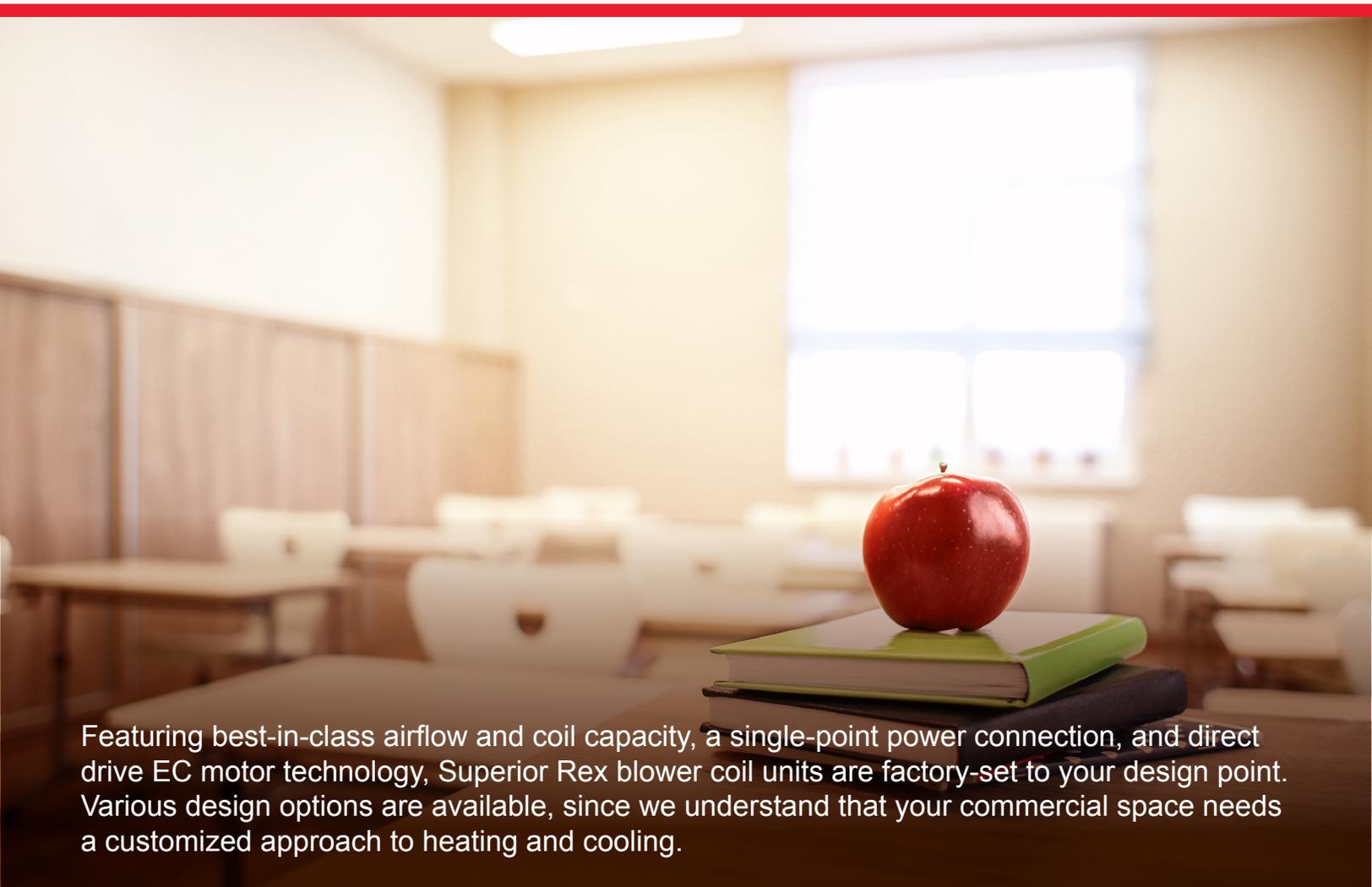


SB SERIES: DIRECT DRIVE BLOWER COILS



Featuring best-in-class airflow and coil capacity, a single-point power connection, and direct drive EC motor technology, Superior Rex blower coil units are factory-set to your design point. Various design options are available, since we understand that your commercial space needs a customized approach to heating and cooling.



SBHD Horizontal Direct Drive Blower Coil

CFM Range 250 to 5,000	Max ESP Up to 3.0"	Max Coil Rows Up to 8 rows	Highly efficiency EC motor technology, class leading airflow, coil capacity and pressure capabilities with multiple motor control options
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SBVD Vertical Direct Drive Blower Coil

CFM Range 250 to 5,000	Max ESP Up to 3.0"	Max Coil Rows Up to 8 rows	Mixing boxes with low leak dampers, a wide variety of fan discharge configurations increasing flexibility and making installation easier
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SB SERIES: DIRECT DRIVE BLOWER COILS

STANDARD FEATURES*

Construction

- Galvanized steel cabinet construction, minimum 18 gauge.
- 1" thick fiberglass insulation.
- 1" supply duct collars.
- Gasketed, removable access panels sized for easy handling.
- IAQ galvanized steel drain pan (not included with heating only units).
- Left and right hand arrangement.

Fan Assemblies

- Forward curved (double width, double inlet) fans.
- Statically and dynamically balanced.
- Solid steel shafting.

Fan Motor and Drive

- Directly driven motor and blower.
- Electronically commutated single and three phase motors with electronic protection.

Electrical Control

- Single speed motor controls accessible from exterior of control enclosure.
- Three different control options to choose from:
 - » Variable single-speed with manual adjustment.
 - » Variable multi-speed with manual adjustment.
 - » Proportional speed (2-10VDC, 0-10VDC or 4-20mA remote signal) with external adjustment.

Coils

- Coils are designed, manufactured and tested by (Superior Rex).
- AHRI 410 certified and labeled.
- 1/2" O.D. seamless copper tubes.
- High efficiency aluminum surface for optimizing heat transfer, pressure drop and carryover.
- Mechanically expanded copper tubes leak tested to a minimum 450 PSIG air pressure underwater.
- 450 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).

Filters and Filter Rack

- Hinged side access flat filter rack.
- Standard size 2" nominal throwaway filters.
- Filter rack designed to accept 2" filters.

Electrical

- Fan motor wired and terminated to J-Box.
- All units cETLus listed in compliance with UL/ANSI Standard 1995.

OPTIONAL FEATURES*

Construction

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

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.

Piping Packages

- 1/2", 3/4", 1", 1 1/4", 1 1/2" 2-way and 3-way, normally closed, two position electric motorized valves.
- 1/2", 3/4", 1" piping packages factory-assembled and shipped loose with unions for field installation.
- 1 1/4" and 1 1/2" piping packages ship as parts kit with instructions for field assembly and installation.
- Isolation ball valves with memory stop.
- 24V floating point modulating control valves.
- 0-10V proportional control valves.
- Fixed (FC) and adjustable (PICV) flow control devices.
- Y-strainers.
- P/T ports.

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.

Electrical

- Door interlocking disconnect switch (non-fused).
- Hand-Off-Auto (HOA) switch.
- Main fusing.

Electrical Heat Section

- Factory mounted electric heater with single point power.
- Connection, cETLus listed as an assembly.

* See individual models for their exact set of available features.