

TBH SERIES

DIRECT DRIVE BLOWER COILS

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



TBHD

- Horizontal Direct Drive Blower Coil
- CFM Range: 200 - 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



TBVD

- Vertical Direct Drive Blower Coil
- CFM Range: 200 - 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

BLOWER COILS:

HORIZONTAL & VERTICAL DIRECT DRIVE

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 Assembly

- 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 (Titus)
- 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.