	2.1	764	6950	654	780
STC1-83-CD	4817	1	8	3	10.6	2.4	1019	6550	616	870
STC1-44-CD	3706	1	4	4	10.6	1.7	631	7250	682	730
STC1-64-CD	4572	1	6	4	10.6	2.1	946	6800	640	810
STC1-84-CD	5370	1	8	4	10.6	2.4	1261	6300	593	890
STC1-43-CE	3457	1 1/2	4	3	10.6	1.7	510	8900	838	710
STC1-63-CE	4360	1 1/2	6	3	10.6	2.1	764	8250	776	780
STC1-83-CE	5214	1 1/2	8	3	10.6	2.4	1019	7600	715	870
STC1-44-CE	4794	1 1/2	4	4	10.6	1.7	631	8700	819	730
STC1-64-CE	4971	1 1/2	6	4	10.6	2.1	946	8000	753	810
STC1-84-CE	5873	1 1/2	8	4	10.6	2.4	1261	7400	696	890
STC1-63-CF	4661	2	6	3	10.6	2.1	764	9350	880	780
STC1-83-CF	5553	2	8	3	10.6	2.4	1019	8500	800	870
STC1-64-CF	5299	2	6	4	10.6	2.1	946	8950	842	810
STC1-84-CF	6126	2	8	4	10.6	2.4	1261	8100	762	890

30" Diameter 1140 RPM – Two Fan Unit

Model	Frosted BTU/h/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC2-43-CD	5971	2 x 1	4	3	21.3	2.4	1020	14800	696	1260
STC2-63-CD	7980	2 x 1	6	3	21.3	3.0	1528	13900	654	1390
STC2-83-CD	9635	2 x 1	8	3	21.3	3.7	2038	13100	616	1570
STC2-44-CD	7413	2 x 1	4	4	21.3	2.4	1262	14500	682	1280
STC2-64-CD	9144	2 x 1	6	4	21.3	3.0	1892	13600	640	1450
STC2-84-CD	10620	2 x 1	8	4	21.3	3.7	2522	12600	593	1630
STC2-43-CE	6914	2 x 1 1/2	4	3	21.3	2.4	1020	17800	838	1260
STC2-63-CE	8719	2 x 1 1/2	6	3	21.3	3.0	1528	16500	776	1390
STC2-83-CE	10427	2 x 1 1/2	8	3	21.3	3.7	2038	15200	715	1570
STC2-44-CE	8388	2 x 1 1/2	4	4	21.3	2.4	1262	17400	819	1280
STC2-64-CE	9942	2 x 1 1/2	6	4	21.3	3.0	1892	16000	753	1450
STC2-84-CE	11626	2 x 1 1/2	8	4	21.3	3.7	2522	14800	696	1630
STC2-63-CF	9323	2 x 2	6	3	21.3	3.0	1528	18700	880	1390
STC2-83-CF	11107	2 x 2	8	3	21.3	3.7	2038	17000	800	1570
STC2-64-CF	10597	2 x 2	6	4	21.3	3.0	1892	17900	842	1450
STC2-84-CF	12252	2 x 2	8	4	21.3	3.7	2522	16200	762	1630

30" Diameter 1140 RPM – Three Fan Unit

Model	Frosted BTU/h/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC3-43-CD	8956	3 x 1	4	3	31.9	3.0	1530	22200	696	1820
STC3-63-CD	11970	3 x 1	6	3	31.9	4.0	2292	20850	654	2020
STC3-83-CD	14452	2 x 1	8	3	31.9	4.9	3057	79650	676	2280
STC3-44-CD	11119	3 x 1	4	4	31.9	3.0	1893	27750	682	1830
STC3-64-CD	13716	3 x 1	6	4	31.9	4.0	2838	20400	640	2100
STC3-84-CD	15931	3 x 1	8	4	31.9	4.9	3783	78900	593	2380
STC3-43-CE	10371	3 x 1 1/2	4	3	31.9	3.0	1530	26700	838	1820
STC3-63-CE	13079	3 x 1 1/2	6	3	31.9	4.0	2292	24750	776	2020
STC3-83-CE	156417	3 x 1 1/2	8	3	31.9	4.9	3057	22800	715	2280
STC3-44-CE	12582	3 x 1 1/2	4	4	31.9	3.0	1893	26700	879	1830
STC3-64-CE	14913	3 x 1 1/2	6	4	31.9	4.0	2838	24000	753	2100
STC3-84-CE	17439	3 x 1 1/2	8	4	31.9	4.9	3783	22200	696	2380
STC3-63-CF	13984	3 x 2	6	3	31.9	4.0	2292	28050	880	2020
STC3-83-CF	16660	3 x 2	8	3	31.9	4.9	3057	25500	800	2280
STC3-64-CF	15896	3 x 2	6	4	31.9	4.0	2838	26850	842	2100
STC3-84-CF	18378	3 x 2	8	4	31.9	4.9	3783	24300	762	2380

30" Diameter 1140 RPM – Four Fan Unit

Model	Frosted BTU/h/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC4-43-CD	11942	4 x 1	4	3	42.5	3.6	2040	29600	696	2370
STC4-63-CD	15960	4 x 1	6	3	42.5	4.9	3056	27800	654	2640
STC4-83-CD	19270	4 x 1	8	3	42.5	6.2	4076	26200	676	2990
STC4-44-CD	14826	4 x 1	4	4	42.5	3.6	2524	29000	682	2370
STC4-64-CD	18288	4 x 1	6	4	42.5	4.9	3784	27200	640	2750
STC4-84-CD	21241	4 x 1	8	4	42.5	6.2	5044	25200	593	3130
STC4-43-CE	13828	4 x 1 1/2	4	3	42.5	3.6	2040	35600	838	2370
STC4-63-CE	17438	4 x 1 1/2	6	3	42.5	4.9	3056	33000	776	2640
STC4-83-CE	20855	4 x 1 1/2	8	3	42.5	6.2	4076	30400	775	2990
STC4-44-CE	16776	4 x 1 1/2	4	4	42.5	3.6	2524	34800	879	2370
STC4-64-CE	19883	4 x 1 1/2	6	4	42.5	4.9	3784	32000	753	2750
STC4-84-CE	23252	4 x 1 1/2	8	4	42.5	6.2	5044	29600	696	3130
STC4-63-CF	18645	4 x 2	6	3	42.5	4.9	3056	37400	880	2640
STC4-83-CF	22213	4 x 2	8	3	42.5	6.2	4076	34000	800	2990
STC4-64-CF	21194	4 x 2	6	4	42.5	4.9	3784	35800	842	2750
STC4-84-CF	24504	4 x 2	8	4	42.5	6.2	5044	32400	762	3130

30" Diameter 1140 RPM – Five Fan Unit

Model	Frosted BTU/h/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC5-43-CD	14927	5 x 1	4	3	53.1	4.2	2550	37000	696	2920
STC5-63-CD	19950	5 x 1	6	3	53.1	5.9	3820	34750	654	3260
STC5-83-CD	24087	5 x 1	8	3	53.1	7.5	5095	32750	676	3690
STC5-44-CD	18532	5 x 1	4	4	53.1	4.2	3755	36250	682	2920
STC5-64-CD	22860	5 x 1	6	4	53.1	5.9	4730	34000	640	3390
STC5-84-CD	26551	5 x 1	8	4	53.1	7.5	6305	37500	593	3870
STC5-43-CE	17285	5 x 1 1/2	4	3	53.1	4.2	2550	44500	838	2920
STC5-63-CE	21798	5 x 1 1/2	6	3	53.1	5.9	3820	47250	776	3260
STC5-83-CE	26068	5 x 1 1/2	8	3	53.1	7.5	5095	38000	715	3690
STC5-44-CE	20970	5 x 1 1/2	4	4	53.1	4.2	3755	43500	879	2920
STC5-64-CE	24854	5 x 1 1/2	6	4	53.1	5.9	4730	40000	753	3390
STC5-84-CE	29065	5 x 1 1/2	8	4	53.1	7.5	6305	37000	696	3870
STC5-63-CF	23306	5 x 2	6	3	53.1	5.9	3820	46750	880	3260
STC5-83-CF	27767	5 x 2	8	3	53.1	7.5	5095	42500	800	3690
STC5-64-CF	26493	5 x 2	6	4	53.1	5.9	4730	44750	842	3390
STC5-84-CF	30630	5 x 2	8	4	53.1	7.5	6305	40500	762	3870

30" Diameter 1140 RPM – Six Fan Unit

Model	Frosted BTU/h/TD	Fan hp	Rows	FPI	Face Area sq ft	Coil Volume cu ft	Surface sq ft	CFM	Face Velocity FPM	Stainless Weight lb
STC6-43-CD	17912	6 x 1	4	3	63.8	4.9	3060	44400	696	3470
STC6-63-CD	23940	6 x 1	6	3	63.8	6.8	4584	41700	654	3880
STC6-83-CD	28904	6 x 1	8	3	63.8	8.7	6114	39300	616	4400
STC6-44-CD	22239	6 x 1	4	4	63.8	4.9	3786	43500	682	3480
STC6-64-CD	27432	6 x 1	6	4	63.8	6.8	5676	40800	640	4040
STC6-84-CD	31861	6 x 1	8	4	63.8	8.7	7566	37800	593	4620
STC6-43-CE	20741	6 x 1 1/2	4	3	63.8	4.9	3060	53400	838	3470
STC6-63-CE	26157	6 x 1 1/2	6	3	63.8	6.8	4584	49500	776	3880
STC6-83-CE	31282	6 x 1 1/2	8	3	63.8	8.7	6114	45600	715	4400
STC6-44-CE	25164	6 x 1 1/2	4	4	63.8	4.9	3786	52200	819	3480
STC6-64-CE	29825	6 x 1 1/2	6	4	63.8	6.8	5676	48000	753	4040
STC6-84-CE	34878	6 x 1 1/2	8	4	63.8	8.7	7566	44400	696	4620
STC6-63-CF	27968	6 x 2	6	3	63.8	6.8	4584	56100	880	3880
STC6-83-CF	33320	6 x 2	8	3	63.8	8.7	6114	51000	800	4400
STC6-64-CF	31791	6 x 2	6	4	63.8	6.8	5676	53700	842	4040
STC6-84-CF	36757	6 x 2	8	4	63.8	8.7	7566	48600	762	4620

Specifications

BASE: Furnish as shown on the drawings STC style evaporator with a capacity of ___ BTUH at ___ °F room temperature and ___ °F saturated suction temperature with ___ refrigerant.

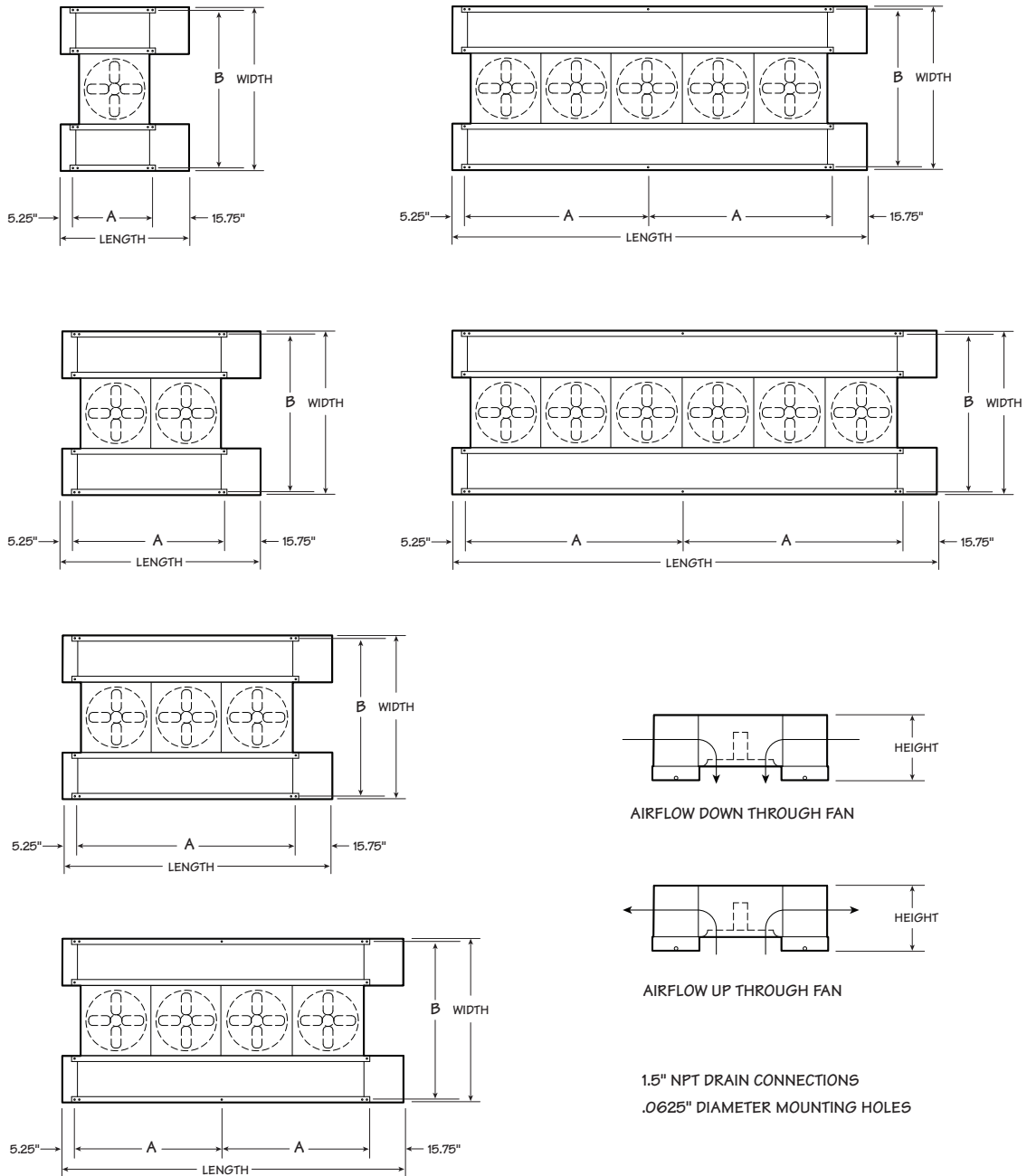
PERFORMANCE: The thermal capacity of the evaporator shall be based on the "TD Ratings Method" in accordance with AHRI-Standard 420. Where by the temperature difference (TD) shall be defined as the difference between the air temperature entering the evaporator and the saturated suction temperature of the coil.

CASING: STC model casing shall be heavy duty mill galvanized steel for long life and maximum strength.

MOTOR: Fan motors shall be Premium Efficiency Totally Enclosed Fan Cooled with 1.15 service factor. Fan motor shall be grease suitable for -40°F for low ambient conditions operating at 870 and 1160. Fan motors shall be foot mounted and prewired to NEMA 4 junction box located on the return bend end.

FAN AND FAN GUARD: Fan shall be constructed of aluminum material and selected for maximum efficiency with non-overloading performance. Fan guards shall be powder coated for long life.

HEAT TRANSFER COIL: Coils shall be constructed of 3/4" OD tubes staggered in the direction of air flow. Turbo-spacers located between tubes provide nominal 3, 4 or 6 FPI spacing and improved efficiency by turbulating airflow. Coil construction shall be available in hot dip galvanized steel tubes and fins, aluminum tube and fins, copper tubes and aluminum fins and stainless steel tube and aluminum fins. All tubing shall meet the requirements of ASME B31.5 Refrigerant Piping Code. The entire coil shall be pressure tested to 350 psig. The coil shall be evacuated and charged with low pressure nitrogen prior to shipment.



Fan Quantity	Model		Dimensions in					Heater Removal Clearance in	
	Fan Diameter	Rows	Length	Width	Height	A	B	Header End	Return End
One	24"	4	55.00	56.00	24.00	34.00	51.75	38	
		6	55.00	64.00	24.00	34.00	59.75		
		8	55.00	70.00	24.00	34.00	65.75		
	30"	4	61.00	62.00	28.00	40.00	57.75	48	
		6	61.00	70.00	28.00	40.00	65.75		
		8	61.00	76.00	28.00	40.00	71.75		
Two	24"	4	85.00	56.00	24.00	64.00	51.75	68	
		6	85.00	64.00	24.00	64.00	59.75		
		8	85.00	70.00	24.00	64.00	65.75		
	30"	4	97.00	62.00	28.00	76.00	57.75	80	
		6	97.00	70.00	28.00	76.00	65.75		
		8	97.00	76.00	28.00	76.00	71.75		
Three	24"	4	115.00	56.00	24.00	94.00	51.75	98	
		6	115.00	64.00	24.00	94.00	59.75		
		8	115.00	70.00	24.00	94.00	65.75		
	30"	4	133.00	62.00	28.00	112.00	57.75	68	
		6	133.00	70.00	28.00	112.00	65.75		
		8	133.00	76.00	28.00	112.00	71.75		
Four	24"	4	145.00	56.00	24.00	62.00	51.75	68	68
		6	145.00	64.00	24.00	62.00	59.75		
		8	145.00	70.00	24.00	62.00	65.75		
	30"	4	169.00	62.00	28.00	74.00	57.75	80	
		6	169.00	70.00	28.00	74.00	65.75		
		8	169.00	76.00	28.00	74.00	71.75		
Five	24"	4	175.00	56.00	24.00	77.00	51.75	80	80
		6	175.00	64.00	24.00	77.00	59.75		
		8	175.00	70.00	24.00	77.00	65.75		
	30"	4	205.00	62.00	28.00	92.00	57.75	98	
		6	205.00	70.00	28.00	92.00	65.75		
		8	205.00	76.00	28.00	92.00	71.75		
Six	24"	4	205.00	56.00	24.00	92.00	51.75	98	98
		6	205.00	64.00	24.00	92.00	59.75		
		8	205.00	70.00	24.00	92.00	65.75		
	30"	4	241.00	62.00	28.00	110.00	57.75		
		6	241.00	70.00	28.00	110.00	65.75		
		8	241.00	76.00	28.00	110.00	71.75		

STC industrial evaporator

ENGINEERING DATA

SPX COOLING TECHNOLOGIES, INC.

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