



TBH

Cooling Only/Heat Pump
Nominal Circuits:
9,000 - 24,000 BTU/h



Description

The **TBH** evaporators are delivered equipped to operate in either straight cool or heat pump mode, with no modifications required. The evaporator chassis is suspended from the structural ceiling above the drop T-bar ceiling. This application opens up room design possibilities while offering ideal placement of the source of conditioned air. The attractive intake/discharge grille replaces any two by four foot ceiling panel and only electric wiring and refrigerant tubing is needed between the ceiling unit and the outside condensing unit.

The **TBH** provides outstanding performance and features, including vibration isolation suspension of the unit and optional, high reliability and quiet condensate pump.

Due to **Comfort-Aire's** on-going product development program, all designs and specifications are subject to change without notice.

Capacities/Efficiency

The **TBH** produces system SEER's exceeding 10.0. Refer to the **Comfort-Aire** condensing unit specifications for specific performance data.

Materials of Construction

Cabinet:

- Fabricated of heavy gauge galvanized steel
- Thermal and acoustical insulation

Ceiling Insert Grille:

- Designer white, aluminum, architectural panel with fixed position intake louvers and fixed, three-way discharge louvers to minimize re-circulation
- Return grille hinged for quick access to filter

Condensate Drain Pan:

- Coated, galvanized steel drain pan with safety overflow switch and secondary condensate drain
- Unit is equipped with secondary overflow drain
- Mounting Hanger Kit

Air Systems

Fans/Motors:

- Direct drive, double width, double inlet, forward curved centrifugal fan in draw through configuration
- Motor is PSC type, with overload protection and mounted on vibration isolators

Filter:

- Disposable standard 20" x 20" x 1"

Coil

Coil is seamless, copper tubing, arranged in staggered configuration, with enhanced aluminum fins, tested to 460 psig. The tubes are mechanically expanded for secure bonding to fin shoulder.

Refrigeration Circuit

The unit is equipped with Distributor/Piston Expansion Device. Refrigeration line connections are sweat.

Controls/Components

Controls/components installed at the factory or supplied, include:

- Relays and connections for condensing unit and thermostat
- Low watt density Nichrome type heat coil with automatic reset safety switch and fusible link when electric heat is selected

System Options

- Electric heat option
- Low Voltage thermostat with Off-Heat-Cool and On-Auto switches
- **TBH** digital control with infra-red capability (cooling only units) (factory installed electronics required)
- Hand held infra-red controller (not necessary for digital control operation) - (cooling only units)
- Controls and relays for 24V remote thermostat (Factory wired)
- Factory or field installed condensate pump (MCP field installed)

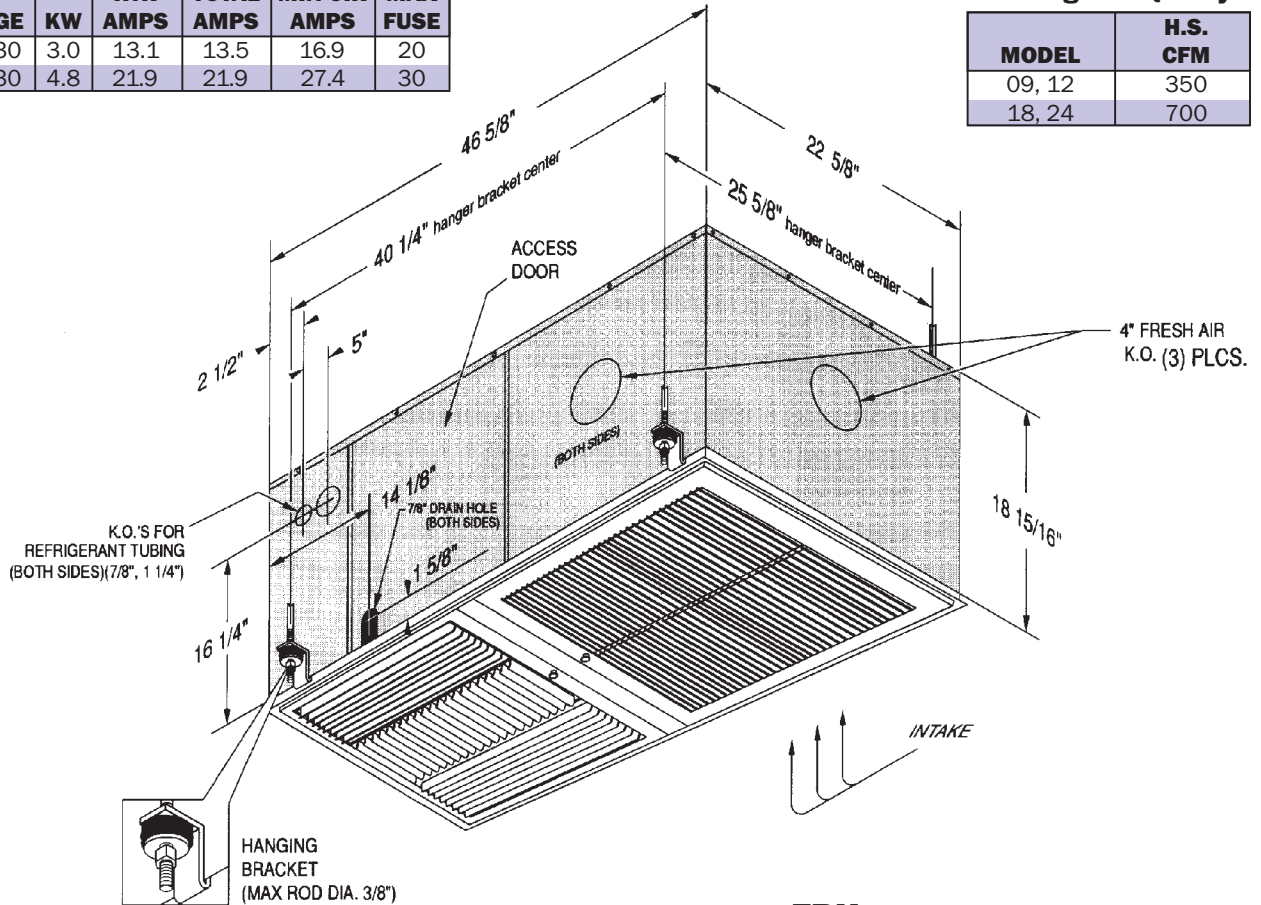
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With Electric Heat Options

MODEL	VOLTAGE	KW	HTR AMPS	TOTAL AMPS	MIN CIR AMPS	MAX FUSE
09, 12	208/230	3.0	13.1	13.5	16.9	20
18, 24	208/230	4.8	21.9	21.9	27.4	30

TBH Discharge Air Quality

MODEL	H.S. CFM
09, 12	350
18, 24	700



TBH

Electrical Specifications

MODEL	VOLTAGE/ HERTZ/PHASE	FAN		MIN. ⁽¹⁾ CIRCUIT AMPACITY	MAX FUSE
		HP	FLA		
TB/TBH 09	208/230/60/1	.03	0.4	9.5	15
TB/TBH 12	208/230/60/1	.03	0.4	.5	15
TB/TBH 18	208/230/60/1	.125	1.3	1.4	15
TB/TBH 24	208/230/60/1	.125	1.3	1.4	15

(1) If electric heaters are installed, use ampacity rating and max. fuse from Heater Options Chart.

TBH

Piping Specifications

MODEL	LINE SIZES		SHIPPING WEIGHT
	LIQUID	SUCTION	
09, 12	1/4"	1/2"	160
18, 24	3/8"	3/4"	165

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