





SBH / SBV Series Design Features

new product offering

DESIGNED FOR MAXIMUM FLEXIBILITY

Both Horizontal and Vertical Belt Drive Blower Coils are designed to maximize flexibility of selection and installation.

The units will exceed the stringent quality standards of the institutional market, while remaining cost competitive in the light commercial segment of the market.

COMPONENT OPTIONS

The extensive variety of standard options available on the SBH & SBV units are where you find the versatility to fit any HVAC system designer's needs.

Options include mixing boxes with standard low leak dampers, high efficiency filter sections for 2" prefilter and 4" final filter and blow-thru electric heat with single point power connection. All Electric Heat units are listed with ETL as an assembly and carry the cETL label.

High Efficiency motors, starters, disconnects and fusing mean easier coordination between mechanical and electrical trades.

All SBH and SBV belt drive blower coils have the option of foil faced insulation.

COIL OPTIONS

Coil options allow for 4 or 6 row cooling coils. Water coils have optional circuiting that can be used to reduce Water Pressure Drop, which may also allow for pipe size reductions and lower material cost. Hot Water or Standard Steam coils may be placed in the Preheat or Reheat position.

QUALITY PRODUCT

SBH and SBV belt drive blower coils are built from 18 gauge galvanized steel. This metal surpasses the ASTM 125 hour salt spray test for corrosion and rust. Standard insulation is 1 inch thick fiberglass, complying with UL 181 and NFPA 90A. All units, with or without Electric Heat, are cETL listed and labeled. All wiring is in compliance with NEC, assuring safety and quality for the owner.

LOWER INSTALLED COST

All SBH or SBV belt drive blower coils are shipped completely assembled, reducing field installation time and labor. All units are thoroughly inspected and tested prior to shipment, eliminating potential problems at startup. Motor wiring is brought to a junction box on the outside of the unit casing, reducing electrical hook-up time. A wide variety of fan discharge configurations allow for increased flexibility and easier installation on the jobsite, resulting in cost reductions by eliminating expensive elbows, etc.









Applications

APPLICATION CONSIDERATIONS

Models SBH & SBV Belt Drive Blower Coils offer a wide range of application flexibility, while maintaining a simple, easy to install unit design. These units are intended to provide comfort cooling and heating within a small footprint. They may be applied in many types of building structures including schools, office buildings, hospitals, condominiums, assisted living facilities, apartments or stores. Applications can be constant or variable volume.

There are many applications the SBH & SBV product can be utilized. Some examples are listed below.

Constant volume applications:

- » Two-pipe hydronic system for cooling and/or heating
- » Two-pipe hydronic cooling system with electric heat
- » Four-pipe system with dedicated heating and cooling coils
- » Direct Expansion (DX) split systems with hydronic heat
- » Direct Expansion (DX) split systems with electric heat

Variable volume applications:

- » Two-pipe hydronic system for cooling and/or heating
- » Two-pipe hydronic cooling system with electric heat
- » Four-pipe system with dedicated heating and cooling coils

ACOUSTICS

Control of noise within both occupied and unoccupied spaces has become increasingly important to designers and building owners/occupants. Proper consideration must be given to placement of indoor air conditioning units, particularly in the occupied space. Inherent flexibility of the fan and coil combination in the vertical configuration allows application in sound-sensitive areas. In such instances, a fan running at a low speed with a high capacity coil normally yields satisfactory results. It also may be desirable to select a larger nominal capacity unit and operate it at a less than nominal airflow for further acoustic benefit.

Three phase motors are recommended for sound-sensitive applications to avoid potential single phase motor hum. Unit operation in the stall region of the fan curve is not recommended since it may cause unsatisfactory noise levels and excessive unit vibration.

INSTALLATION

These floor mounted or ceiling hung units can be installed with external vibration isolation on a base rail (SBH or SBV) or hanger rods (SBH only) at the corner points. This requires flex connections at the corner brackets, ductwork, electrical connections and piping connections. One of the most important and basic IAQ issues is condensate management. The first step to trouble-free operation is proper installation. It is very important that the unit be mounted high enough so that the condensate drain from the unit may be properly trapped. Please refer to the SBH & SBV IOM Manual at www.superiorrex.com for specifics on this issue. As with all HVAC systems, these units should be installed according to all applicable ASHRAE standards, SMACNA and local code requirements.

OPERATING LIMITATIONS

Units must not be operated above maximum fan speed or unit airflow as listed in the Fan Performance section of this catalog. Unit operation at greater than maximum fan speed could drastically reduce bearing life and may result in a catastrophic wheel failure. Operating at greater than the maximum allowable airflow in the cooling mode may result in unsatisfactory operation due to moisture carry over from the coil. In addition, it is often not economical to operate a unit at its maximum fan speed due to the greater motor power requirements.

Units with electric heat should not be operated with leaving air temperature greater than 104°F (40°C), to prevent excessive leaving air temperatures and electric heat limit trips. A hydronic (or steam) coil and electric heat should not be operated simultaneously to prevent excessive leaving air temperatures and limit trips. Electric heat units are equipped with a high limit lockout switch that disables the electric heater if the temperature of the hydronic coil is greater than 104°F (40°C).

Water coils must not be operated above a fluid velocity of 8 ft./sec. to reduce the possibility of velocity induced erosion and flow noise. Water coils must not be operated below a fluid velocity of 1 ft./sec. to prevent degraded coil performance caused by laminar flow. These high or low fluid flow rates may not be included in the AHRI coil certification.

new product offering

Horizontal & Vertical Belt Drives

SBH

- » Mixing boxes with standard low-leak dampers, high-efficiency filter sections for 2" prefilter and 4" final filter
- » Fiberglass-insulated cabinets, main incoming-power disconnect (non-fused), fusing (main), magnetic contractors, and fan control package with heater interlock contacts
- » Blow-through electric heat with single-point power connection
- » Meets all N.E.C. requirements and is cETL listed in compliance with UL/ANSI Std. 1995
- » Hot water, chilled water and direct expansion coils, steam, cold water/hot water changeover available for all models
- » 800 4000 cfm nominal airflows



SBH

AVAILABLE MODEL:

SBH

OVERVIEW

Superior Rex horizontal belt drive blower coils offer a wide range of application flexibility, while maintaining a simple, easy to install unit design. These units are intended to provide comfort cooling and heating within a small footprint. They may be applied in many types of building structures including schools, office buildings, hospitals, condominiums, assisted living facilities, apartments and stores. Applications can be constant or variable volume.

OPTIONAL FEATURES INCLUDE:

Construction

- » IAQ (sloped) stainless steel drain pan with 1" MPT galvanized pipe outlet
- » Galvanized steel drain pan
- » External rubber-in-shear or spring type vibration isolators, hangers or floor mount
- » Fan discharge arrangements
- » Scrim reinforced foil faced insulation
- » Hinged access panels with lift and turn fasteners
- » Base rails with rigging slots factory assembled and installed
- » Auxiliary (secondary) drain connections

Fan Motor and Drive

- » High efficiency motors
- » TEFC motors



See website for Specifications

Coils

- » 3, 4 and 6 row chilled water or DX coils
- » 1 and 2 row hot water or standard steam coils
- » Heating coil in preheat or reheat position
- » Coil connections opposite handing
- » Stainless steel coil casings
- » Automatic air vents on water coils
- » Heat pump compatible cooling coils
- » 0.025" tube wall thickness

Filters

- » 2" pleated filter
- » Spare throwaway or pleated filters
- » High efficiency filter rack with 2" and 4" filters

Inlet Damper Section

- » Factory assembled and installed
- » Heavy gauge galvanized steel formed blade dampers
- » Low leak dampers with extruded vinyl blade seals and flexible metal jamb seals
- » Parallel blade operation
- » Interconnecting damper linkage





A Participating Corporation in the AHRI 430 Certification Program



Electrical

- » Motor wiring on conduit
- » Motor starter (contactor with overload for three phase; contactor for single phase), factory installed (mounted and wired)
- » Door interlocking disconnect switch (non-fused)
- » Hand off auto switch (HOA)
- » Main fusing

Electric Heat Section

» Factory mounted electric heater with single point power connection, cETL listed as an assembly

SBV

- » Mixing boxes with standard low-leak dampers, high-efficiency filter sections for 2" prefilter and 4" final filter
- » Fiberglass-insulated cabinets, main incoming-power disconnect (non-fused), fusing (main), magnetic contractors, and fan control package with heater interlock contacts
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SBV

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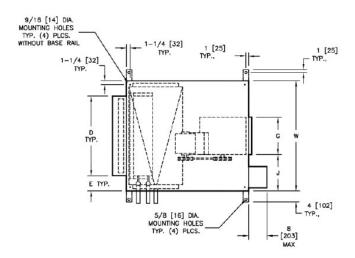
Electric Heat Section

» Factory mounted electric heater with single point power connection, cETL listed as an assembly

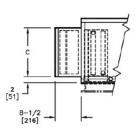
SBH UNIT DIMENSIONS / DISCHARGE ARRANGEMENT 2

Notes

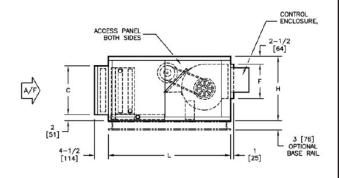
- All dimensions are inches [millimeters]. All dimensions are ±½"
 [6mm]. Metric values are soft conversion.
- Right hand unit shown, left hand unit opposite. Motor/drive location may be specified Left or Right Hand. Standard control enclosure location matches motor/drive position.
- 3. Provide sufficient clearance to permit access to controls and comply with applicable codes and ordinances
- Flat filter rack may be located at unit inlet as required. See drawing for filter rack details.
- Base rail is optional on the base unit. See drawing. Base rails must be used with mixing box.
- See coil connection detail drawings for coil connection sizes and locations



Top View



High Efficiency Filter Rack

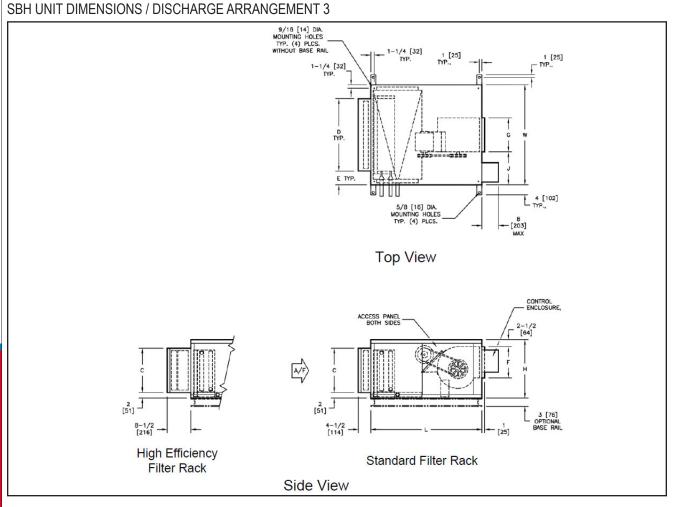


Standard Filter Rack

Side View

	Dimensions													
Unit Size	Fan Size	لــ	W	Н	С	D	Е	F	G	J				
08	9 x 4 [229 x 102]	24 [610]	30 [762]	44 [1118]	16 [406]	20 [508]	5 [127]	10 ¼ [260]	6 ⁷ /8 [175]	11 ⁹ /16 [294]				
12	9 x 6 [229 x 152]	24 [610]	36 [914]	44 [1118]	16 [406]	25 [635]	5 ½ [140]	11 ¼ [286]	8 ¼ [210]	13 ⁷ /8 [352]				
16	10 x 8 [254 x 203]	24 [610]	44 [1118]	44 [1118]	16 [406]	39 ½ [1003]	2 ¼ [57]	13 ½ [343]	10 ¼ [260]	16 ⁷ /8 [429]				
20	10 x 10 [254 x 524]	30 [762]	50 [1270]	50 [1270]	16 [406]	44 ½ [1130]	2 ¾ [70]	13 ½ [343]	13 ¼ [337]	18 ³/8 [467]				
30	15 x 9 [381 x 229]	30 [762]	59 [1499]	56 [1422]	25 [635]	51 [1295]	4 [102]	16 [406]	13 ¼ [337]	22 7/8 [581]				
40	15 x 11 [381 x 279]	30 [762]	68 [1727]	59 [1499]	25 [635]	59 [1499]	4 ½ [114]	16 [406]	15 [381]	26 ½ [673]				

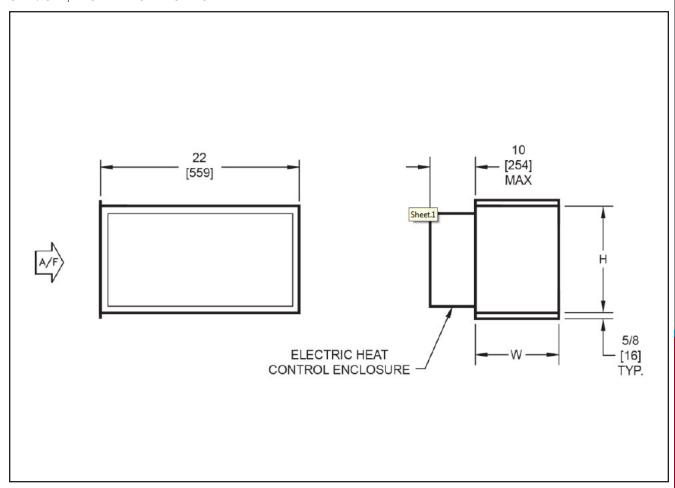
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- 1. All dimensions are inches [millimeters]. All dimensions are ±¼" [6mm]. Metric values are soft conversion.
- 2. Damper drive rods are internal, located on both sides of unit
- 3. Mixing box includes space for standard flat filter rack
- 4. Base rails are including with mixing box

	Dimensions													
Unit Size	Fan Size	اد	W	Н	С	D	Е	F	G	J				
08	9 x 4 [229 x 102]	40 [1016]	30 [762]	21 [533]	16 [406]	20 [508]	5 [127]	10 ¼ [260]	6 ⁷ /8 [175]	11 ⁹ /16 [294]				
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30	15 x 9 [381 x 229]	46 [1168]	59 [1499]	30 [762]	25 [635]	51 [1295]	4 [102]	16 [406]	13 ¼ [337]	22 7/8 [581]				
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SBH / SBV, BLOW-THRU ELECTRIC HEAT



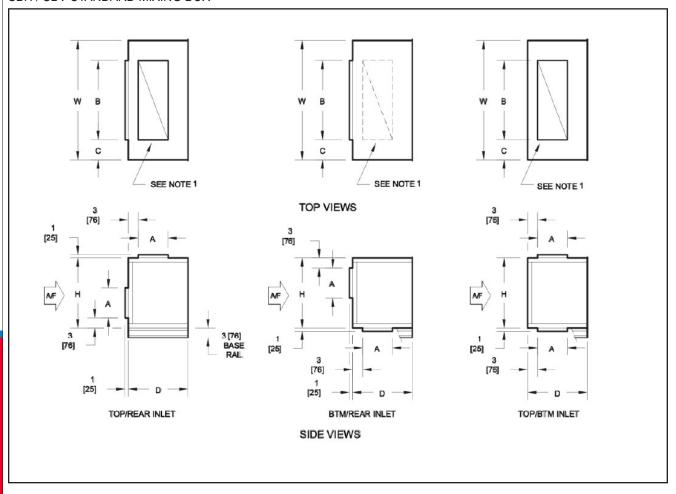
Notes:

- 1. All dimensions are inches [millimeters]. All dimensions are ±½" [6mm]. Metric values are soft conversion.
- 2. Motor/drive location may be specified Left or Right Hand. Standard control enclosure location matches motor/drive position
- 3. Provide sufficient clearance to permit access to controls and comply with applicable codes and ordinances
- 4. Available for horizontal discharge only

BLOW-THRU ELECTRIC HEAT SECTION

Unit Size	Н	W	Weight lbs [kg]
08	11 7/8 [302]	8 ⁷ /8 [225]	42 [19]
12	11 7/8 [302]	8 ⁷ /8[225]	42 [19]
16	12 [305]	10 ⁷ /8 [278]	42 [19]
20	12 [305]	13 ⁷ /8 [352]	50 [23]
30	16 ⁵ /8 [422]	13 ⁷ /8 [352]	55 [25]
40	16 ⁵ /8 [422]	15 ⁷ /8 [397]	55 [25]

SBH / SBV STANDARD MIXING BOX



- 1. All dimensions are inches [millimeters]. All dimensions are ±½" [6mm]. Metric values are soft conversion.
- 2. Damper drive rods are internal, located on both sides of unit
- 3. Mixing box includes space for standard flat filter rack
- 4. Base rails are including with mixing box

	Dimensions												
Unit Size	H W A B C D												
08	21 [533]	30 [762]	9 [229]	18 [457]	6 [152]	18 [457]							
12	21 [533]	36 [914]	9 [229]	24 [610]	6 [152]	18 [457]							
16	21 [533]	44 [1118]	9 [229]	30 [762]	7 [178]	18 [457]							
20	21 [533]	50 [1270]	12 [305]	36 [914]	7 [178]	21 [533]							
30	30 [762]	59 [1499]	12 [305]	45 [1143]	7 [178]	21 [533]							
40	30 [762]	68 [1727]	15 [381]	48 [1219]	10 [254]	24 [610]							



Performance Data

Coil and Filter Data

COIL AND FILTER DATA

Unit Size	Coil Face Area	2" Flat Filters (Quantity) and Size	Filter Face Area
08	2.1 [0.20]	(1) 16 x 20 x 2 [406 x 508 x 51]	2.2 [0.20]
12	2.7 [0.25]	(1) 16 x 25 x 2 [406 x 635 x 51]	2.8 [0.26]
16	3.5 [0.33]	(2) 16 x 20 x 2 [406 x 508 x 51]	4.4 [0.41]
20	4.9 [0.46]	(1) 16 x 20 x 2 [406 x 508 x 51] (1) 16 x 25 x 2 [406 x 635 x 51]	5.0 [0.46]
30	6.5 [0.60]	(2) 16 x 25 x 2 [406 x 635 x 51] (1) 20 x 25 x 2 [508 x 635 x 51]	9.0 [0.84]
40	8.4 [0.78]	(3) 20 x 25 x 2 [508 x 635 x 51]	10.4 [0.97]

Notes:

- 1. Standard filters are 2" throwaway
- 2. Filter sizes are nominal and standard size, measured in inches [millimeters]
- 3. Coil and filter face areas are measured in square feet [square meters]
- 4. Cooling and heating coils have same face area

NOMINAL COIL CONNECTION SIZES

	Coil Type														
Unit			Water				Refrigerant								
Size	1 Daw	2 Row	3 Row	4.5		1 F	Row	2 F	Row	3 F	Row	4 F	Row	6 F	Row
	1 Row	2 ROW	3 KOW	4 Row	6 Row	STM.	COND.	STM.	COND.	Liquid	Suction	Liquid	Suction	Liquid	Suction
08	⁵ /8 [16]	⁵ /8 [16]	⁷ /8 [22]	⁷ /8 [22]	⁷ /8 [22]	1 ¹ /8 [29]	⁷ /8 [22]	1 ¹ /8 [29]	⁷ /8 [22]	5/8 [16]	⁵ /8 [16]	⁵ /8 [16]	⁵ /8 [16]	⁵ /8 [16]	⁵ /8 [16]
12	⁵ /8 [16]	⁵ /8 [16]	⁷ /8 [22]	⁷ /8 [22]	⁷ /8 [22]	1 ¹ /8 [29]	⁷ /8 [22]	1 ¹ /8 [29]	⁷ /8 [22]	5/8 [16]	⁷ /8 [22]	⁵ /8 [16]	⁷ /8 [22]	⁵ /8 [16]	⁷ /8 [22]
16	⁵ /8 [16]	⁷ /8 [22]	⁷ /8 [22]	⁷ /8 [22]	1 ¹ /8 [29]	1 ¹ /8 [29]	⁷ /8 [22]	1 ³ /8 [35]	1 ¹ /8 [29]	⁵ /8 [16]	⁷ /8 [22]	⁵ /8 [16]	⁷ /8 [22]	⁵ /8 [16]	⁷ /8 [22]
20	⁵ /8 [16]	⁷ /8 [22]	1 ¹ /8 [29]	1 ¹ /8 [29]	1 ¹ /8 [29]	1 ³ /8 [35]	1 ¹ /8 [29]	1 ³ /8 [35]	1 ¹ /8 [29]	⁵ /8 [16]	⁷ /8 [22]	⁵ /8 [16]	⁷ /8 [22]	⁵ /8 [16]	⁷ /8 [22]
30	⁷ /8 [22]	1 ¹ /8 [29]	1 ¹ /8 [29]	1 ¹ /8 [29]	1 ³ /8 [35]	1 ⁵ /8 [41]	1 ¹ /8 [29]	1 ⁵ /8 [41]	1 ¹ /8 [29]	⁵ /8 [16]	1 ¹ /8 [29]	5/8 [16]	1 ¹ /8 [29]	⁵ /8 [16]	1 ¹ /8 [29]
40	1 ¹ /8 [29]	1 ³ /8 [35]	1 ³ /8 [35]	1 ³ /8 [35]	1 ⁵ /8 [41]	2 ¹ /8 [54]	1³/8 [35]	2 ¹ /8 [54]	1 ³ /8 [35]	5/8 [16]	1 ¹ /8 [29]	5/8 [16]	1 ¹ /8 [29]	⁷ /8 [22]	1 ³ /8 [35]

- 1. Water coils are based on Standard GPM Circuiting. Consult Superior Rex Representative for applications requiring special circuiting.
- 2. For other selections, refer to RAMP
- 3. Refrigerant coil connection sizes for single circuit coils and may vary with application. Contact Superior Rex for double circuit coils.
- 4. All dimensional data is outside diameter (O.D.), measured in inches [millimeters]

before, during, and after installation guarantees the highest quality and



Performance Data

COILS AND STATIC PRESSURE DATA

COILS

Superior Rex manufactures hot water, chilled water and direct expansion (DX) coils for specific application with all Model SBH and SBV blower coils. AHRI 410 certified and labeled, and strict on-site inspection

Optional Features

performance available.

- » Stainless steel coil casings
- » Automatic air vents on water coils
- » Heat pump compatible cooling coils
- » 0.025" tube wall thickness

Standard Features

- » Designed, manufactured and tested by Superior Rex
- » AHRI 410 certified and labeled
- » ½" O.D. seamless copper tubes
- » High efficiency aluminum fin surface for optimizing heat transfer, pressure drop and carryover
- » Mechanically expanded copper tubes leak tested to a minimum 450 PSIG air pressure under water
- » Manual air vent plug on all water coils
- » Copper ODM sweat connections
- » 300 PSIG working pressure at 200°F
- » Evaporator coils are factory sealed and charged with a minimum of 5 PSIG nitrogen or refrigerated dry air
- » Steam coils rated at 15 PSIG maximum operating pressure at about 35°F
- » 0.016" tube wall thickness (0.025" on steam)



COMPONENT STATIC PRESSURE LOSS - INCHES W.G.

	Nominal		Filter			Coil			Inlet	Electric
Unit Size	CFM	Cabinet	(2" T/A)	1 Row	2 Row	3 Row	4 Row	6 Row	Damper Section	Heat Section
08	800	0.09	0.25	0.05	0.10	0.23	0.31	0.47	0.04	0.05
12	1200	0.09	0.25	0.06	0.12	0.29	0.39	0.58	0.06	0.05
16	1600	0.10	0.25	0.06	0.13	0.30	0.40	0.60	0.09	0.05
20	2000	0.11	0.25	0.06	0.11	0.26	0.35	0.52	0.05	0.05
30	3000	0.14	0.25	0.07	0.13	0.31	0.41	0.61	0.08	0.05
40	4000	0.16	0.25	0.07	0.14	0.32	0.43	0.64	0.07	0.05

- 1. All static pressures are at nominal CFM
- 2. Coil static pressure for standard coil, 10FPI at 80/67 EAT and 45° EWT with 10° rise
- 3. For 8, 12 or 14 FPI, refer to RAMP
- 4. Filter static pressure based on 50% loaded filter
- 5. If pleated filters are used in lieu of throwaway, the filter static pressure loss is 0.35



Performance Data

Electric Heat

Standard Features

- » Flanged construction for direct unit mounting, in blow-thru configuration
- » Listed for zero clearance installation
- » Meets National Electrical Code requirements
- » Ni-Chrome wire in ceramic insulators
- » Stainless steel element terminals and hardware
- » Element support brackets on maximum 3 ½" centers
- » Solid cover with continuous full height hinge
- » Overtemperature protection
- » All internal wiring rated for 105°C minimum
- » Airflow switch
- » Incoming line power distribution block
- » cETL Listed in compliance with UL/ANSI Standard 1995
- » Single point power connection
- » Heater factory mounted to unit with cETL listing as an assembly

Optional Features

- » Main incoming power disconnect (non-fused)
- » Fusing (main)
- » Magnetic contactors wired for disconnecting operation
- » Fan control package with heater interlock contacts (required for single point power connection)

Electrical Calculations Information

- 1. Contact your local Superior Rex sales office
- 2. Non-Fused Door Interlock Disconnect Switch shall be sized according to MCA
- 3. Main Fusing shall be sized according to MOP

§ Side View	Front View
	Blow Thru ed on unit discharge)

Heater AMP	Calculation
Voltage	AMPs per kW
115/1	8.70
208/1	4.81
230/1	4.35
277/1	3.61
208/3	2.78
230/3	2.51
460/3	1.26
575/3	1.00

				Electric Heat KW Limits											
Unit Voltag	ao And Di	200						Unit	Size						
Offic Voica	ge Allu Fi	lase	(08	12		16		20		30		40		
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
	115	kW	3	5	3	5	3	5	4	5					
	110	AMPs	26.1	43.5	26.1	43.5	26.1	43.5	34.8	43.5					
	208	kW	3	9	3	9	3	9	4	9	6	9	7	9	
Single	200	AMPs	14.4	43.3	14.4	43.3	14.4	43.3	19.2	43.3	28.8	43.3	33.7	43.3	
Phase	220	kW	3	11	3	11	3	11	4	11	6	11	7	11	
	230	AMPs	13.0	47.8	13.0	47.8	13.0	47.8	17.4	47.8	26.1	47.8	30.4	47.8	
	077	kW	3	13	3	13	3	13	4	13	6	13	7	13	
	277	AMPs	10.8	46.9	10.8	46.9	10.8	46.9	14.4	46.9	21.7	46.9	25.3	46.9	
	208	kW	3	13	3	16	3	16	4	16	4	16	7	16	
	200	AMPs	8.3	36.1	8.3	44.4	8.3	44.4	11.1	44.4	11.1	44.4	19.4	44.4	
	230	kW	3	13	3	18	3	18	4	18	4	18	7	18	
Three	230	AMPs	7.5	32.6	7.5	45.2	7.5	45.2	10.0	45.2	10.0	45.2	17.6	45.2	
Phase	460	kW	3	13	3	20	3	20	4	26	4	26	7	38	
	400	AMPs	3.8	16.3	3.8	25.1	3.8	25.1	5.0	32.6	5.0	32.6	8.8	47.7	
		kW	3	13	3	20	3	20	4	26	4	26	7	46	
	575		3.0	13.1	3.0	20.1	3.0	20.1	4.0	26.1	4.0	26.1	7.0	46.2	

- 1. Factory certified submittals available upon request
- 2. Standard heater kW limits are maximum per unit size and voltage
- 3. Heater should be sized for a maximum leaving air temperature of 104°F

FORWARD CURVED FA

FORWARD CURVED FAN PERFORMANCE DATA

	Linit Cina			00					40					10		
TSP	Unit Size			08					12					16		
[in-wg]	Actual CFM	600	700	800	900	1000	1000	1100	1200	1300	1400	1400	1500	1600	1700	1800
2.4	RPM	-	1	-	-	1746	-	-	•	-	1710	-	1	-	1	-
2.4	BHP	-	-	-	-	0.70	-	-	-	-	1.02	-	-	-	-	-
2.2	RPM	-	-	-	1670	1674	-	-	-	1638	1638	-	-	-	-	1415
2.2	BHP	-	-	-	0.57	0.65	-	-	-	0.87	0.95	-	-	-	-	1.08
2.0	RPM	-	-	-	1594	1598	-	-	-	1561	1568	-	-	-	1349	1353
2.0	BHP	-	-	-	0.52	0.59	-	-	-	0.79	0.88	-	-	-	0.92	0.99
4.0	RPM	-	-	1510	1514	1524	-	-	1481	1485	1494	-	-	1279	1283	1287
1.8	BHP	-	-	0.41	0.47	0.55	-	-	0.66	0.73	0.81	-	-	0.78	0.84	0.91
4.0	RPM	-	-	1425	1430	1446	-	1397	1397	1406	1415	-	1206	1210	1214	1218
1.6	BHP	-	-	0.37	0.43	0.50	-	0.53	0.59	0.66	0.74	-	0.65	0.70	0.76	0.82
4.4	RPM	-	1331	1335	1347	1366	-	1306	1314	1323	1335	1128	1132	1136	1140	1149
1.4	BHP	-	0.28	0.33	0.39	0.45	-	0.47	0.53	0.60	0.67	0.53	0.58	0.63	0.68	0.75
4.0	RPM	-	1235	1242	1259	1283	1209	1216	1225	1236	1249	1048	1052	1057	1067	1077
1.2	BHP	-	0.24	0.29	0.34	0.40	0.37	0.42	0.47	0.53	0.59	0.46	0.51	0.55	0.61	0.67
4.0	RPM	1125	1129	1145	1168	1200	1109	1118	1130	1144	1163	962	969	979	988	1002
1.0	BHP	0.17	0.21	0.25	0.30	0.36	0.32	0.36	0.41	0.47	0.53	0.40	0.44	0.49	0.54	0.60
0.0	RPM	1009	1022	1044	1075	1113	1002	1014	1030	1049	1073	872	882	895	909	923
0.8	BHP	0.14	0.17	0.21	0.26	0.32	0.26	0.31	0.35	0.40	0.47	0.34	0.38	0.42	0.47	0.52
	RPM	884	906	939	979	1024	885	903	926	951	984	777	791	806	822	838
0.6	BHP	0.11	0.14	0.18	0.22	0.28	0.21	0.25	0.30	0.35	0.41	0.28	0.32	0.36	0.40	0.45
Fa	ın Size			0904R					0906R					1008R		'
Coil F	ace Area			2.1					2.7					3.5		
	I @ CFM	286	333		400	470	270	407	444	404	E40	400	400		400	F44
1 1 14	i w Ci w	200	<i>ააა</i>	381	429	476	370	407	444	481	519	400	429	457	486	514
	Unit Size	200	333	20	429	4/6	370	407	30	481	519	400	429	40	480	514
TSP [in-wg]	-	1800	1950		2250	2400	2600	2800		3200	3400	3600	3800		4200	4400
TSP [in-wg]	Unit Size Actual			20					30					40		
TSP	Unit Size Actual CFM		1950	20 2100		2400	2600		30 3000	3200	3400	3600	3800	40 4000	4200	4400
TSP [in-wg]	Unit Size Actual CFM RPM		1950	20 2100		2400 1507	2600		30 3000	3200 1034	3400 1037	3600	3800	40 4000	4200 1021	4400
TSP [in-wg]	Unit Size Actual CFM RPM BHP	1800	1950	20 2100 -	2250	2400 1507 1.60	2600		30 3000	3200 1034 2.01	3400 1037 2.20	3600	3800	4000	4200 1021 2.00	4400 1023 2.15
TSP [in-wg] 2.4 2.2	Unit Size Actual CFM RPM BHP RPM	1800	1950	20 2100	2250 - - 1441	2400 1507 1.60 1446	2600	2800	3000	3200 1034 2.01 992	3400 1037 2.20 996	3600	3800	40 4000 - - 977	4200 1021 2.00 979	4400 1023 2.15 980
TSP [in-wg]	Unit Size Actual CFM RPM BHP RPM BHP	1800	1950	20 2100 - - - -	2250 - - 1441 1.37	2400 1507 1.60 1446 1.49	2600	2800	3000	3200 1034 2.01 992 1.88	3400 1037 2.20 996 2.06	3600	3800	40 4000 - - 977 1.72	4200 1021 2.00 979 1.86	4400 1023 2.15 980 1.99
TSP [in-wg] 2.4 2.2 2.0	Unit Size Actual CFM RPM BHP RPM BHP RPM BHP	1800	1950 - - - - -	20 2100 - - - - 1373	2250 - - 1441 1.37 1377	2400 1507 1.60 1446 1.49 1382	2600	2800	30 3000 - - - - - 945	3200 1034 2.01 992 1.88 949	3400 1037 2.20 996 2.06 952	3600	3800 - - - - - 932	40 4000 - - 977 1.72 933	4200 1021 2.00 979 1.86 934	4400 1023 2.15 980 1.99 937
TSP [in-wg] 2.4 2.2	Unit Size Actual CFM RPM BHP RPM BHP RPM BHP RPM BHP	1800	1950 - - - - -	20 2100 - - - - 1373 1.15	2250 - - 1441 1.37 1377 1.26	2400 1507 1.60 1446 1.49 1382 1.37	2600	2800	30 3000 - - - - 945 1.59	3200 1034 2.01 992 1.88 949 1.75	3400 1037 2.20 996 2.06 952 1.91	3600	3800 - - - - - 932 1.46	4000 - - 977 1.72 933 1.58	4200 1021 2.00 979 1.86 934 1.71	4400 1023 2.15 980 1.99 937 1.85
TSP [in-wg] 2.4 2.2 2.0 1.8	Unit Size Actual CFM RPM BHP RPM BHP RPM BHP RPM RPM RPM RPM	1800	1950 - - - - -	20 2100 - - - 1373 1.15 1305	2250 - 1441 1.37 1377 1.26 1310	2400 1507 1.60 1446 1.49 1382 1.37 1315	2600	2800 - - - - - - - - 896	30 3000 - - - - 945 1.59 899	3200 1034 2.01 992 1.88 949 1.75 903	3400 1037 2.20 996 2.06 952 1.91 906	3600	3800 - - - - - 932 1.46 885	40 4000 - 977 1.72 933 1.58 886	4200 1021 2.00 979 1.86 934 1.71 888	4400 1023 2.15 980 1.99 937 1.85 892
TSP [in-wg] 2.4 2.2 2.0	Unit Size Actual CFM RPM BHP RPM BHP RPM BHP RPM BHP RPM BHP	1800	1950 - - - - - - -	20 2100 - - - 1373 1.15 1305 1.05	2250 - - 1441 1.37 1377 1.26 1310 1.15	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25	2600 - - - - - - -	2800 - - - - - - - - 896 1.33	30 3000 - - - - 945 1.59 899 1.47	3200 1034 2.01 992 1.88 949 1.75 903 1.61	3400 1037 2.20 996 2.06 952 1.91 906 1.76	3600	3800 - - - - 932 1.46 885 1.33	4000 	4200 1021 2.00 979 1.86 934 1.71 888 1.57	4400 1023 2.15 980 1.99 937 1.85 892 1.71
TSP [in-wg] 2.4 2.2 2.0 1.8	Unit Size Actual CFM RPM BHP RPM BHP RPM BHP RPM BHP RPM BHP RPM RPM	1800	1950 - - - - - - - - - - - 1230	20 2100 - - - - 1373 1.15 1305 1.05 1234	2250 - - 1441 1.37 1377 1.26 1310 1.15 1239	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251	2600 844	2800 - - - - - - - - - - - - -	30 3000 - - - - 945 1.59 899 1.47 851	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858	3600 - - - - - - - - - - - - - - - - - -	3800 - - - - - 932 1.46 885 1.33 835	4000 	4200 1021 2.00 979 1.86 934 1.71 888 1.57	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844
TSP [in-wg] 2.4 2.2 2.0 1.8	Unit Size Actual CFM RPM BHP RPM BHP RPM BHP RPM BHP RPM BHP RPM BHP	1800 - - - - - - - - - - -	1950 - - - - - - - - - - - - -	20 2100 - - - 1373 1.15 1305 1.05 1234 0.95	2250 - 1441 1.37 1377 1.26 1310 1.15 1239 1.04	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251 1.16	2600 - - - - - - - - - - - - -	2800 - - - - - - - - - - - - -	30 3000 - - - 945 1.59 899 1.47 851 1.34	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854 1.47	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858 1.60	3600 - - - - - - - - - - - - - - - - - -	3800 - - - - 932 1.46 885 1.33 835 1.20	4000 	4200 1021 2.00 979 1.86 934 1.71 888 1.57 841	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844 1.56
TSP [in-wg] 2.4 2.2 2.0 1.8 1.6	Unit Size Actual CFM RPM BHP RPM BHP RPM BHP RPM BHP RPM BHP RPM BHP RPM RPM	1800 - - - - - - - - - - - - - - - - - -	1950 1230 0.87	20 2100 - - - 1373 1.15 1305 1.05 1234 0.95 1159	2250 - - 1441 1.37 1377 1.26 1310 1.15 1239 1.04 1170	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251 1.16 1182	2600 - - - - - - - - - - - - -	2800 - - - - - - - - - - - - -	30 3000 - - - - 945 1.59 899 1.47 851 1.34 799	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854 1.47 803	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858 1.60 810	3600 - - - - - - - - - - - - -	3800 - - - - 932 1.46 885 1.33 835 1.20 783	4000 	4200 1021 2.00 979 1.86 934 1.71 888 1.57 841 1.43	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844 1.56 794
TSP [in-wg] 2.4 2.2 2.0 1.8	Unit Size Actual CFM RPM BHP	1800 1150 0.70	1950 1230 0.87 1154 0.77	20 2100 - - - 1373 1.15 1305 1.05 1234 0.95 1159 0.85	2250 1441 1.37 1377 1.26 1310 1.15 1239 1.04 1170 0.95	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251 1.16 1182 1.05	2600 - - - - - - - - - - - - -	2800 - - - - - - - - - - - - -	30 3000 - - - 945 1.59 899 1.47 851 1.34 799	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854 1.47 803 1.32	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858 1.60 810	3600 - - - - - - - - - - - - -	3800 - - - - 932 1.46 885 1.33 835 1.20 783 1.08	4000 	4200 1021 2.00 979 1.86 934 1.71 888 1.57 841 1.43 790 1.29	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844 1.56 794
TSP [in-wg] 2.4 2.2 2.0 1.8 1.6 1.4 1.2	Unit Size Actual CFM RPM BHP RPM	1800 - - - - - - - - - - - - -	1950	20 2100 - - - 1373 1.15 1305 1.05 1234 0.95 1159 0.85 1085	2250 1441 1.37 1377 1.26 1310 1.15 1239 1.04 1170 0.95 1097	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251 1.16 1182 1.05	2600 - - - - - - - - - - - - -	2800 - - - - - - - - - - - - -	30 3000 - - - 945 1.59 899 1.47 851 1.34 799 1.21	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854 1.47 803 1.32 752	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858 1.60 810 1.46 759	3600 - - - - - - - - - - - - -	3800 - - - - - - - - - - - - -	4000 	4200 1021 2.00 979 1.86 934 1.71 888 1.57 841 1.43 790 1.29	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844 1.56 794 1.41 743
TSP [in-wg] 2.4 2.2 2.0 1.8 1.6	Unit Size Actual CFM RPM BHP	1800 - - - - - - - - - - - - -	1950 1230 0.87 1154 0.77 1073 0.68	20 2100 - - - 1373 1.15 1305 1.05 1234 0.95 1159 0.85 1085 0.76	2250 1441 1.37 1377 1.26 1310 1.15 1239 1.04 1170 0.95 1097 0.85	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251 1.16 1182 1.05 1114 0.96	2600 - - - - - - - - - - - - -	2800 - - - - - - - - - - - - -	30 3000 - - - 945 1.59 899 1.47 851 1.34 799 1.21 745	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854 1.47 803 1.32 752 1.19	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858 1.60 810 1.46 759 1.31	3600 - - - - - - - - - - - - -	3800 - - - - - 932 1.46 885 1.33 835 1.20 783 1.08 729 0.96	4000 	4200 1021 2.00 979 1.86 934 1.71 888 1.57 841 1.43 790 1.29 737	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844 1.56 794 1.41 743 1.27
TSP [in-wg] 2.4 2.2 2.0 1.8 1.6 1.4 1.2	Unit Size Actual CFM RPM BHP RPM RPM RPM RPM RPM RPM RPM RPM RPM	1800 1150 0.70 1068 0.61 981	1950	20 2100 - - - 1373 1.15 1305 1.05 1234 0.95 1159 0.85 1085 0.76	2250 1441 1.37 1377 1.26 1310 1.15 1239 1.04 1170 0.95 1097 0.85 1024	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251 1.16 1182 1.05 1114 0.96 1042	2600 844 1.09 792 0.98 737 0.87 677	2800 - - - - - - - - - - - - -	30 3000 - - - 945 1.59 899 1.47 851 1.34 799 1.21 745 1.07 689	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854 1.47 803 1.32 752 1.19 697	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858 1.60 810 1.46 759 1.31 705	3600	3800 - - - - 932 1.46 885 1.33 835 1.20 783 1.08 729 0.96 670	4000 	4200 1021 2.00 979 1.86 934 1.71 888 1.57 841 1.43 790 1.29 737 1.16 681	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844 1.56 794 1.41 743 1.27 687
TSP [in-wg] 2.4 2.2 2.0 1.8 1.6 1.4 1.2	Unit Size Actual CFM RPM BHP	1800	1950	20 2100 - - - 1373 1.15 1305 1.05 1234 0.95 1159 0.85 1085 0.76 1006 0.67	2250 1441 1.37 1377 1.26 1310 1.15 1239 1.04 1170 0.95 1097 0.85 1024 0.76	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251 1.16 1182 1.05 1114 0.96 1042 0.86	2600	2800 - - - - - - - - - - - - -	30 3000 	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854 1.47 803 1.32 752 1.19 697 1.05	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858 1.60 810 1.46 759 1.31 705 1.17	3600	3800 - - - - 932 1.46 885 1.33 835 1.20 783 1.08 729 0.96 670 0.83	40 4000 - 977 1.72 933 1.58 886 1.44 837 1.31 787 1.18 732 1.05 676 0.93	4200 1021 2.00 979 1.86 934 1.71 888 1.57 841 1.43 790 1.29 737 1.16 681 1.02	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844 1.56 794 1.41 743 1.27 687 1.12
TSP [in-wg] 2.4 2.2 2.0 1.8 1.6 1.4 1.2 1.0 0.8	Unit Size Actual CFM RPM BHP RPM RPM BHP RPM	1800	1950	20 2100 - - - 1373 1.15 1305 1.05 1234 0.95 1159 0.85 1085 0.76 1006 0.67 926	2250 1441 1.37 1377 1.26 1310 1.15 1239 1.04 1170 0.95 1097 0.85 1024 0.76 947	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251 1.16 1182 1.05 1114 0.96 1042 0.86 969	2600	2800 896 1.33 847 1.21 796 1.09 741 0.97 682 0.84 621	30 3000 - - - 945 1.59 899 1.47 851 1.34 799 1.21 745 1.07 689 0.95 629	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854 1.47 803 1.32 752 1.19 697 1.05 637	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858 1.60 810 1.46 759 1.31 705 1.17 648	3600 - - - - - - - - - - - - -	3800 - - - - 932 1.46 885 1.33 835 1.20 783 1.08 729 0.96 670 0.83 608	40 4000 - 977 1.72 933 1.58 886 1.44 837 1.31 787 1.18 732 1.05 676 0.93 614	4200 1021 2.00 979 1.86 934 1.71 888 1.57 841 1.43 790 1.29 737 1.16 681 1.02 622	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844 1.56 794 1.41 743 1.27 687 1.12 631
TSP [in-wg] 2.4 2.2 2.0 1.8 1.6 1.4 1.2	Unit Size Actual CFM RPM BHP	1800	1950 1230 0.87 1154 0.77 1073 0.68 993 0.60 908 0.52	20 2100 - - - 1373 1.15 1305 1.05 1234 0.95 1159 0.85 1085 0.76 1006 0.67 926 0.59	2250	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251 1.16 1182 1.05 1114 0.96 1042 0.86 969 0.77	2600	2800	30 3000 - - - 945 1.59 899 1.47 851 1.34 799 1.21 745 1.07 689 0.95 629 0.82	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854 1.47 803 1.32 752 1.19 697 1.05 637 0.92	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858 1.60 810 1.46 759 1.31 705 1.17 648 1.03	3600	3800	40 4000 - 977 1.72 933 1.58 886 1.44 837 1.31 787 1.18 732 1.05 676 0.93 614 0.79	4200 1021 2.00 979 1.86 934 1.71 888 1.57 841 1.43 790 1.29 737 1.16 681 1.02 622 0.89	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844 1.56 794 1.41 743 1.27 687 1.12 631 0.99
TSP [in-wg] 2.4 2.2 2.0 1.8 1.6 1.4 1.2 1.0 0.8 0.6	Unit Size Actual CFM RPM BHP RPM	1800	1950 1230 0.87 1154 0.77 1073 0.68 993 0.60 908 0.52 820	20 2100 - - - 1373 1.15 1305 1.05 1234 0.95 1159 0.85 1085 0.76 1006 0.67 926 0.59 842	2250 1441 1.37 1377 1.26 1310 1.15 1239 1.04 1170 0.95 1097 0.85 1024 0.76 947 0.68 865	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251 1.16 1182 1.05 1114 0.96 1042 0.86 969 0.77 889	2600	2800	30 3000 - - - 945 1.59 899 1.47 851 1.34 799 1.21 745 1.07 689 0.95 629 0.82 564	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854 1.47 803 1.32 752 1.19 697 1.05 637 0.92 576 0.79	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858 1.60 810 1.46 759 1.31 705 1.17 648 1.03 590	3600 - - - - - - - - - - - - -	3800 - - - - 932 1.46 885 1.33 835 1.20 783 1.08 729 0.96 670 0.83 608 0.72 541	40 4000 - 977 1.72 933 1.58 886 1.44 837 1.31 787 1.18 732 1.05 676 0.93 614 0.79 550	4200 1021 2.00 979 1.86 934 1.71 888 1.57 841 1.43 790 1.29 737 1.16 681 1.02 622 0.89 559	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844 1.56 794 1.41 743 1.27 687 1.12 631 0.99 570
TSP [in-wg] 2.4 2.2 2.0 1.8 1.6 1.4 1.2 1.0 0.8 0.6 FE	Unit Size Actual CFM RPM BHP	1800	1950 1230 0.87 1154 0.77 1073 0.68 993 0.60 908 0.52 820	20 2100 - - - 1373 1.15 1305 1.05 1234 0.95 1159 0.85 1085 0.76 1006 0.67 926 0.59 842 0.51	2250 1441 1.37 1377 1.26 1310 1.15 1239 1.04 1170 0.95 1097 0.85 1024 0.76 947 0.68 865	2400 1507 1.60 1446 1.49 1382 1.37 1315 1.25 1251 1.16 1182 1.05 1114 0.96 1042 0.86 969 0.77 889	2600	2800	30 3000 - - - 945 1.59 899 1.47 851 1.34 799 1.21 745 1.07 689 0.95 629 0.82 564 0.70	3200 1034 2.01 992 1.88 949 1.75 903 1.61 854 1.47 803 1.32 752 1.19 697 1.05 637 0.92 576 0.79	3400 1037 2.20 996 2.06 952 1.91 906 1.76 858 1.60 810 1.46 759 1.31 705 1.17 648 1.03 590	3600 - - - - - - - - - - - - -	3800 - - - - 932 1.46 885 1.33 835 1.20 783 1.08 729 0.96 670 0.83 608 0.72 541	40 4000 - 977 1.72 933 1.58 886 1.44 837 1.31 787 1.18 732 1.05 676 0.93 614 0.79 550 0.67	4200 1021 2.00 979 1.86 934 1.71 888 1.57 841 1.43 790 1.29 737 1.16 681 1.02 622 0.89 559	4400 1023 2.15 980 1.99 937 1.85 892 1.71 844 1.56 794 1.41 743 1.27 687 1.12 631 0.99 570

Notes

FPM @ CFM

1. Consult Superior Rex for applications at operating conditions not shown above

428.6

2. Fan motor voltage, fan rotation, and fan RPM may require field setting/adjustment

459.2

489.8

400

431

462

492

476

500

524

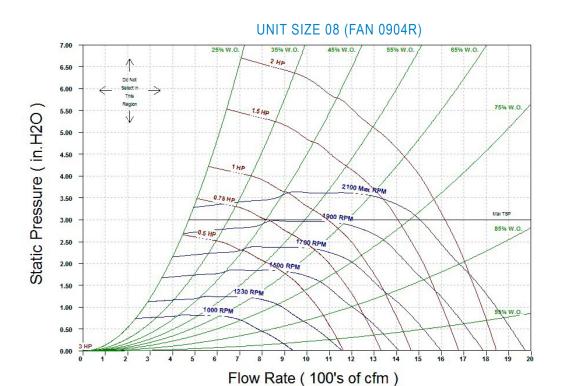
3. Drive losses not included in fan performance

367

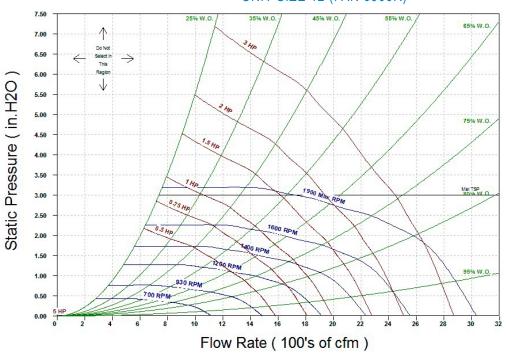
398

SUPERIOR

Fan Performance Curves



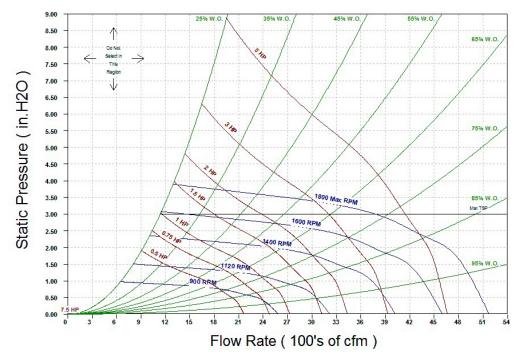
UNIT SIZE 12 (FAN 0906R)



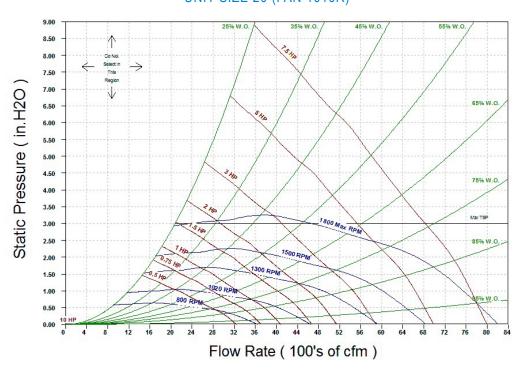


FAN CURVES

UNIT SIZE 16 (FAN 1008R)



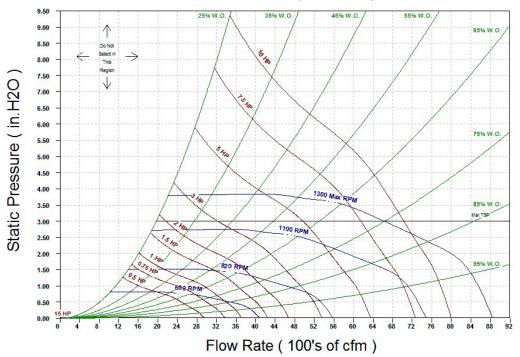
UNIT SIZE 20 (FAN 1010R)



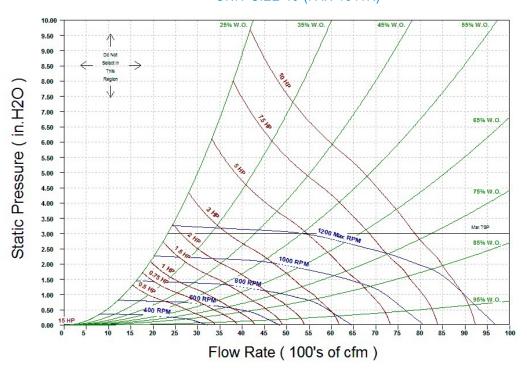
SUPERIOR

FAN CURVES





UNIT SIZE 40 (FAN 1511R)





SSL / SBS Series Design Features

new product offering

DESIGNED FLEXIBILITY

Superior Rex SSL/SBS Belt Drive Blower Coils give maximum flexibility for selection and installation where extreme space restrictions exist. The units are designed with a slant coil and all front access to minimize the space used for installation.

The units are designed to exceed the stringent quality standards of the institutional market, while remaining cost competitive in the light commercial segment of the market.

Superior Rex Belt Drive Blower Coils set the new standards for quality, flexibility, and competitive pricing.

OPTIONAL COMPONENTS

The extensive variety of standard options available on the SSL/SBS units are where you find the versatility to fit any HVAC system designer's needs.

Options include: Mixing boxes with standard low-leak dampers, blow-thru electric heat with or without single point power connection. All electric heat units are listed with ETL as an assembly and carry the cETL label.

High efficiency motors, starters, disconnects and fusing mean easier coordination between mechanical and electrical trades.

Coil options allow for 4 or 6 row cooling coils.

LOWER INSTALLATION COST

All SSL/SBS model blower coils are shipped completely assembled, reducing field installation time and labor. All units are thoroughly inspected and tested prior to shipment, eliminating potential problems at startup. Motor wiring is brought to a junction box and terminated. The junction box is located on the outside of the unit casing, reducing electrical hook-up time.

A wide variety of fan discharge configurations allow for increased flexibility and easier installation on the jobsite, resulting in cost reductions by eliminating expensive elbows, etc.

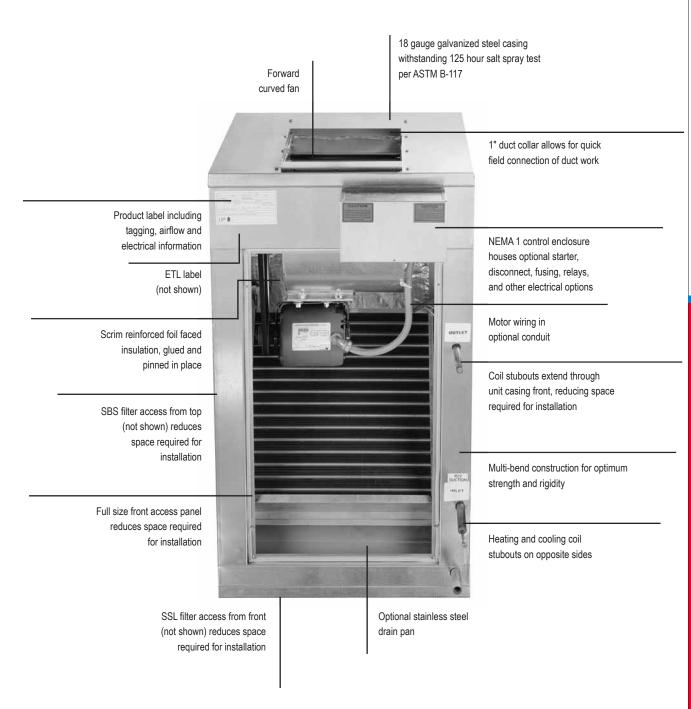
QUALITY PRODUCT

SSL/SBS model blower coils are constructed from 18 gauge galvanized steel. This metal surpasses the ASTM 125 hour salt spray test for corrosion and rust. Insulation is 1 inch thick, 1.6 pound per cubic foot scrim reinforced foil faced insulation, which is glued, pinned and taped for maximum positive adhesion. Insulation complies with UL 181, ASTM-C1071, NFPA 90A and 90B and meets bacteriological standard ASTM-C665 and C1136 for mold, mildew and humidity resistance.

All units, with or without Electric Heat, are cETL listed and labeled. All wiring is in compliance with NEC, assuring safety and quality for the owner.

MODELS - SSL / SBS

Models SSL and SBS blower coils have many standard and optional features which are unique to the industry





Applications

new product offering

APPLICATION CONSIDERATIONS

Models SSL & SBS Belt Drive Blower Coils offer a wide range of application flexibility, while maintaining a simple, easy to install unit design. These units are intended to provide comfort cooling and heating within a small footprint. They may be applied in many types of building structures including schools, office buildings, hospitals, condominiums, assisted living facilities, apartments or stores. Applications can be constant or variable volume.

There are many applications the SBH & SBV product can be utilized. Some examples are listed below.

Constant volume applications:

- » Two-pipe hydronic system for cooling and/or heating
- » Two-pipe hydronic cooling system with electric heat
- » Four-pipe system with dedicated heating and cooling coils
- » Direct Expansion (DX) split systems with hydronic heat
- » Direct Expansion (DX) split systems with electric heat

Variable volume applications:

- » Two-pipe hydronic system for cooling and/or heating
- » Two-pipe hydronic cooling system with electric heat
- » Four-pipe system with dedicated heating and cooling coils

ACOUSTICS

Control of noise within both occupied and unoccupied spaces has become increasingly important to designers and building owners/occupants. Proper consideration must be given to placement of indoor air conditioning units, particularly in the occupied space. Inherent flexibility of the fan and coil combination in the vertical configuration allows application in sound-sensitive areas. In such instances, a fan running at a low speed with a high capacity coil normally yields satisfactory results. It also may be desirable to select a larger nominal capacity unit and operate it at a less than nominal airflow for further acoustic benefit.

Three phase motors are recommended for sound sensitive applications to avoid potential single phase motor hum. Unit operation in the stall region of the fan curve is not recommended since it may cause unsatisfactory noise levels and excessive unit vibration.

INSTALLATION

These floor mounted units can be installed with external vibration isolation on a base rail (SBS) or on a return plenum (SSL) at the corner points. This requires flex connections at the corner brackets, ductwork, electrical connections and piping connections. One of the most important and basic IAQ issues is condensate management. The first step to ensure trouble-free operation is proper installation. It is very important that the unit be mounted high enough so that the condensate drain from the unit may be properly trapped. Please refer to the SSL/SBS IOM Manual for specifics on this issue. As with all HVAC systems, these units should be installed according to all applicable ASHRAE standards, SMACNA and local code requirements.

OPERATING LIMITATIONS

Units must not be operated above maximum fan speed or unit airflow as listed in the Fan Performance section of this catalog. Unit operation at greater than maximum fan speed could drastically reduce bearing life and may result in a catastrophic wheel failure. Operating at greater than the maximum allowable airflow in the cooling mode may result in unsatisfactory operation due to moisture carry over from the coil. In addition, it is often not economical to operate a unit at its maximum fan speed due to the greater motor power requirements.

Units with electric heat should not be operated with leaving air temperature greater than 104°F (40°C), to prevent excessive leaving air temperatures and electric heat limit trips. A hydronic (or steam) coil and electric heat should not be operated simultaneously to prevent excessive leaving air temperatures and limit trips. Electric heat units are equipped with a high limit lockout switch that disables the electric heater if the temperature of the hydronic coil is greater than 104°F (40°C).

Water coils must not be operated above a fluid velocity of 8 ft./sec. to reduce the possibility of velocity induced erosion and flow noise. Water coils must not be operated below a fluid velocity of 1 ft./sec. to prevent degraded coil performance caused by laminar flow. These high or low fluid flow rates may not be included in the AHRI coil certification.

SSL

- » Low-leak dampers with 2" filters
- » Maximum flexibility for selection and installation where extreme space restrictions exist
- » Foil faced fiberglass-insulated cabinets, main incoming-power disconnect (non-fused), fusing (main), magnetic contractors, and fan control package with heater interlock contacts
- » Blow-thru electric heat with single-point power connection
- » Meets all N.E.C. requirements and is cETL listed in compliance with UL/ANSI Std. 1995
- » Hot water, chilled water, steam, and direct expansion coils; cold water/hot water changeover available for all models
- » Inherent flexibility of the fan and coil combination for soundsensitive areas
- » 800 3000 CFM nominal airflows



SSI

AVAILABLE MODEL:

SSL

OVERVIEW

Superior Rex bottom return belt drive blower coils offer a wide range of application flexibility, while maintaining a simple, easy to install unit design. These units are intended to provide comfort cooling and heating with a small footprint. They may be applied in many types of building structures including schools, office buildings, hospitals, condominiums, assisted living facilities, apartments or stores. Applications can be constant or variable volume.

OPTIONAL FEATURES INCLUDE:

Construction

- » Stainless steel drain pan with 1" MPT galvanized pipe outlet
- » External rubber-in-shear or spring type vibration isolators, floor mount
- » Fan discharge arrangements
- » Discharge plenum w/ double deflection discharge grille
- » Access panel with lift and turn fasteners
- » Double wall access panel w/lift and turn fasteners
- » Return plenum with removable panels (SSL only)
- » Base rails with rigging slots factory assembled and installed

Fan Motor and Drive

- » High efficiency motors
- » TEFC motors

Colls

- » 4 and 6 row chilled water or R410 DX coils
- » 1 and 2 row hot water coils



See website for Specifications

- » 1 and 2 row hot water or standard steam coils in discharge coil section only
- » Hot water coil in preheat or reheat position
- » Stainless steel coil casings
- » 0.025" tube wall on water and evaporator coils
- » Auto air vents on water coils

Filters and Filter Rack

- » Side access filter rack (SBS only)
- » 2" pleated filter
- » Spare throwaway or pleated filters

Electrical

- » Motor wiring in conduit
- » Motor starter (contactor with overload for three phase; contactor for single phase), factory installed (mounted and wired)
- » Door interlocking disconnect switch (non-fused) (with main fusing)
- » Hand off auto switch (HOA)
- » Main fusing

Electric Heat Section

» Factory mounted electric heater with single point power connection, ETL listed as an assembly





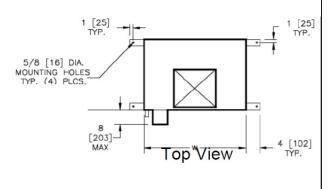
A Participating Corporation in the AHRI 430 Certification Program

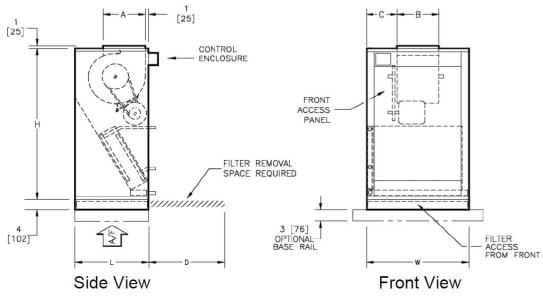


SSL UNIT DIMENSIONS

Dimensions

- All dimensions are inches [millimeters] +/- 1/4" [6mm]. Metric values are soft conversions.
- Motor/drive location may be specified Left or Right Hand. Standard control enclosure location matches motor/drive position.
- 3. Provide sufficient clearance to access electrical control and comply with all applicable codes and ordinances
- 4. Maximum total internal coil rows: 6
- 5. All drawings subject to change without prior notice
- Left hand unit shown; right hand unit has CW and HW piping connections mirrored
- 7. Filter assembly runs the full length of the unit size
- 8. Drawings not for installation purposes

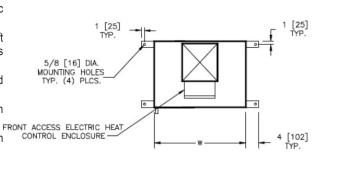


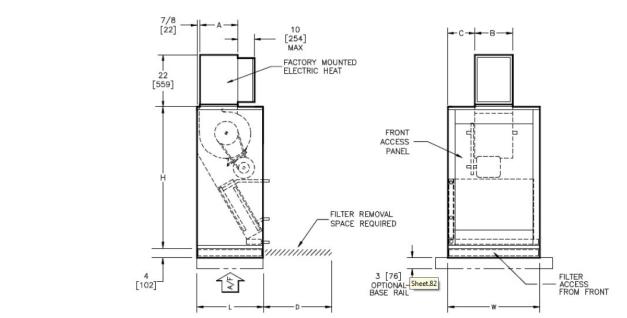


	Dimensions													
Unit Size	Filter Size	Qty	Н	W	L	А	В	С	D					
08	16 x 20 x 2 [406 x 508 x 51]	1	46 [1168]	26 [660]	19 [483]	6 ½ [165]	6 ⁷ /8 [175]	9 9/16 [243]	16 [406]					
12	20 x 20 x 2 [508 x 508 x 51]	1	46 [1168]	26 [660]	21 [533]	7 ½ [190]	8 ¼ [210]	8 ⁷ /8 [225]	20 [508]					
16	24 x 24 x 2 [610 x 610 x 51]	1	54 [1372]	29 [737]	25 [635]	7 ½ [190]	10 ¼ [260]	9 3/8 [238]	24 [610]					
20	24 x 24 x 2 [610 x 610 x 51]	1	54 [1372]	29 [737]	28 [711]	11 ³/8 [289]	13 ¼ [337]	7 7/8 [200]	24 [610]					
25	24 x 24 x 2 [610 x 610 x 51]	1 Each	60 [1524]	39 [991]	28 [711]	13 ½ [343]	12 ⁷ /8 [327]	13 ¹ / ₁₆ [332]	24 [610]					
30	12 x 24 x 2 [305 x 610 x 51]	1 Each	60 [1524]	39 [991]	28 [711]	15 ¼ [387]	15 [381]	12 [305]	24 [610]					

SSL UNIT DIMENSIONS / BLOW-THRU ELECTRIC HEAT

- All dimensions are inches [millimeters] +/- 1/4" [6mm]. Metric values are soft conversions.
- Left hand unit shown. Motor/drive location may be specified Left or Right Hand. Standard control enclosure location matches motor/drive position
- 3. Provide sufficient clearance to access electrical controls and comply with all applicable codes and ordinances
- Optional base rail designed for use with floor mount vibration isolators
- Blow-thru electric heat may not be combined with supply plenum or discharge section





				[Dimensions				
Unit Size	Filter Size	Qty	Н	W	اــ	Α	В	С	D
08	16 x 20 x 2 [406 x 508 x 51]	1	46 [1168]	26 [660]	19 [483]	8 7/8 [226]	11 ⁷ /8 [302]	7 1/16 [180]	16 [406]
12	20 x 20 x 2 [508 x 508 x 51]	1	46 [1168]	26 [660]	21 [533]	8 7/8 [226]	11 ⁷ /8 [302]	7 1/16 [180]	20 [508]
16	24 x 24 x 2 [610 x 610 x 51]	1	54 [1372]	29 [737]	25 [635]	10 ⁷ /8 [277]	12 [305]	8 ½ [216]	24 [610]
20	24 x 24 x 2 [610 x 610 x 51]	1	54 [1372]	29 [737]	28 [711]	13 ⁷ / ₈ [353]	14 [356]	7 ½[190]	24 [610]
25	24 x 24 x 2 [610 x 610 x 51]	1 Each	60 [1524]	39 [991]	28 [711]	13 ⁷ /8 [353]	16 5/8 [422]	11 ¹ / ₁₆ [281]	24 [610]
30	12 x 24 x 2 [305 x 610 x 51]	1 Each	60 [1524]	39 [991]	28 [711]	15 5/8 [397]	16 5/8 [422]	11 ¹ /16 [281]	24 [610]

TOUGH,



Horizontal & Vertical Belt Drives (continued)

new product offering

SBS

- » Low-leak dampers with 2" filters
- » Floor-mounted unit with external vibration isolation on a base rail
- » Maximum flexibility for selection and installation where extreme space restrictions exist
- » Foil faced fiberglass-insulated cabinets, main incoming-power disconnect (non-fused), fusing (main), magnetic contractors, and fan control package with heater interlock contacts
- » Blow-thru electric heat with single-point power connection
- » Meets all N.E.C. requirements and is cETL listed in compliance with UL/ANSI Std. 1995
- » Hot water, chilled water, steam, and direct expansion coils; cold water/hot water changeover available for all models
- » Inherent flexibility of the fan and coil combination for soundsensitive areas
- » 800 3000 CFM nominal airflows



SBS

AVAILABLE MODEL:

OVERVIEW

Superior Rex rear return belt drive blower coils offer a wide range of application flexibility, while maintaining a simple, easy to install unit design. These units are intended to provide comfort cooling and heating with a small footprint. They may be applied in many types of building structures including schools, office buildings, hospitals, condominiums, assisted living facilities, apartments or stores. Applications can be constant or variable volume.

OPTIONAL FEATURES INCLUDE:

Construction

- » Stainless steel drain pan with 1" MPT galvanized pipe outlet
- » External rubber-in-shear or spring type vibration isolators, floor
- » Fan discharge arrangements
- » Discharge plenum w/ double deflection discharge grille
- » Access panel with lift and turn fasteners
- » Double wall access panel w/lift and turn fasteners
- » Return plenum with removable panels (SSL only)
- » Base rails with rigging slots factory assembled and installed

Fan Motor and Drive

- » High efficiency motors
- » TFFC motors

Coils

- » 4 and 6 row chilled water or DX coils
- » 1 and 2 row hot water coils
- » 1 and 2 row hot water or standard steam coils in discharge coil section only



See website for Specifications

- » Hot water coil in preheat or reheat position
- » Stainless steel coil casings
- » 0.025" tube wall on water and evaporator coils
- » Auto air vents on water coils

Filters and Filter Rack

- » Side access filter rack (SBS only)
- » 2" pleated filter
- » Spare throwaway or pleated filters

Inlet Damper Section

- » Factory assembled and installed
- » Heavy gauge galvanized steel formed blade dampers
- » Low-leak dampers with extruded vinyl blade seals and flexible metal jamb seals
- Parallel blade operation
- » Interconnecting damper linkage





Electrical

- » Motor wiring in conduit
- » Motor starter (contactor with overload for three phase; contactor for single phase), factory installed (mounted and wired)
- » Door interlocking disconnect switch (non-fused) (with main fusing)
- » Hand off auto switch (HOA)
- » Main fusing

Electric Heat Section

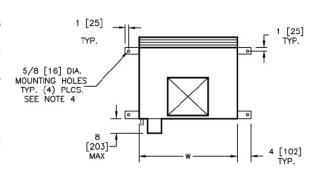
» Factory mounted electric heater with single point power connection, ETL listed as an assembly

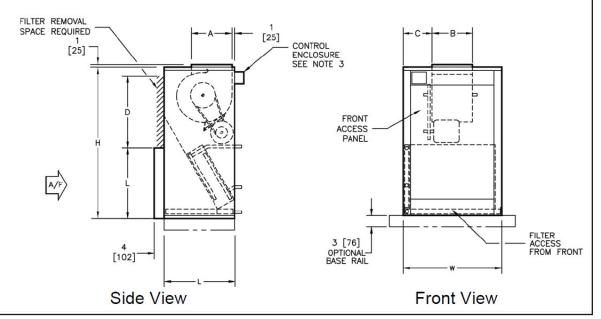


SBS UNIT DIMENSIONS

Dimensions

- All dimensions are inches [millimeters] +/- 1/4" [6mm]. Metric values are soft conversions.
- Motor/drive location may be specified Left or Right Hand. Standard control enclosure location matches motor/drive position.
- 3. Provide sufficient clearance to access electrical control and comply with all applicable codes and ordinances
- 4. Maximum total internal coil rows: 6
- 5. All drawings subject to change without prior notice
- Left hand unit shown; right hand unit has CW and HW piping connections mirrored
- 7. Filter assembly runs the full length of the unit size
- 8. Drawings not for installation purposes

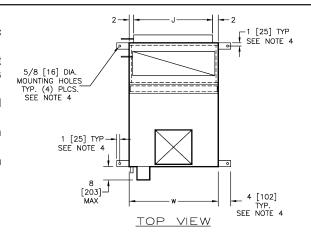


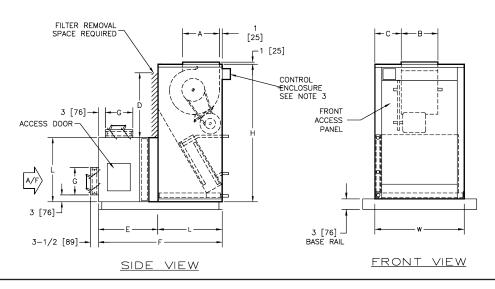


				Г	Dimensions				
Unit Size	Filter Size	Qty	Н	W	L	А	В	С	D
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12	20 x 20 x 2 [508 x 508 x 51]	1	46 [1168]	26 [660]	21 [533]	7 ½ [190]	8 ¼ [210]	8 7/8 [225]	20 [508]
16	24 x 24 x 2 [610 x 610 x 51]	1	54 [1372]	29 [737]	25 [635]	7 ½ [190]	10 ¼ [260]	9 ³ /8 [238]	24 [610]
20	24 x 24 x 2 [610 x 610 x 51]	1	54 [1372]	29 [737]	28 [711]	11 ³/8 [289]	13 ¼ [337]	7 7/8 [200]	24 [610]
25	24 x 24 x 2 [610 x 610 x 51]	1 Each	60 [1524]	39 [991]	28 [711]	16 [406]	12 ⁷ /8 [327]	13 ¹ / ₁₆ [332]	24 [610]
30	12 x 24 x 2 [305 x 610 x 51]	1 Each	60 [1524]	39 [991]	28 [711]	16 [406]	15 [381]	12 [305]	24 [610]

SBS UNIT DIMENSIONS / INLET DAMPER SECTION

- All dimensions are inches [millimeters] +/- 1/4" [6mm]. Metric values are soft conversions.
- Left hand unit shown. Motor/drive location may be specified Left or Right Hand. Standard control enclosure location matches motor/drive position
- 3. Provide sufficient clearance to access electrical controls and comply with all applicable codes and ordinances
- 4. Optional base rail designed for use with floor mount vibration isolators
- Blow-thru electric heat may not be combined with supply plenum or discharge section





	Dimensions												
Unit Size	Filter Size	Qty	Н	W	L	А	В	С	D				
08	16 x 20 x 2 [406 x 508 x 51]	1	46 [1168]	26 [660]	19 [483]	8 7/8 [226]	11 ⁷ /8 [302]	7 1/16 [180]	16 [406]				
12	20 x 20 x 2 [508 x 508 x 51]	1	46 [1168]	26 [660]	21 [533]	8 7/8 [226]	11 ⁷ /8 [302]	7 1/16 [180]	20 [508]				
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Coil and Filter Data

COIL FACE AREA AND FILTER DATA

Unit Size	Internal Cooling And Heating Coils	Discharge Section Heating Coil	2" Filters (Quantity) and Size	Filter Face Area
08	2.1 [0.20]	2.1 [0.20]	(1) 16 x 20 x 2 [406 x 508 x 51]	2.2 [0.20]
12	2.8 [0.26]	2.1 [0.20]	(1) 20 x 20 x 2 [508 x 508 x 51]	2.8 [0.26]
16	3.6 [0.33]	3.2 [0.30]	(1) 24 x 24 x 2 [610 x 610 x 51]	4.0 [0.37]
20	4.8 [0.45]	3.2 [0.30]	(1) 24 x 24 x 2 [610 x 610 x 51]	4.0 [0.37]
25	5.7 [0.53]	4.6 [0.43]	(1) 24 x 24 x 2 [610 x 610 x 51] (1) 12 x 24 x 2 [305 x 610 x 51]	6.0 [0.56]
30	6.8 [0.63]	5.7 [0.53]	(1) 24 x 24 x 2 [610 x 610 x 51] (1) 12 x 24 x 2 [305 x 610 x 51]	6.0 [0.56]

Notes:

- 1. Standard filters are 2" throwaway; optional filters are 2" pleated
- 2. Filter sizes are nominal and standard size, measured in inches [millimeters]
- 3. Coil and filter face areas are measured in square feet [square meters]

NOMINAL COIL CONNECTION SIZES

						Coil Ty	rpe					
Unit		W	ater			Ste	Refrigerant					
Size	1 Row	2 Row	4 Row	6 Row	1 F	Row	2 F	Row	4 F	Row	6 F	Row
	I KOW	2 NOW	4 NOW	0 ROW	STM.	COND.	STM.	COND.	Liquid	Suction	Liquid	Suction
08	⁵ /8 [16]	5/8 [16]	⁷ /8 [22]	⁷ /8 [22]	1 ¹ /8 [29]	⁷ /8 [22]	1 ¹ /8 [29]	⁷ /8 [22]	⁵ /8 [16]	5/8 [16]	⁵ /8 [16]	⁵ /8 [16]
12	⁵ /8 [16]	⁵ /8 [16]	⁷ /8 [22]	⁷ /8 [22]	1 ¹ /8 [29]	⁷ /8 [22]	1 ¹ /8 [29]	⁷ /8 [22]	⁵ /8 [16]	⁷ /8 [22]	⁵ /8 [16]	⁷ /8 [22]
16	⁵ /8 [16]	⁵ /8 [16]	⁷ /8 [22]	1 ¹ /8 [29]	1 ¹ /8 [29]	⁷ /8 [22]	1 ³ /8 [35]	1 ¹ /8 [29]	⁵ /8 [16]	⁷ /8 [22]	⁵ /8 [16]	⁷ /8 [22]
20	⁵ /8 [16]	5/8 [16]	⁷ /8 [22]	1 ¹ /8 [29]	1 ³ /8 [35]	1 ¹ /8 [29]	1 ³ /8 [35]	1 ¹ /8 [29]	⁵ /8 [16]	⁷ /8 [22]	5/8 [16]	⁷ /8 [22]
25	⁵ /8 [16]	⁷ /8 [22]	1 ¹ /8 [29]	1 ³ /8 [35]	1 ³ /8 [35]	1 ¹ /8 [29]	1 ⁵ /8 [41]	1 ¹ /8 [29]	⁵ /8 [16]	⁷ /8 [22]	5/8 [16]	1 ¹ /8 [29]
30	⁷ /8 [22]	⁷ /8 [22]	1 ¹ /8 [29]	1 ³ /8 [35]	1 ⁵ /8 [41]	1 ¹ /8 [29]	1 ⁵ /8 [41]	1 ¹ /8 [29]	⁵ /8 [16]	1 ¹ /8 [29]	5/8 [16]	1 ¹ /8 [29]

- 1. Water coils are based on Standard GPM Circuiting. Consult Superior Rex for applications requiring special circuiting
- 2. For other selections, refer to RAMP
- 3. Refrigerant coil connection sizes for single circuit coils and may vary with application. Contact Superior Rex for double circuit coils
- 4. All dimensional data is outside diameter (O.D.), measured in inches [millimeters]

new product offering

Performance Data

COIL DATA

COILS

Superior Rex manufactures hot water, chilled water, direct expansion (DX), and standard steam coils for specific application with all Model SSL/SBS blower coils. AHRI 410 certified and labeled, and strict on-site

Standard Features

- » Designed, manufactured and tested by Superior Rex
- » AHRI 410 certified and labeled
- » ½" O.D. seamless copper tubes
- » High efficiency aluminum fin surface for optimizing heat transfer, pressure drop and carryover
- » Mechanically expanded copper tubes leak tested to a minimum 450 PSIG air pressure under water
- » Manual air vent plug on all water coils
- » Copper ODM sweat connections
- » 300 PSIG working pressure at 200°F
- » Evaporator coils are factory sealed and charged with a minimum of 5 PSIG nitrogen or refrigerated dry air
- » Steam coils rated at 15 PSIG maximum operating pressure at above 35°F
- » 0.016" tube wall thickness (0.025" on steam)

inspection before, during, and after installation guarantees the highest quality and performance available.

Optional Features

- » Stainless steel coil casings
- » Automatic air vents on water coils
- » Elevated working pressure ratings
- » Heat pump compatible cooling coils
- » Double circuit DX coils (intertwined with 50-50 split)
- » 0.025" tube wall thickness



COMPONENT STATIC PRESSURE LOSS - INCHES W.G.

	Unit Size Nominal Cabinet		Filter				Inlet	Electric			
Unit Size			Filter (2" T/A)		Inte	rnal		Exte	ernal	Damper	Heat
	OI W		(2 177)	1 Row	2 Row	4 Row	6 Row	1 Row	2 Row	Section	Section
08	800	0.09	0.25	0.05	0.10	0.31	0.46	0.05	0.10	0.04	0.05
12	1200	0.09	0.25	0.06	0.12	0.37	0.55	0.10	0.19	0.06	0.05
16	1600	0.10	0.25	0.06	0.12	0.38	0.58	0.08	0.15	0.09	0.05
20	2000	0.11	0.25	0.06	0.11	0.35	0.52	0.11	0.22	0.05	0.05
25	2500	0.12	0.25	0.06	0.12	0.38	0.57	0.09	0.17	0.06	0.05
30	3000	0.14	0.25	0.06	0.12	0.38	0.57	0.08	0.16	0.08	0.05

- 1. All static pressures are at nominal CFM
- 2. Coil static pressure for standard coil, 10FPI at 80/67 EAT and 45° EWT with 10° rise
- 3. For 12FPI, refer to RAMP
- 4. Filter static pressure based on 50% loaded filter
- 5. If pleated filters are used in lieu of throwaway, the filter static pressure loss is 0.35



Performance Data

Electric Heat

Standard Features

- » Galvanized steel casing
- » Flanged construction for direct unit mounting, in blow-thru configuration
- » Listed for zero clearance installation
- » Meets National Electrical Code requirements
- » Ni-Chrome wire in ceramic insulators
- » Stainless steel element terminals and hardware
- » Element support brackets on maximum 3 ½" centers
- » Solid cover with continuous full height hinge
- » Overtemperature protection
- » All internal wiring rated for 105°C minimum
- » Airflow switch
- » Incoming line power distribution block
- » ETL Listed in compliance with UL/ANSI Standard 1995
- » Single point power connection
- » Heater factory mounted to unit with ETL listing as an assembly

Optional Features

- » Door interlocking disconnect switch
- » Fusing (main) (per stage)
- » Magnetic contactors wired for disconnecting operation
- » Fan control package with heater interlock contacts (required for single point power connection)

Heater AMP	Calculation
Voltage	AMPs per kW
115/1	8.70
208/1	4.81
230/1	4.35
277/1	3.61
208/3	2.78
230/3	2.51
460/3	1.26
575/3	1.00



Electrical Calculations Information

- 1. Contact Superior Rex for MCA and/or MOP calculations
- 2. Non-Fused Door Interlock Disconnect Switch shall be sized according to MCA
- 3. Fused Door Interlock Disconnect Switch and Main Fusing shall be sized according to MOP

								Electric Ho	eat KW Lim	its				
Linit Val	toas And	Dhasa						Un	it Size					
Unit voi	tage And	Phase	()8	12		1	16		0	2	5	;	30
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
	115	kW	3	5	3	5	3	5	4	5				
	115	AMPs	26.1	43.5	26.1	43.5	26.1	43.5	34.8	43.5				
	208	kW	3	9	3	9	3	9	4	9	6	9	6	9
Single	200	AMPs	14.4	43.3	14.4	43.3	14.4	43.3	19.2	43.3	28.8	43.3	28.8	43.3
Phase	230	kW	3	11	3	11	3	11	4	11	6	11	6	11
	230	AMPs	13.0	47.8	13.0	47.8	13.0	47.8	17.4	47.8	26.1	47.8	26.1	47.8
	277	kW	3	13	3	13	3	13	4	13	6	13	6	13
	211	AMPs	10.8	46.9	10.8	46.9	10.8	46.9	14.4	46.9	21.7	46.9	21.7	46.9
	208	kW	3	13	3	16	3	16	4	16	4	16	4	16
	200	AMPs	8.3	36.1	8.3	44.4	8.3	44.4	11.1	44.4	11.1	44.4	11.1	44.4
	220	kW	3	13	3	18	3	18	4	18	4	18	4	18
Three	230	AMPs	7.5	32.6	7.5	45.2	7.5	45.2	10.0	45.2	10.0	45.2	10.0	45.2
Phase		kW	3	13	3	20	3	20	4	26	4	26	4	26
		AMPs	3.8	16.3	3.8	25.1	3.8	25.1	5.0	32.6	5.0	32.6	5.0	32.6
		kW	3	13	3	20	3	20	4	26	4	26	4	26
		AMPs	3.0	13.1	3.0	20.1	3.0	20.1	4.0	26.1	4.0	26.1	4.0	26.1

- 1. Electric heat sections may be shipped separate for field installation to unit
- 2. Factory certified submittals available upon request
- 3. Standard heater kW limits are maximum per unit size and voltage
- 4. Heater should be sized for a maximum leaving air temperature of 104°F

ELECTRIC DATA

MOTOR ELECTRICAL DATA

	Maximum Motor Amperage										
Horsepower			Voltage								
	115/1	208/1	230/1	277/1	208/3	230/3	460/3	575/3			
1/3	6.3	3.5	3.2	2.6	1.7	1.5	0.8	-			
1/2	7.8	4.3	3.9	3.6	2.2	2.1	1.1	0.9			
3/4	10.6	5.4	5.3	5.0	3.2	3.0	1.5	1.2			
1	15.0	8.3	7.5	5.5	4.0	3.6	1.8	1.4			
1 1/2	-	-	-	-	5.3	5.0	2.5	1.9			
2	-	-	-	-	7.0	6.4	3.2	2.5			
3	-	-	-	-	9.1	9.0	4.5	3.2			

Notes:

- 1. Actual motor nameplate AMPs may vary, but will not exceed values shown
- 2. Consult Superior Rex for applications requiring special motors

UNIT WEIGHT DATA

Comp	onont						
Comp	onent	08	12	16	20	25	30
Base	Base Unit		131 [60]	160 [73]	167 [76]	231 [105]	236 [107]
Damper	Damper Section		53 [24]	59 [27]	73 [33]	91 [41]	91 [41]
Blow-thru El	Blow-thru Electric Heater		42 [19]	42 [19]	50 [23]	55 [25]	55 [25]
Discharge (Discharge Coil Section Supply Plenum		37 [17]	49 [22]	53 [24]	76 [35]	80 [36]
Supply			26 [12]	35 [16]	38 [17]	76 [35]	76 [35]
Return Ple	Return Plenum (SSL)		30 [14]	33 [15]	35 [16]	44 [20]	44 [20]
	1 Row - Dry	12 [5]	14 [6]	17 [8]	21 [10]	23 [10]	27 [12]
	1 Row - Wet	14 [6]	17 [8]	21 [10]	26 [12]	28 [13]	34 [15]
	2 Row - Dry	17 [8]	21 [10]	26 [12]	32 [15]	37 [17]	43 [20]
Coil	2 Row - Wet	21 [10]	27 [12]	33 [15]	42 [19]	48 [22]	56 [25]
Rows	4 Row - Dry	29 [13]	36 [16]	45 [20]	57 [26]	65 [30]	76 [35]
	4 Row - Wet	37 [17]	47 [21]	58 [26]	75 [34]	86 [39]	101 [46]
	6 Row - Dry	40 [18]	51 [23]	64 [29]	81 [37]	93 [42]	109 [50]
	6 Row - Wet	52 [24]	66 [30]	84 [38]	109 [50]	124 [56]	146 [66]

Notes:

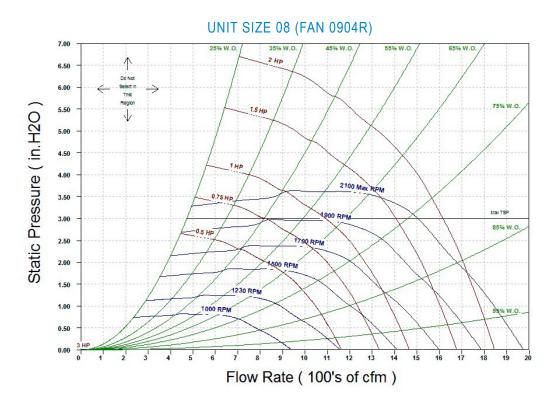
- 1. Unit weight data is shipping weight in pounds [kilograms]
- 2. Discharge section includes a 2 row coil

MOTOR/DRIVE WEIGHT DATA

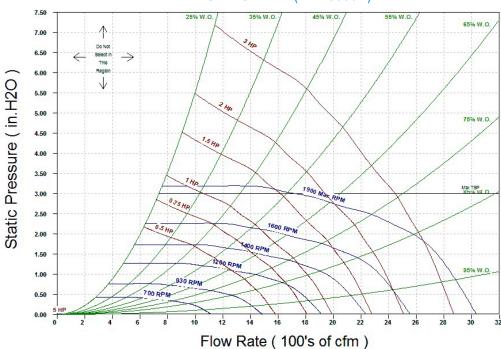
Time		Motor HP										
Туре	1/3	1/2	3/4	1	1 1/2	2	3					
Single Phase	37 [17]	37 [17]	45 [20]	47 [21]	-	-	-					
Three Phase	34 [15]	34 [15]	40 [18]	43 [20]	46 [21]	53 [24]	81 [37]					

- 1. Includes motor, pulleys, belts, and motor base
- 2. Motor/drive weight data is shipping weight in pounds [kilograms]

Fan Performance Curves



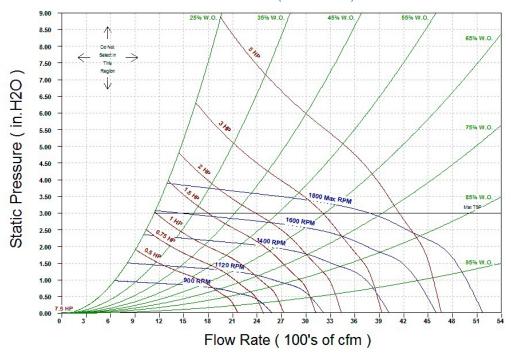
UNIT SIZE 12 (FAN 0906R)



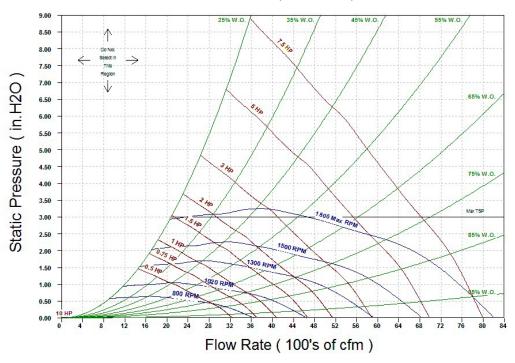
SUPERIOR

FAN CURVES

UNIT SIZE 16 (FAN 1008R)

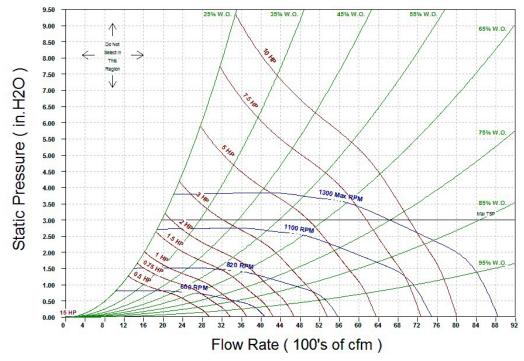


UNIT SIZE 20 (FAN 1010R)



FAN CURVES





UNIT SIZE 30 (FAN 1511R)

