

**T2C, T3C, AND T4C
TOP DISCHARGE DUCTLESS SPLIT SYSTEM
MULTI-ZONE CONDENSING UNIT**

P/N# 240005840, Rev. 1.1 [05/06]

SPECIFICATIONS AND PERFORMANCE



T2C, T3C & T4C (Shown)

COOLING ONLY

Nominal Circuit Capacities:
9,000 - 12,000 - 18,000 and 24,000 Btuh

DESCRIPTION

EMI offers the finest 13 SEER high capacity multi-zone outdoor unit in the ductless split market. The Top Discharge High Capacity Condensing 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 is required.

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

▲▼ **Compressors** - Hermetically sealed high efficiency rotary or reciprocating types, depending on zone loads. Motors are PSC type with inherent overload protection. Compressors are installed on resilient mountings. EMI's Duratec package is installed on circuits with 9,000 & 12,000 Btuh rotary compressors.

▲▼ **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

▲▼ **Refrigeration Circuit** - The T2C, T3C, and T4C are 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 with rotary compressors.

▲▼ **Condenser Coil** - The condenser coils are tested to 600 psig and are constructed of seamless copper tubing, arranged in staggered configuration, 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, three or four blade (depending on capacity) 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 installed at the factory include:

- Compressor and fan motor contactor
- Capacitor
- Loss of charge switches – 9,000 & 12,000 Btuh with rotary compressor
- Low Voltage (24V) connections
- High pressure control on 18,000 to 24,000 Btuh with reciprocating or scroll type compressor
- Large capacity suction accumulator (9,000 & 12,000 Btuh zones with rotary compressors only)
- Factory installed solid core filter driers (9,000 & 12,000 Btuh zones with rotary compressors only)

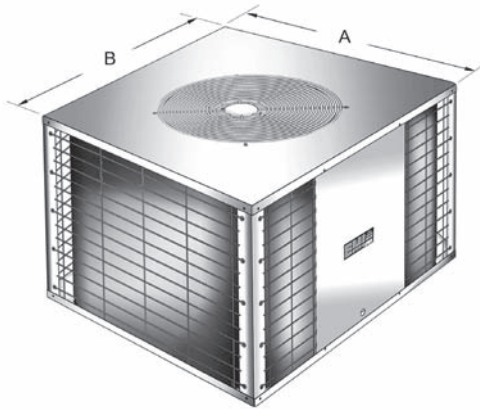
▲▼ **Refrigerant Run Options** - The standard system will support refrigerant runs to the inside unit of up to 100' of interconnect with 35' of lift.

SYSTEM OPTIONS

- **Low ambient** - operation down to 32° F specify this option if the system will operate in cooling mode at outside temperatures below 60° F (includes fan cycle switch and crankcase heater on 9,000 & 12,000 Btuh with rotary compressors) Field installed kit
- **Low ambient** for operation to 0° F (consult factory)
- **Sea coast coils**
- **Hard start assist**

TOP DISCHARGE MULTI-ZONE DIMENSIONS AND SPECIFICATIONS

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



SHIPPING WEIGHT	
Model	(Lbs.)
9999	265
2222	290
9922	280
9992	270
9222	285
8800	320
4400	325
9940	295
9990	250
2220	265
9800	275
8400	325
2400	285
9280	300
9240	305
2280	310
9220	260
9920	255
9980	295
2240	310

Cabinet Size	Dim. A	Dim. B	Dim. C
Small	41"	32"	26"
Large	41"	32"	30"

Piping Specification		
Ref. Line Size		
Model	Liquid	Suction
09, 12	1/4"	1/2" O.D.
18	3/8"	5/8" O.D.
24	3/8"	3/4" O.D.

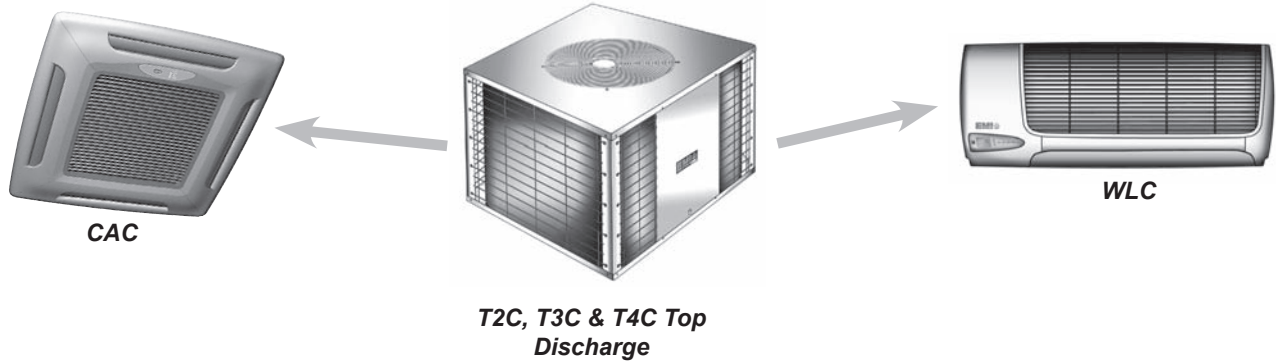
SOUND LEVELS	
Model	dBA
09-12	70
18	70
24	70

Note: Do not up size or alter line sizes.

T2C, T3C, AND T4C 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				
9999	1.8	0.33	3.5	19	3.5	19.0	3.5	19	3.5	19.0	15.8	16.7	20	197
2222	1.8	0.33	4.5	21	4.5	21.0	4.5	21	4.5	21.0	19.8	21.0	25	197
9222	1.8	0.33	3.5	19	4.5	21.0	4.5	21	4.5	21.0	18.8	19.9	20	197
9992	1.8	0.33	3.4	23	3.4	23.0	3.4	23	4.5	21.0	16.5	17.7	20	197
9922	1.8	0.33	3.5	19	3.5	19.0	4.5	21	4.5	21.0	17.8	19.0	20	197
8800	1.8	0.33	-	-	5.4	36.0	-	-	5.4	36.0	12.6	14.0	15	197
4400	1.8	0.33	-	-	8.0	53.5	-	-	8.0	53.5	17.8	19.8	25	197
9940	1.8	0.33	3.4	23	3.4	23.0	-	-	8.0	53.5	16.6	18.6	25	197
9990	1.8	0.33	3.4	23	3.4	23.0	3.4	23	-	-	12.0	12.9	15	197
2220	1.8	0.33	4.5	21	4.5	21.0	4.5	21	-	-	15.3	16.5	20	197
9800	1.8	0.33	3.4	23	-	-	-	-	5.4	36.0	10.6	12.0	15	197
8400	1.8	0.33	-	-	5.4	36.0	-	-	8.0	53.5	15.2	17.2	25	197
2400	1.8	0.33	4.5	21	-	-	-	-	8.0	53.5	14.3	16.3	20	197
9280	1.8	0.33	3.4	23	4.5	21.0	-	-	5.4	36.0	15.1	16.5	20	197
9240	1.8	0.33	3.4	23	4.5	21.0	-	-	8.0	53.5	17.7	19.7	25	197
2280	1.8	0.33	4.5	21	4.5	21.0	-	-	5.4	36.0	16.2	17.6	20	197
9220	1.8	0.33	3.4	23	4.5	21.0	4.5	21	-	-	14.2	15.4	20	197
9920	1.8	0.33	3.4	23	3.4	23.0	4.5	21	-	-	13.1	14.3	15	197
9980	1.8	0.33	3.4	23	3.4	23.0	-	-	5.4	36.0	14.0	15.4	20	197
2240	1.8	0.33	4.5	21	4.5	21.0	-	-	8.0	53.5	18.8	20.8	25	197

TOP DISCHARGE MULTI-ZONE SYSTEM MATCHES

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SYSTEM OPTIONS WITH T2C TOP DISCHARGE						
Cassette(s)	Condenser	Btuh	SEER	SHR	EER	Ref.
CACA24	T2CA88	34,000	13.0	.79	11.4	R22
CACA24	T2CA44	45,200	13.0	.69	11.2	R22
CACA12+CACA24	T2CA98	27,000	13.0	.82	11.8	R22
CACA24	T2CA84	39,000	13.0	.74	11.3	R22
CACA12+CACA24	T2CA24	34,600	13.0	.75	11.8	R22

SYSTEM OPTIONS WITH T2C TOP DISCHARGE						
Wall Unit(s)	Condenser	Btuh	SEER	SHR	EER	Ref.
WLHA24	T2CA88	36,000	13.0	.79	12.1	R22
WLHA24	T2CA44	45,000	13.0	.73	11.8	R22
WLHA09+WLHA24	T2CA98	27,000	13.0	.80	11.8	R22
WLHA24	T2CA84	41,000	13.0	.76	11.8	R22
WLHA2+WLHA24	T2CA24	34,000	13.0	.72	11.8	R22

SYSTEM OPTIONS WITH T3C TOP DISCHARGE						
Cassette(s)	Condenser	Btuh	SEER	SHR	EER	Ref.
ACACA12+CACA24	T3CA994	40,600	13.0	.82	11.3	R22
CACA12	T3CA999	27,000	13.0	.87	11.4	R22
CACA12	T3CA222	36,000	13.0	.76	11.4	R22
CACA12+CACA24	T3CA928	39,000	13.0	.80	11.3	R22
CACA12+CACA24	T3CA924	43,600	13.0	.79	11.7	R22
CACA12+CACA24	T3CA228	42,000	13.0	.76	11.2	R22
CACA12	T3CA922	33,000	13.0	.80	11.4	R22
CACA12	T3CA992	30,000	13.0	.83	11.4	R22
CACA12+CACA24	T3CA998	36,000	13.0	.83	11.4	R22
CACA12+CACA24	T3CA224	46,600	13.0	.75	11.2	R22

SYSTEM OPTIONS WITH T3C TOP DISCHARGE						
Wall Unit(s)	Condenser	Btuh	SEER	SHR	EER	Ref.
WLHA09+WLHA24	T3CA994	41,000	13.0	.77	11.9	R22
WLHA09	T3CA999	27,000	13.0	.80	11.7	R22
WLHA12	T3CA222	34,000	13.0	.71	11.7	R22
WLHA09+WLHA24	T3CA928	39,000	13.0	.77	11.9	R22
WLHA09+WLHA12+WLHA24	T3CA924	43,000	13.0	.75	11.8	R22
WLHA12+WLHA24	T3CA228	41,000	13.0	.74	11.8	R22
WLHA09+WLHA12	T3CA922	32,000	13.0	.74	11.8	R22
WLHA09+WLHA12	T3CA992	30,000	13.0	.77	11.9	R22
WLHA09+WLHA24	T3CA998	36,000	13.0	.80	11.8	R22
WLHA12+WLHA24	T3CA224	46,000	13.0	.72	11.7	R22

SYSTEM OPTIONS WITH T4C TOP DISCHARGE						
Cassette	Condenser	Btuh	SEER	SHR	EER	Ref.
CACA12	T4CA9999	36,000	13.0	.87	11.4	R22
CACA12	T4CA2222	48,000	13.0	.76	11.4	R22
CACA12	T4CA9222	45,000	13.0	.77	11.4	R22
CACA12	T4CA9992	39,000	13.0	.79	11.4	R22
CACA12	T4CA9922	42,000	13.0	.82	11.4	R22

SYSTEM OPTIONS WITH T4C TOP DISCHARGE						
Wall Unit(s)	Condenser	Btuh	SEER	SHR	EER	Ref.
WLHA09	T4CA9999	36,000	13.0	.80	11.8	R22
WLHA12	T4CA2222	45,000	13.0	.73	11.7	R22
WLHA09+WLHA12	T4CA9222	42,000	13.0	.71	11.8	R22
WLHA09+WLHA12	T4CA9992	38,000	13.0	.71	11.8	R22
WLHA09+WLHA12	T4CA9922	41,000	13.0	.73	11.9	R22



ARI Standard
210/240 UAC



EMI'S PRODUCT LINE

EVAPORATORS

WLC/WLH
High Wall Evaporator



CAC
Cassette Evaporator

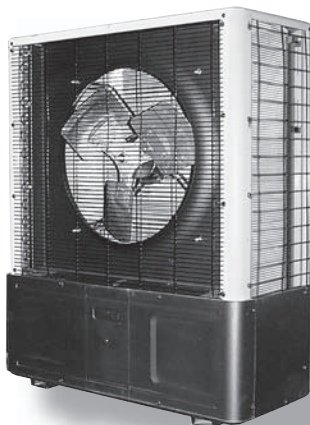


CONDENSERS

S1C & S1H
*Single Zone
Side Discharge*



S2C
*Dual Zone
Side Discharge*



T2C, T3C & T4C
*2, 3 & 4 Zone
Top Discharge*



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