

KBHD / KBVD DIRECT DRIVE BLOWER COILS



Providing you with air equipment solutions and expertise.

Designed to meet or exceed the stringent quality standards of the institutional market, while remaining cost competitive in the light commercial market; the Krueger direct drive blower coils also bring the flexibility and versatility needed to fit the needs of any HVAC specifier or designer



KBHD Horizontal Direct Drive Blower Coil

CFM Range	Max ESP	Max Coil Rows
250 to 5,000	Up to 3.0"	Up to 8 rows

Highly efficiency EC motor technology, class leading airflow, coil capacity and pressure capabilities with multiple motor control options



KBVD Vertical Direct Drive Blower Coil

CFM Range	Max ESP	Max Coil Rows
250 to 5,000	Up to 3.0"	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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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 Krueger
- 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 junction 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 1/4" 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 1/4" 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.