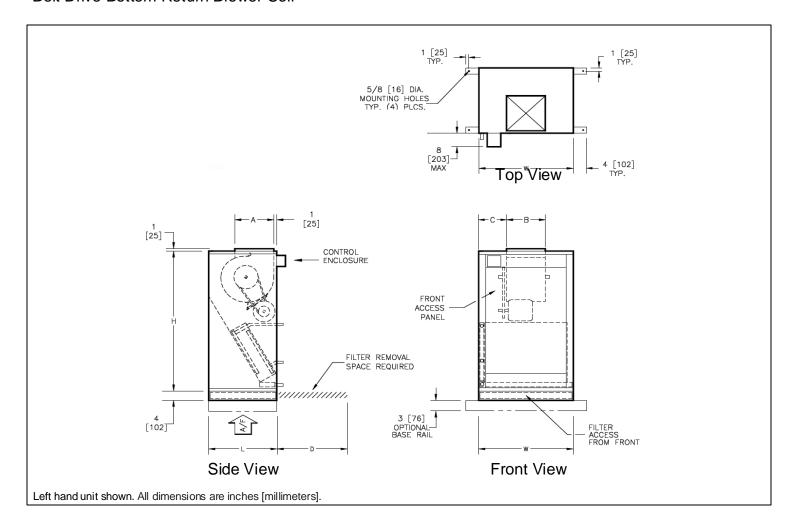


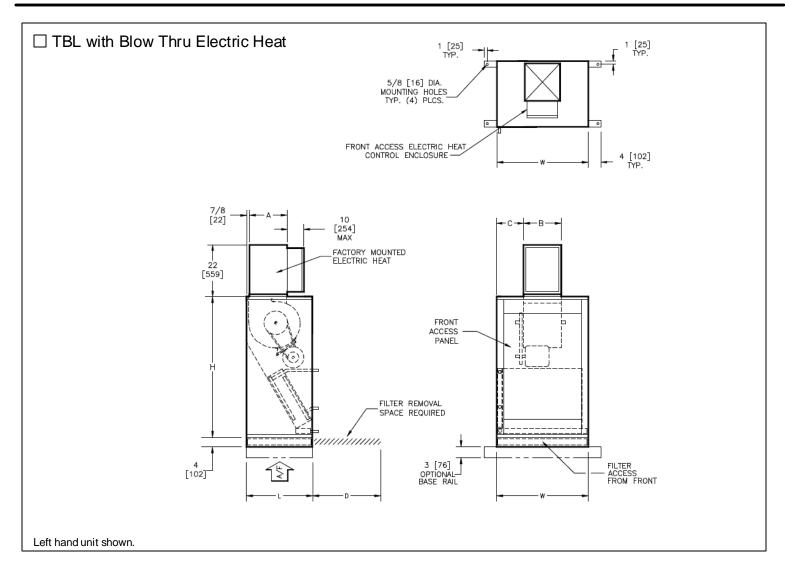
TBL

Belt Drive Bottom Return Blower Coil



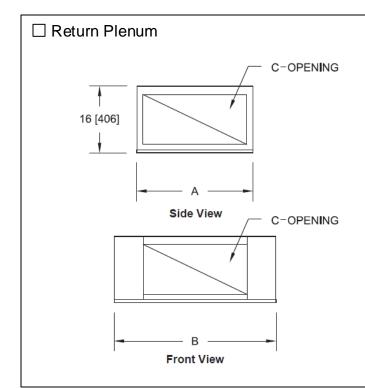
| Unit Size | Filter Size | Quantity | Н | W | L | А | В | С | D |
|-----------|-------------------------|----------|--------------|-------------|-------------|-----------------|-----------------|------------------|-------------|
| 08 | 16x20x2 [406x508x51] | 1 | 46 [1168] | 26 [660] | 19 [483] | 6 ½ [165] | 6 7/8 [175] | 9 9/16 [243] | 16 [406] |
| 12 | 20x20x2 [508x508x51] | 1 | 46 [1168] | 26 [660] | 21 [533] | 7 ½ [190] | 8 ¼ [210] | 8 7/8 [225] | 20 [508] |
| 16 | 24x24x2 [610x610x51] | 1 | 54 [1372] | 29 [737] | 25 [635] | 7 ½ [190] | 10 ¼ [260] | 9 3/8 [238] | 24 [610] |
| 20 | 24x24x2 [610x610x51] | 1 | 54 [1372] | 29 [737] | 28 [711] | 11 3/8 [289] | 13 ¼ [337] | 7 7/8 [200] | 24 [610] |
| 25 | 24x24x2 [610x610x51] | 1 each | 60 [1524] | 39 [991] | 28 [711] | 13 1/2 [343] | 12 7/8 [327] | 13 1/16 [332] | 24 [610] |
| 30 | 12x24x2 [305x610x51] | 1 each | 60 [1524] | 39 [991] | 28 [711] | 15 1/4 [387] | 15 [381] | 12 [305] | 24 [610] |





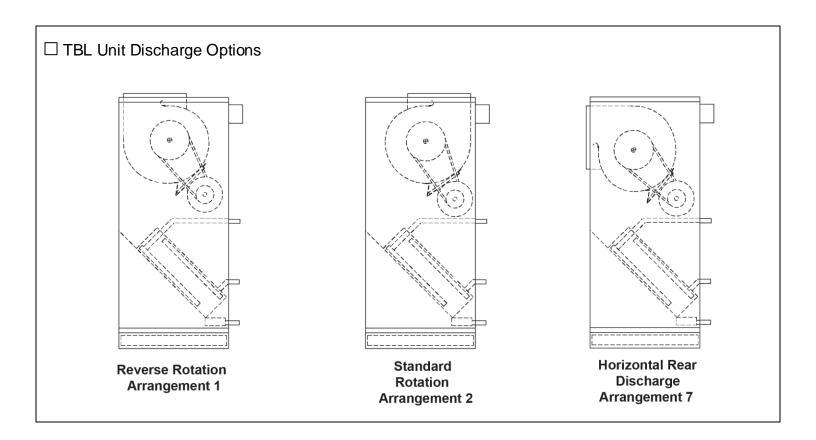
| Unit Size | Filter Size | Quantity | Н | W | L | А | В | С | D |
|-----------|-------------------------|----------|--------------|-------------|-------------|-----------------|-----------------|------------------|-------------|
| 08 | 16x20x2 [406x508x51] | 1 | 46 [1168] | 26 [660] | 19 [483] | 8 7/8 [226] | 11 7/8 [302] | 7 1/16 [180] | 16 [406] |
| 12 | 20x20x2 [508x508x51] | 1 | 46 [1168] | 26 [660] | 21 [533] | 8 7/8 [226] | 11 7/8 [302] | 7 1/16 [180] | 20 [508] |
| 16 | 24x24x2 [610x610x51] | 1 | 54 [1372] | 29 [737] | 25 [635] | 10 7/8 [277] | 12 [305] | 8 ½ [216] | 24 [610] |
| 20 | 24x24x2 [610x610x51] | 1 | 54 [1372] | 29 [737] | 28 [711] | 13 7/8 [353] | 14 [356] | 7 ½ [190] | 24 [610] |
| 25 | 24x24x2 [610x610x51] | 1 each | 60 [1524] | 39 [991] | 28 [711] | 13 7/8 [353] | 16 5/8 [422] | 11 1/16 [281] | 24 [610] |
| 30 | 12x24x2 [305x610x51] | 1 each | 60 [1524] | 39 [991] | 28 [711] | 15 5/8 [397] | 16 5/8 [422] | 11 1/16 [281] | 24 [610] |



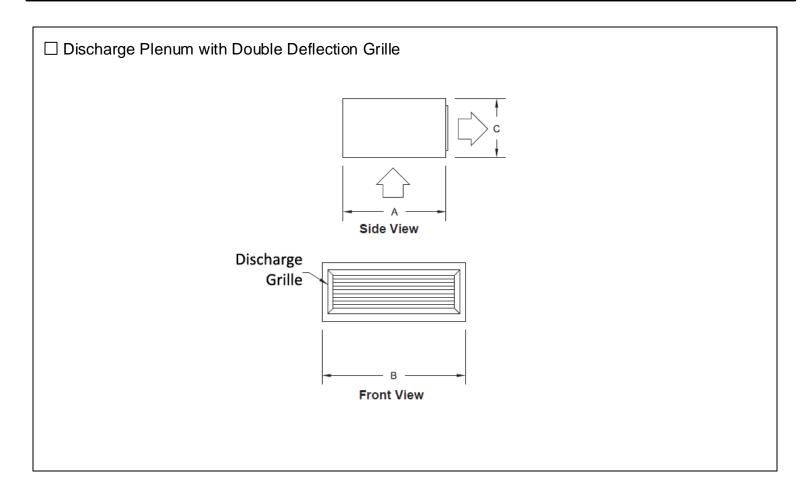


| Unit Size | А | В | C-Opening |
|-----------|-------|-------|-----------|
| 08 | 19 | 26 | 9x16 |
| | [483] | [660] | [229x406] |
| 12 | 21 | 26 | 9x18 |
| | [533] | [660] | [229x457] |
| 16 | 25 | 29 | 9x22 |
| | [635] | [737] | [229x559] |
| 20 | 28 | 29 | 12x22 |
| | [711] | [737] | [305x559] |
| 25 | 28 | 39 | 12x25 |
| | [711] | [991] | [305x635] |
| 30 | 28 | 39 | 12x25 |
| | [711] | [991] | [305x635] |

- 1. Bottom and back panels are fixed.
- 2. Both side panels are removable and can be used to cover the front opening.



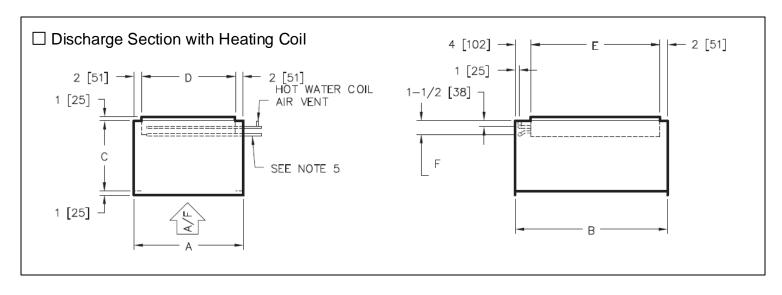




| Unit Size | А | В | С | Supply Grille |
|-----------|-------|-------|-------|---------------|
| 08 | 19 | 26 | 12 | 18x8 |
| | [483] | [660] | [305] | [457x203] |
| 12 | 21 | 26 | 12 | 22x8 |
| | [533] | [660] | [305] | [559x203] |
| 16 | 25 | 29 | 14 | 24x10 |
| | [635] | [737] | [356] | [610x254] |
| 20 | 28 | 29 | 16 | 24x12 |
| | [711] | [737] | [406] | [610x305] |
| 25 | 28 | 39 | 16 | 30x12 |
| | [711] | [991] | [406] | [762x305] |
| 30 | 28 | 39 | 16 | 36x12 |
| | [711] | [991] | [406] | [914x305] |

- 1. Discharge plenum shipped attached to unit.
- 2. Discharge plenum includes double deflection discharge grille mounted on front as shown.
- 3. Discharge plenum may not be combined with blow through electric heat.





| | | | С | D | | | 1 | = | | Weight |
|-----------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|--------|
| Unit Size | А | В | | | E | Hot \ | Hot Water | | Steam | |
| | | | | | | 1 Row | 2 Row | 1 Row | 2 Row | [kg] |
| 08 | 19 | 26 | 12 | 15 | 20 | 2 ¾ | 2 ¾ | 2 ¾ | 2 ¾ | 35 |
| | [483] | [660] | [305] | [381] | [508] | [70] | [70] | [70] | [70] | [16] |
| 12 | 21 | 26 | 12 | 17 | 20 | 2 ¾ | 2 ¾ | 2 ¾ | 2 ¾ | 37 |
| | [533] | [660] | [305] | [432] | [508] | [70] | [70] | [70] | [70] | [17] |
| 16 | 25 | 29 | 14 | 21 | 23 | 2 ¾ | 3 | 2 ¾ | 3 ¼ | 49 |
| | [635] | [737] | [356] | [533] | [584] | [70] | [76] | [70] | [83] | [22] |
| 20 | 28 | 29 | 14 | 24 | 23 | 2 ¾ | 3 | 3 ¼ | 3 ¼ | 53 |
| | [711] | [737] | [356] | [610] | [584] | [70] | [76] | [83] | [83] | [24] |
| 25 | 28 | 39 | 18 | 24 | 33 | 2 ¾ | 3 | 3 ¼ | 3 ¾ | 76 |
| | [711] | [991] | [457] | [610] | [838] | [70] | [76] | [83] | [95] | [35] |
| 30 | 28 | 39 | 18 | 24 | 33 | 3 | 3 ¼ | 3 ¾ | 3 ¾ | 80 |
| | [711] | [991] | [457] | [610] | [838] | [76] | [83] | [95] | [95] | [36] |

Coil Connection Sizes

| | Hot \ | Vater | Steam | | | | | | | |
|-----------|-------|-------|--------|-------------------|-------|------------|--|--|--|--|
| Unit Size | 1 Row | 2 Row | 1 F | Row | 2 Row | | | | | |
| | 1 KOW | 2 ROW | Supply | Supply Condensate | | Condensate | | | | |
| 08 | 5/8 | 5/8 | 1 1/8 | 7/8 | 1 1/8 | 7/8 | | | | |
| | [16] | [16] | [29] | [22] | [29] | [22] | | | | |
| 12 | 5/8 | 5/8 | 1 1/8 | 7/8 | 1 1/8 | 7/8 | | | | |
| | [16] | [16] | [29] | [22] | [29] | [22] | | | | |
| 16 | 5/8 | 5/8 | 1 1/8 | 7/8 | 1 3/8 | 1 1/8 | | | | |
| | [16] | [16] | [29] | [22] | [35] | [29] | | | | |
| 20 | 5/8 | 5/8 | 1 3/8 | 1 1/8 | 1 3/8 | 1 1/8 | | | | |
| | [16] | [16] | [35] | [29] | [35] | [29] | | | | |
| 25 | 5/8 | 7/8 | 1 3/8 | 1 1/8 | 1 5/8 | 1 1/8 | | | | |
| | [16] | [22] | [35] | [29] | [41] | [29] | | | | |
| 30 | 7/8 | 7/8 | 1 5/8 | 1 1/8 | 1 5/8 | 1 1/8 | | | | |
| | [22] | [22] | [41] | [29] | [41] | [29] | | | | |

- This section required with 6 row cooling in conjunction with hot water and all steam heating.
- 2. Weight with 2 row dry coil.
- 3. Coil connection dimension + 1/2" [13mm].
- 4. Hot Water Coils: Supply, bottom; Return, top.
- 5. Steam Coils: Supply, top; Condensate, bottom.
- 6. Discharge section may not be combined with blow thru electric heat.



Coil

TBL is available with hot water, chilled water, direct expansion (DX), and standard steam coils for specific application. Coils are AHRI certified and labeled.

Nominal Coil Connection Sizes

| | | | | | | COIL T | YPE | | | | | | |
|------|-------|-------------|--------|--------|--------|--------|--------|--------|------|--------|-------------|--------|--|
| UNIT | | WA | TER | | | STE | EAM | | | REFRIG | REFRIGERANT | | |
| SIZE | 1 POW | 1 ROW 2 ROW | 4 ROW | 6 ROW | 1 R | OW | 2 ROW | | 4 R | OW | 6 ROW | | |
| | TROW | ZIOW | 41000 | OKOW | STM. | COND. | STM. | COND. | LIQ. | SUCT. | LIQ. | SUCT. | |
| 08 | 5/8" | 5/8" 7/8" | 7/8" | 1 1/8" | 7/8" | 1 1/8" | 7/8" | 5/8" | 5/8" | 5/8" | 5/8" | | |
| 00 | [16] | [16] | [22] | [22] | [29] | [22] | [29] | [22] | [16] | [16] | [16] | [16] | |
| 12 | 5/8" | 5/8" | 7/8" | 7/8" | 1 1/8" | 7/8" | 1 1/8" | 7/8" | 5/8" | 7/8" | 5/8" | 7/8" | |
| 12 | [16] | [16] | [22] | [22] | [29] | [22] | [29] | [22] | [16] | [22] | [16] | [22] | |
| 16 | 5/8" | 5/8" | 7/8" | 1 1/8" | 1 1/8" | 7/8" | 1 3/8" | 1 1/8" | 5/8" | 7/8" | 5/8" | 7/8" | |
| 10 | [16] | [16] | [22] | [29] | [29] | [22] | [35] | [29] | [16] | [22] | [16] | [22] | |
| 20 | 5/8" | 5/8" | 7/8" | 1 1/8" | 1 3/8" | 1 1/8" | 1 3/8" | 1 1/8" | 5/8" | 7/8" | 5/8" | 7/8" | |
| 20 | [16] | [16] | [22] | [29] | [35] | [29] | [35] | [29] | [16] | [22] | [16] | [22] | |
| 25 | 5/8" | 7/8" | 1 1/8" | 1 3/8" | 1 3/8" | 1 1/8" | 1 5/8" | 1 1/8" | 5/8" | 7/8" | 5/8" | 1 1/8" | |
| 25 | [16] | [22] | [29] | [35] | [35] | [29] | [41] | [29] | [16] | [22] | [16] | [29] | |
| 30 | 7/8" | 7/8" | 1 1/8" | 1 3/8" | 1 5/8" | 1 1/8" | 1 5/8" | 1 1/8" | 5/8" | 1 1/8" | 5/8" | 1 1/8" | |
| 30 | [22] | [22] | [29] | [35] | [41] | [29] | [41] | [29] | [16] | [29] | [16] | [29] | |

All dimensions are inches [millimeters].

NOTES:

- 1. Water coils are based on Standard GPM Circuiting. Consult Titus for applications requiring special circuiting.
- 2.Refrigerant coil connection sizes for single circuit coils and may vary with application. Contact Titus for double circuit coils.
- 3. All dimensional data is outside diameter (O.D.),.

Electric Heat

| | | | | ELECTRIC HEAT KW LIMITS | | | | | | | | | | |
|------------|---------|------|------|-------------------------|------|------|------|------|------|------|------|------|------|------|
| | IOV TII | | | | | | | Unit | Size | | | | | |
| / | AND PH | HASE | 0 | 8 | 1 | 2 | 1 | 6 | 2 | 20 | 2 | :5 | 3 | 0 |
| | | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| | 115 | kW | 3 | 5 | 3 | 5 | 3 | 5 | 4 | 5 | | | | |
| Q. | 115 | AMPs | 26.1 | 43.5 | 26.1 | 43.5 | 26.1 | 43.5 | 34.8 | 43.5 | | | | |
| Phase | 208 | kW | 3 | 9 | 3 | 9 | 3 | 9 | 4 | 9 | 6 | 9 | 6 | 9 |
| | 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 |
| <u>a</u> e | 230 | kW | 3 | 11 | 3 | 11 | 3 | 11 | 4 | 11 | 6 | 11 | 6 | 11 |
| Single | | 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 |
| တ | 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 |
| a) | 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 |
| Phase | 230 | kW | 3 | 13 | 3 | 18 | 3 | 18 | 4 | 18 | 4 | 18 | 4 | 18 |
| 됩 | 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 |
| ee e | 460 | kW | 3 | 13 | 3 | 20 | 3 | 20 | 4 | 26 | 4 | 26 | 4 | 26 |
| Three | 430 | 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 |
| - | 575 | kW | 3 | 13 | 3 | 20 | 3 | 20 | 4 | 26 | 4 | 26 | 4 | 26 |
| | 3/3 | 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.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.



Unit Weight Data

| COMP | ONENT | | | UNIT | SIZE | | |
|--------------|---------------|----------|----------|----------|----------|-----------|-----------|
| COIVIE | ONENT | 08 | 12 | 16 | 20 | 25 | 30 |
| BASI | C UNIT | 125 [57] | 131 [60] | 160 [73] | 167 [76] | 231 [105] | 236 [107] |
| DAMPER | SECTION | 42 [19] | 53 [24] | 59 [27] | 73 [33] | 91 [41] | 91 [41] |
| BLOW THRU EL | ECTRIC HEATER | 42 [19] | 42 [19] | 42 [19] | 50 [23] | 55 [25] | 55 [25] |
| DISCHARGE | COIL SECTION | 35 [16] | 37 [17] | 49 [22] | 53 [24] | 76 [35] | 80 [36] |
| SUPPLY | PLENUM | 22 [10] | 26 [12] | 35 [16] | 38 [17] | 76 [35] | 76 [35] |
| RETURN P | LENUM (ACB) | 29 [13] | 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 ROWS | 2 ROW - WET | 21 [10] | 27 [12] | 33 [15] | 42 [19] | 48 [22] | 56 [25] |
| COIL ROVS | 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] |

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



STANDARD FEATURES

Construction

- Galvanized steel cabinet construction, minimum 18 gauge
- 1" thick 1.6 lb/ft₃ scrim reinforced foil faced insulation, glued, taped and pinned in place
- 1" supply duct collars
- Gasketed, removable access panel sized for easy handling
- Galvanized steel drain pan with 1 1/8" ODM copper pipe outlet
- Left and right hand arrangement

Fan Assembly

- Forward curved (double width, double inlet) fans
- Statically and dynamically balanced
- Solid steel shafting
- Ball bearings with a minimum design average life (L50) of 100,000 hours

Fan Motor and Drive

- NEMA design ODP motors
- 1750 RPM single speed, 60 Hertz
- Single phase motors with inherent thermal protection
- Three phase motors
- Rigid mount adjustable motor base
- Standard cross section "V-belt" drive with 1.2 service factor
- Adjustable pitch motor pulley and fixed pitch blower pulley

Coils

- ARI 410 certified and labeled
- 1/2" O.D. seamless copper tubes
- Collared and corrugated aluminum fins
- Manual air vent plug on all water coils
- 300 PSIG working pressure at 200°F
- Steam coils rated at 15 PSIG maximum
- Copper ODM sweat connections
- 0.016" tube wall on water and evaporator coils
- 0.025" tube wall on steam coils
- High efficiency aluminum fin surface for optimizing heat transfer, pressure drop and carryover

Filters and Filter Rack

- Top access flat filter rack (TBL only)
- Standard size 2" nominal throwaway filters

Electrical

- Fan motor wired and terminated to J-box
- All units ETL listed in compliance with UL/ANSI Standard 1995

OPTIONAL FEATURES

Construction

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

Fan Motor and Drive

- TEFC motors
- High efficiency motors

Coils

- 4 and 6 row chilled water or R22 DX coils
- 1 and 2 row hot water coils
- 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

- 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 (see page 9)