



Comfort Where It Counts.

TBH 2 X 4 LAY-IN CEILING AIR HANDLER

P/N 240-3246 Rev. 1.0 [11/04]

AIR HANDLER STANDARD FEATURES

▲▼ Cabinet:

- Fabricated of 20 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 recirculation
- 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:

- **Fan** - Direct drive, double width, double inlet, forward curved centrifugal fan in draw through configuration
- **Motor** - PSC type, with overload protection and mounted on vibration isolators.
- **Air Filter** - Disposable standard 20" x 20" x 1"

- **Coil** - 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** - 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
- Low Voltage Transformer

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

SPECIFICATIONS AND PERFORMANCE



Cooling Only/Heat Pump

Nominal Circuits: 9,000 Btuh
12,000 Btuh, 18,000 Btuh, 24,000 Btuh

PRODUCT DESCRIPTION

The TBH air handlers are delivered equipped to operate in either straight cool or heat pump mode, with no modifications required. The air handler 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.

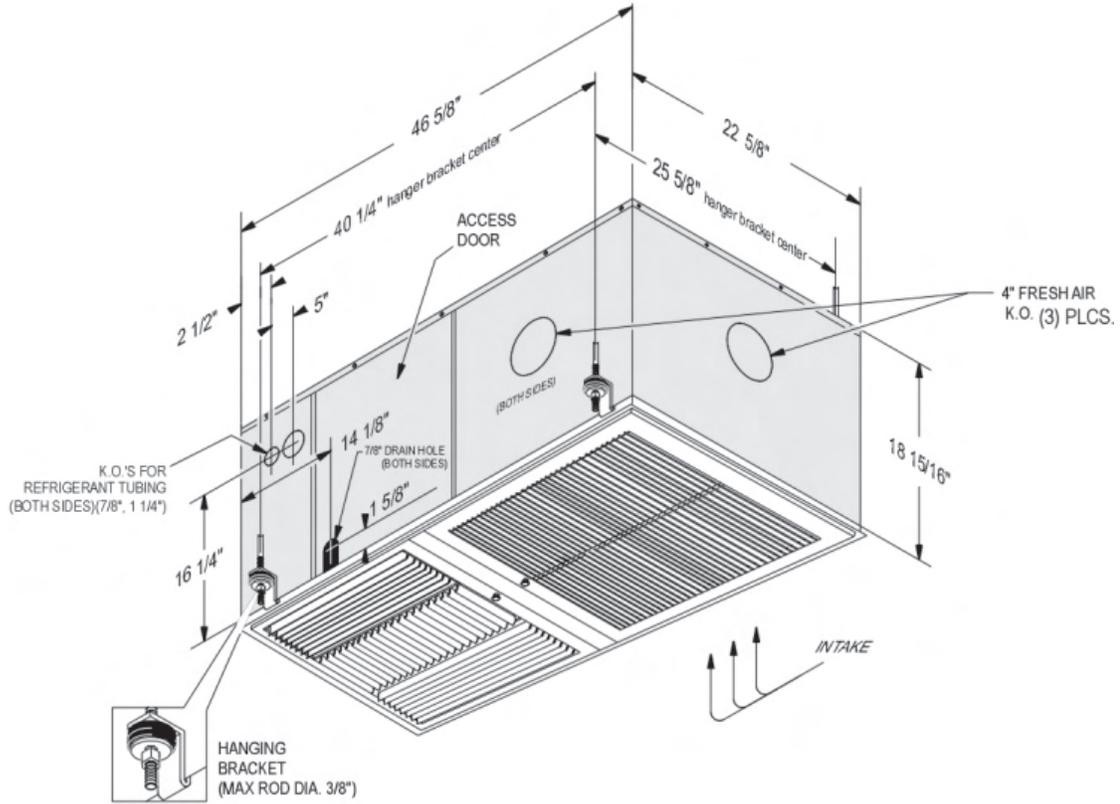
Due to EMI's on-going product development program, all designs and specifications are subject to change without notice.

▲▼ Capacities/ Efficiency:

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

TBH DIMENSIONS AND SPECIFICATIONS

NOTE: Due to EMI's ongoing development programs, design and specifications data may change without notice.



TBH Electrical Specifications					
Model No.	Voltage/ Hertz	Fan		Min Ampacity ⁽¹⁾	Max Fuse ⁽¹⁾
		HP	FLA		
TBH 09D	208/230/60	.03	0.4	0.5	15
TBH 12D	208/230/60	.03	0.4	0.5	15
TBH 18D	208/230/60	.125	1.3	1.4	15
TBH 24D	208/230/60	.125	1.3	1.4	15

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

TBH Electric Heat Options						
Model No.	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	20.9	21.9	27.4	30

TBH Piping Specifications			
Model	Line Sizes		Shipping Weight
	Liquid	Suction	
09, 12	1/4"	1/2"	160 Lb.
18, 24	3/8"	3/4"	165 Lb.

Discharge Air Quantity	
Model No.	H.S. CFM
09, 12	350
18, 24	700



Enviromaster International LLC
 5780 Success Drive, Rome, NY 13440
 Phone: 1-800-228-9364
 Fax: 1-800-232-9364
 E-mail: emi@enviromaster.com