

**T2HA TOP DISCHARGE  
 DUCTLESS SPLIT SYSTEM MULTI-ZONE  
 CONDENSING UNIT**

P/N# 240006735 Rev. 1.0 [4/07]

**SPECIFICATIONS AND PERFORMANCE**



T2HA

**LIMITED RANGE HEAT PUMP**

Nominal Circuit Capacities:  
 18,000 and 24,000 Btuh

**DESCRIPTION**

EMI offers the finest 13 SEER multi-zone Heat Pump unit in the ductless split market. The Top Discharge multi-zone Heat Pump Unit allows the installation of up to four circuits from a single outside location when space or aesthetic requirements limit the use of locations. Each zone is independent and no mixing of refrigerant will occur.

*All EMI products are subject to ongoing development programs and design and specifications may change without notice.*

**STANDARD FEATURES**

▲▼ **Compressors** - Hermetically sealed high efficiency rotary, reciprocating, or scroll types, depending on zone capacities. Motors are PSC type with inherent overload protection. Compressors are installed on resilient mountings.

▲▼ **Capacities/Efficiencies** - EMI's Top Discharge systems meet or exceed 13.0 SEER efficiency requirements.

▲▼ **Cabinet** - Fabricated of G90U galvaneal steel, finished with corrosion inhibiting, polyester, powder coated paint (2,000 hr. salt spray tested)

- Fan Guard - Black vinyl coated

- Cabinet Color - Light gray & black
- Concealed Service Valves
- Easy access hose connections at 45° from valve body.
- Common suction pressure access point.

▲▼ **Refrigeration Circuit** - The T2HA is delivered with pre-charged refrigerant (R-22) for the condenser coils and evaporators. Charging of the field installed piping is required. Unit refrigeration valves are solid brass, for sweat connection. Solid core filter driers are factory installed on all models.

▲▼ **Condenser Coil** - The condenser coils are tested to 600 psig and are constructed of seamless copper tubing, with enhanced aluminum fins. The tubes are mechanically expanded for secure bonding to fin shoulder.

▲▼ **Condenser Fan/Motor** - The condenser fan is a large diameter, high efficiency, four blade aluminum propeller type, directly connected to the totally enclosed, PSC motor. The motor is fitted with internal thermal protection. These multi-zone units are a drawthrough air flow design.

▲▼ **Controls/Components:**  
 Controls and Components installed at the factory include:

- Compressor and fan motor contactor
- Capacitor
- Crankcase Heaters (9,000 & 12,000 only)
- Hard Start Assist
- Loss of charge switches (9,000 & 12,000)
- Low Voltage (24V) connections
- High pressure control (18,000 & 24,000)
- Large capacity suction accumulator (9,000, 12,000 & 18,000)
- Factory installed solid core filter driers

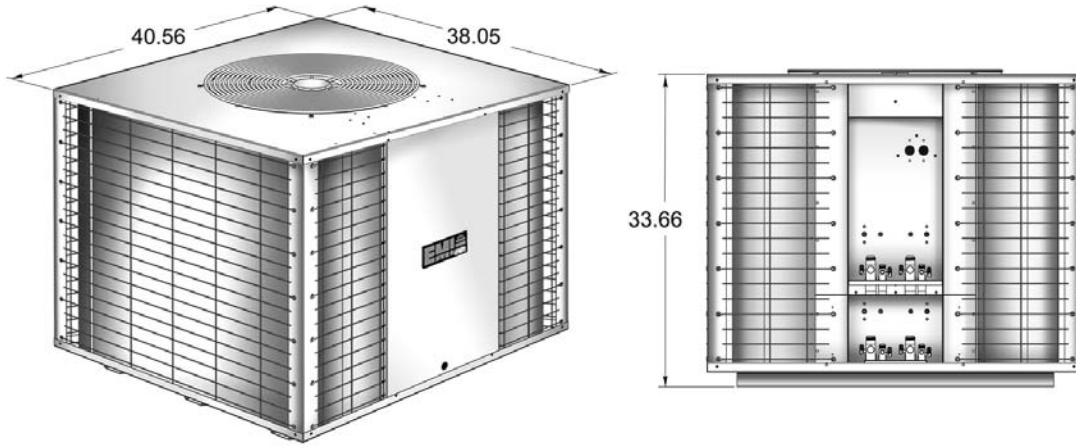
▲▼ **Refrigerant Run Options** - The standard system will support refrigerant runs to the inside unit of up to 100 equivalent feet of interconnect with 35 feet of lift.

**SYSTEM OPTIONS**

- Sea Coast coated / Copper-Copper coils
- Wind Baffles - Louvers

## TOP DISCHARGE MULTI-ZONE DIMENSIONS AND SPECIFICATIONS

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



SHIPPING WEIGHT AND SOUND		
Model	(Lbs.)	dBA
8800	325	70
4400	325	70
8400	325	70

INTERCONNECTING TUBING SPECS T2HA, T3HA, & T4HA models:				
Nominal Circuit Capacity	Maximum Length	Maximum Lift	Liquid Line OD	Suction Line OD
9,000	100'	35'	1/4"	1/2"
12,000	100'	35'	1/4"	1/2"
18,000	100'	35'	3/8"	5/8"
24,000	100'	35'	3/8"	3/4"

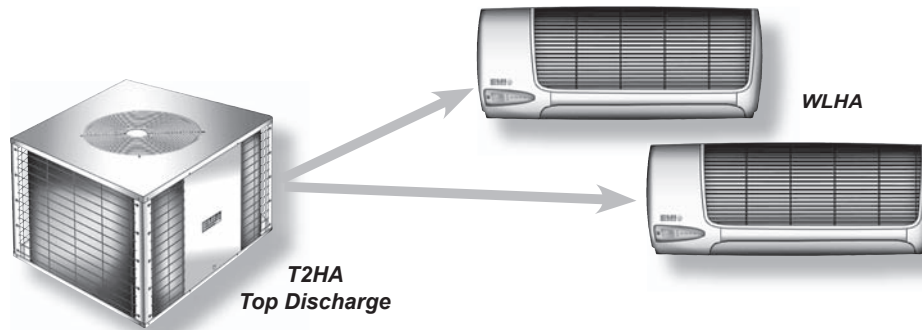
T2HA, T3HA, AND T4HA - 208/230V - 60 HERTZ 1 - PHASE														
CAPACITY	FAN MTR		COMPRESSOR								TOTAL AMPS	MCA	HACR BRKR	MIN VOLT
	AMPS	HP	CIRCUIT #1		CIRCUIT #2		CIRCUIT #3		CIRCUIT #4					
			RLA	LRA	RLA	LRA	RLA	LRA	RLA	LRA				
8800	1.8	0.33	5.4	36.0	5.4	36.0	-	-	-	-	12.6	14.0	15.0	197
4400	1.8	0.33	8.8	54.0	8.8	54.0	-	-	-	-	19.4	21.6	30.0	197
8400	1.8	0.33	5.4	36.0	8.8	54.0	-	-	-	-	16.0	18.2	25.0	197

**Note:**

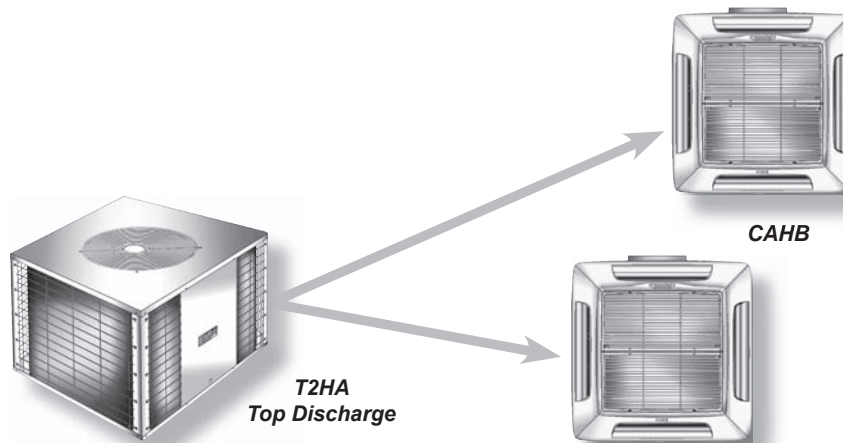
- Do not up size or alter line sizes.
- Circuit Designators:
  - 9 = 9,000 Btuh
  - 2 = 12,000 Btuh
  - 8 = 18,000 Btuh
  - 4 = 24,000 Btuh (ex. Model 8400 consists of one 18,000 Btuh and one 24,000 Btuh capacity circuit)

## TOP DISCHARGE MULTI-ZONE SYSTEM MATCHES

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WLHA / T2HA SYSTEM PERFORMANCE DATA							
Model		Cooling				Heating	
T2HA Outdoor Condenser	Indoor Air Handler	Btuh	SEER	SHR	EER	Btuh	COP
8800	WLHA24 + WLHA24	36000	13	0.72	12.4	29000	3.3
8400	WLHA24 + WLHA24	42000	13	0.68	12.2	34800	3.2
4400	WLHA24 + WLHA24	48000	13	0.65	12.1	40500	3.2



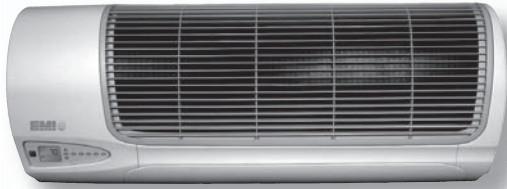
CAHB / T2HA SYSTEM PERFORMANCE DATA							
Model		Cooling				Heating	
T2HA Outdoor Condenser	Indoor Air Handler	Btuh	SEER	SHR	EER	Btuh	COP
8800	CAHB24 + CAHB24	36000	13	0.75	12.6	26400	3.1
8400	CAHB24 + CAHB24	42000	13	0.71	12.4	32600	3.1
4400	CAHB24 + CAHB24	48000	13	0.67	12.0	40000	3.1



## EMI'S PRODUCT LINE

### EVAPORATORS

**WLCA & WLHA**  
*High Wall Evaporator*

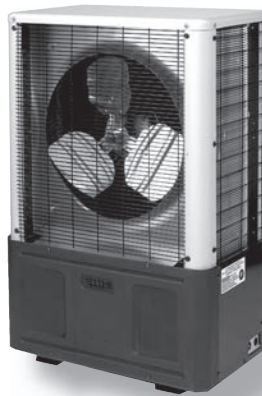


**CACB & CAHB**  
*Cassette Evaporator*

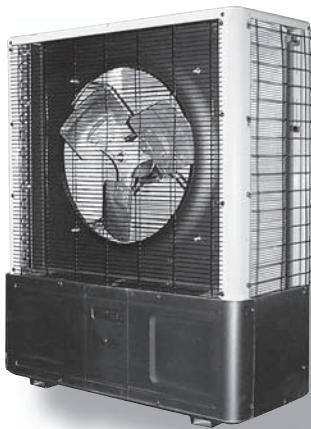


### CONDENSERS

**S1CA & S1HA**  
*Single Zone  
Side Discharge*



**S2CA & S2HA**  
*Dual Zone  
Side Discharge*



**T2CA, T3CA, T4CA  
T2HA, T3HA, T4HA**  
*2, 3 & 4 Zone  
Top Discharge*

