

T2C, T3C & T4C MULTI-ZONE TOP DISCHARGE DUCTLESS SPLIT SYSTEM CONDENSING UNITS

COOLING ONLY

Nominal Circuit Capacities:

9,000 - 12,000 -18,000 & 24,000 Btuh

EMI  **AmericaSeries**

Comfort Where It Counts.



**T2C, T3C &
T4C (Shown)**

Enviromaster International LLC
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Rome, NY 13440
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An  **ECR** International Brand
An ISO 9001-2000 Certified Company



P/N# 240005898 Rev. 1.0 [03/06]

T2C, T3C & T4C MULTI-ZONE CONDENSING UNITS

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

P/N 240005898, Rev. 1.0 [03/06]

This manual is intended as an aid to a qualified service personnel for proper installation, operation, and maintenance of EMI AmericaSeries high efficiency condensing units. Carefully read these instructions before attempting installation or operation. Failure to follow these instructions may result in improper installation, operation, service, or maintenance, possibly resulting in fire, electrical shock, property damage, personal injury, or death.

Shipping Damage MUST be Reported to the Carrier IMMEDIATELY!!!
Examine the exterior. Remove cover and examine compressor and piping for signs of damage.

TO THE INSTALLER

- (1) Retain this manual and warranty for future reference.
- (2) Before leaving the premises, review this manual to be sure the unit has been installed correctly and run the unit for one complete cycle to make sure it functions properly.

To obtain technical service or warranty assistance during or after the installation of this unit, check our website @ www.enviromaster.com or call your installing contractor or distributor. Our technical service department may be contacted at 1-800-228-9364.

When calling for assistance, please have the following information ready:

- Model Number _____
- Serial Number _____
- Date of installation _____



Tampering with the EMI AmericaSeries condensing unit is dangerous and may result in serious injury or death. Tampering voids all warranties. Do not attempt to modify or change this unit in any way.

SAFETY INSTRUCTIONS

- ▲ Read all instructions before using the EMI AmericaSeries high efficiency condensing unit. Install or locate this unit only in accordance with these instructions. Use this unit only for its intended use as described in this manual.
- ▲ **Check the rating plate** on the EMI AmericaSeries condensing unit before installation to make certain the voltage shown is the same as the electric supply to the unit.
- ▲ The EMI AmericaSeries condensing unit must be connected only to a properly grounded electrical supply. Do not fail to properly ground this unit.
- ▲ Turn off the electrical supply before servicing the EMI AmericaSeries condensing unit.
- ▲ Do not use the EMI AmericaSeries condensing unit if it has damaged wiring, is not working properly, or has been damaged or dropped.

[Save These Instructions]

PRODUCT DESCRIPTION

EMI offers the finest multi-zone condensers in the ductless split market. The Top Discharge 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, reciprocating or scroll types, depending on zone loads. Motors are PSC type with inherent overload protection. Compressors are installed on resilient mountings. EMI's Duratec compressor protection package consisting of:

- Suction Accumulator
- Filter dryer
- Loss of charge switch
- High pressure switch
- Start assist

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.

CONTROLS AND COMPONENTS (Factory Installed or Supplied)

Controls installed at the factory include:

- Compressor and fan motor contactors
- Capacitors
- Loss of charge switches – 9,000 & 12,000 Btuh with rotary compressor
- Low Voltage (24V) connections
- High pressure controls on 18,000 to 24,000 Btuh with reciprocating or scroll type compressor
- Large capacity suction accumulators (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)

SYSTEM OPTIONS

- **Low ambient option** - 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 down to 0° F (consult factory)
- **Sea coast coils** (copper/copper)
- **Hard start assist** - (field installed kit only)

INSTALLER SUPPLIED ITEMS

- Power wiring
- Low Volt wiring (18 awg minimum)
- Secure mounting pad or foundation
- Refrigerant piping (if not purchased from EMI)
- High Volt disconnect
- Refrigerant for charging interconnect piping (see charge chart on page 9)

LOW AMBIENT OPTION

KIT MUST BE SPECIFIED IF - the system will be required to operate at outdoor temperatures below 60° F, which may cause damage to the compressor and coil, and may void the warranty. A **Field Installed Low-Ambient Kit** is good for operation down to 32° F. This is accomplished by cycling the condenser fan on and off, which will in turn maintain a constant low side pressure providing a steady cooling effect and keeping the air handler from frosting-up.

NOTE: *If this option is not specified and system runs under low-ambient conditions and experiences any failures (compressor, motor, etc.), warranty on these components may not be honored.*

ITEMS FOR CONSIDERATION

- Locate the unit as close to the indoor section as possible. (see Tubing Specifications chart on page 6.)
- If the unit is used for low ambient cooling down to 32°, Field installed low-ambient controls must be used to prevent system damage.
- Avoid high traffic areas and prevailing wind locations.
- Surface must be flat and level.
- Mount unit above typical snow fall levels.

Ensure free flow of air through the unit. Air must not recirculate from discharge to intake. Air is drawn through the coils and discharged through the fan grille. **A minimum 48" clearance is necessary for the condenser discharge. Intake (coil side) clearance is 12" minimum.** Consider how power will be run to the unit from the power source. Refrigerant piping must be a direct line to the indoor unit.

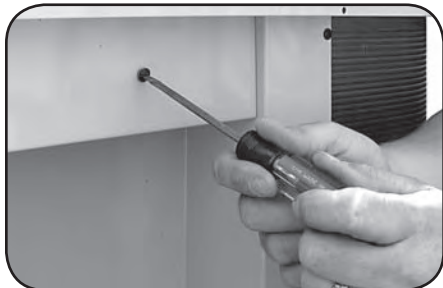
INSTALLATION INSTRUCTIONS

SITE PREPARATION

1. Place the unit on a flat concrete surface or pad if on the ground. Roof mounting should use a build up platform to avoid intake of hot air from the roof.
2. *In areas of heavy snowfall, condensers should be set above the level of maximum anticipated snowfall (12" is usually adequate).*

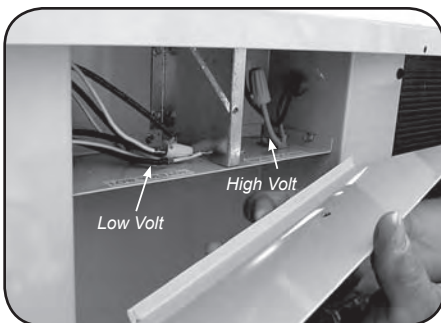
INSTALLATION INSTRUCTIONS

1. Remove the screw on the back panel.



INSTALLATION INSTRUCTIONS

2. Remove panel to expose electrical wiring.



3. Location of electrical and tubing connections on back of unit (T4C shown).



ELECTRICAL WIRING

1. All electrical wiring must be run according to NEC and local codes.
2. Refer to the unit rating plate for voltage, minimum circuit ampacity and over current protection requirements.
3. Use only HACR type breakers or time delay fuses. Select the wire size according to the ampacity rating.

INSTALLATION INSTRUCTIONS

ELECTRICAL WIRING

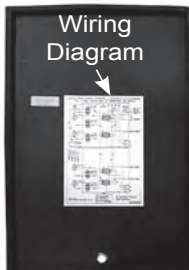


Remove the four screws on the front panel

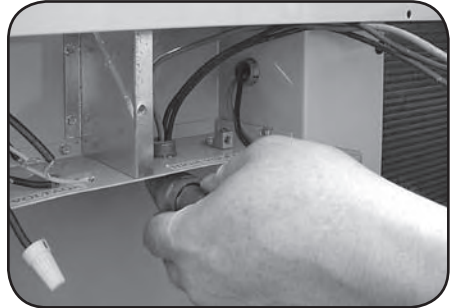
4. To access wiring diagram:

- a) Remove the four screws on the front panel of the unit and slide the panel out.

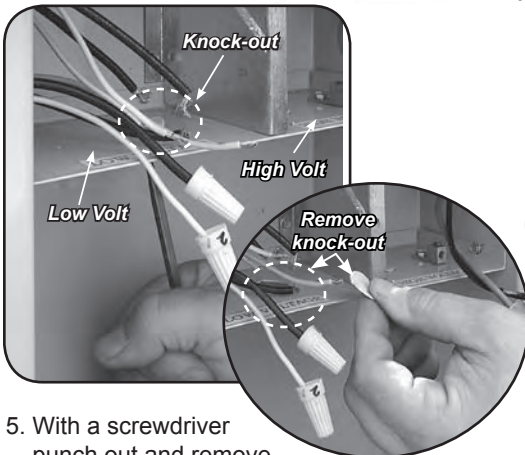
- b) The wiring diagram is located on the inside of the front panel.



6. From the disconnect box feed the high Volt wires through a weather proof conduit and run the power through the 7/8" hole (from knock-out) in the unit's electrical box. Anchor with a strain relief fitting. Refer to the wiring diagram.

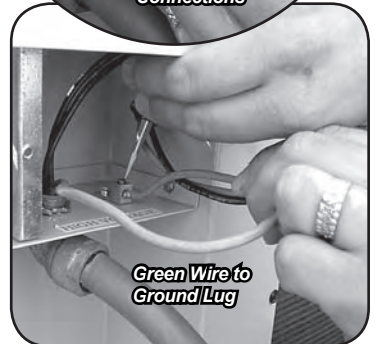
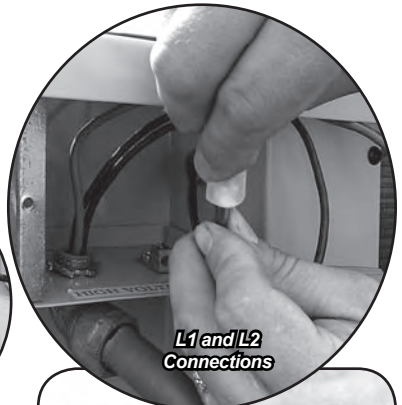


7. Following the wiring diagram, run wires to the High Volt pigtail in the control box and attach L1 and L2 connections. Also run green wire to ground lug.



5. With a screwdriver punch out and remove the knock-outs in the low & high Volt electrical connection box.

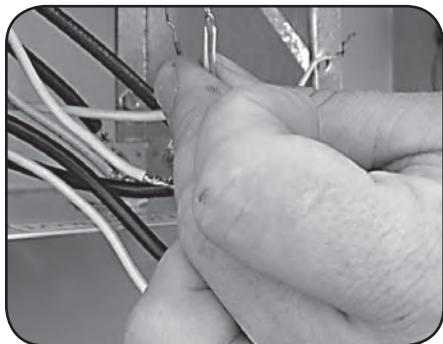
Note: Power should be run to a weather proof disconnect box usually within 3 feet of the unit.



INSTALLATION INSTRUCTIONS

ELECTRICAL WIRING

9. Check wiring diagram for the required number of low voltage wires to be run between indoor and outdoor sections.



10. Connect the 24 Volt wiring matching color to color. Refer to the wiring diagram on the inside front panel of the condenser, and also refer to the wiring diagram on the indoor unit. Low Volt interconnect should be at least 18 awg.

CAUTION!

Make sure that Low Volt wiring for each circuit is connected to the matching Low Volt wiring.

11. Replace the unit's electric box cover and the front panel and fasten screws.

REFRIGERANT PIPING

NOTE: Units are delivered Pre-charged with R-22 refrigerant. Refer to page 9 Refrigerant Processing.

The system will support refrigerant runs to the inside unit of up to 100' equivalent feet with a 35' rise included. The units are furnished with sweat connections and are equipped with service valves and Schrader fittings for charging and taking pressure readings. The following precautions should be made:

- Be certain no burrs remain on the fittings or tubing.
- Use only clean refrigeration tubing.
- Use tube benders to guard against kinking.
- Avoid piping on wet and rainy days and **insulate suction line**. Be certain that plastic end caps remain in place when inserting through wall openings.

Isolate tubing from transmitting vibration to the building or unit and avoid contact with sharp edges. **Service valves should be wrapped with a wet rag "heat sink" to protect valves while brazing.**

INTERCONNECTING TUBING SPECIFICATIONS*

Model	MAX. Length	Max. Lift	Liquid Line O.D.	Suction Line O.D.
09	100'	35'	1/4"	1/2"
12	100'	35'	1/4"	1/2"
18	100'	35'	3/8"	5/8"
24	100'	35'	3/8"	3/4"

*System uses R-22 refrigerant.

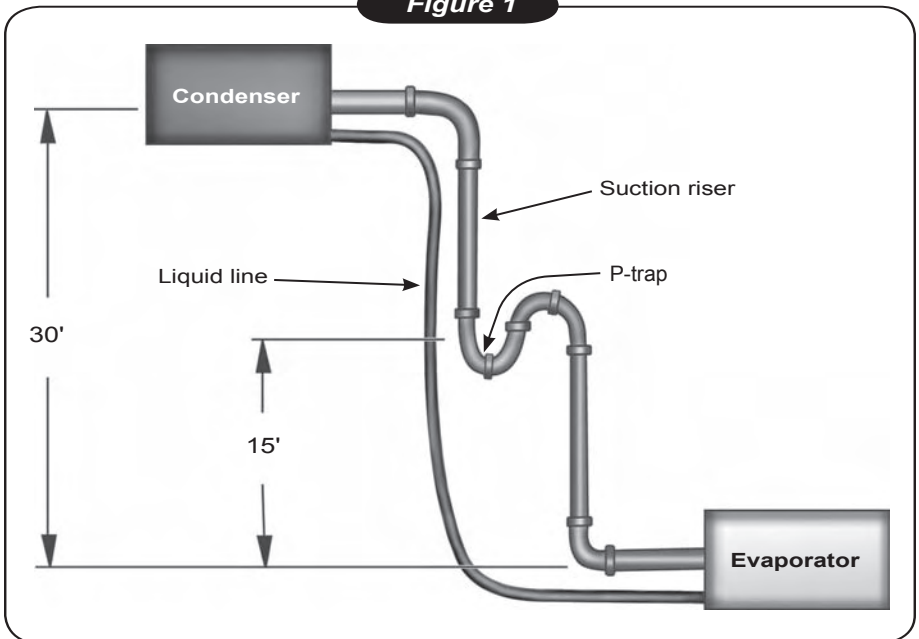
NOTE: It is recommended that a filter drier be installed in liquid line, at the indoor unit on models that a filter drier is not already factory installed (i.e. 18K and larger).

INSTALLATION INSTRUCTIONS

P-TRAP INSTALLATION

- A P-trap is recommended when the outdoor unit is above the indoor unit or if the suction riser is 20 feet or higher.
 - When the condenser is installed above the evaporator, the P-trap will help the return of oil back to the compressor.
 - The placement of the P-trap should be at the halfway mark of the suction riser. For example if the suction riser is 30 feet tall then a P-trap is recommended at the 15 foot mark of the suction riser (see Figure 1).
 - A P-trap may be fabricated using (3) street elbows and (1) regular elbow. A prefabricated trap may be purchased from a Wholesaler or Distributor. However, the trap should be shallow as the (3) elbow configuration. Each elbow is approximately 2 equivalent feet. One P-trap is equal to approximately 8 equivalent feet.
- NOTE:** Avoid excessive oil buildup. The P-trap should have a shallow depth and a short horizontal section.
- P-traps are not required at the foot of the hot gas risers due to increased oil flow at higher temperatures.

Figure 1



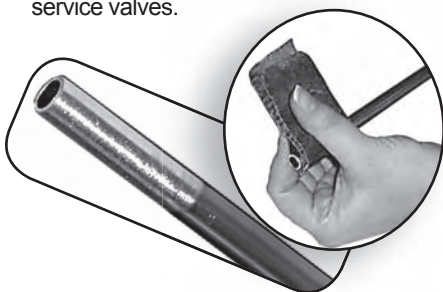
INSTALLATION INSTRUCTIONS

REFRIGERANT PIPING

1. Remove the protective caps from the ends of the service valves and shraders.



2. Clean the ends of tubing and insert into service valves.



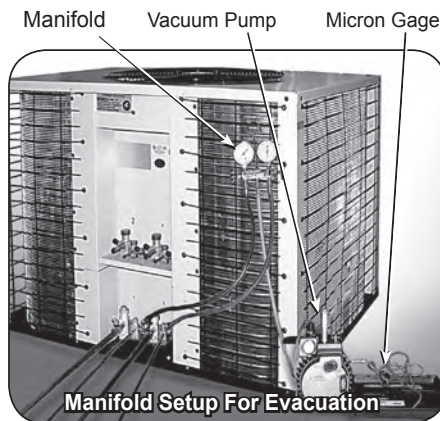
3. Protect the valves by wrapping with a wet rag "heat sink" before brazing. We also recommend the use of a shield (can be made from some scrap metal) to protect the paint.



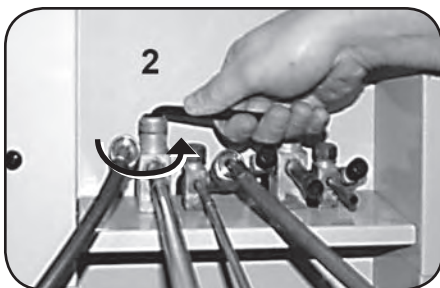
4. Braze tubing into fittings. (Repeat steps 1 through 4 for remaining connections.)

Note: Purge tubing with nitrogen when brazing.

5. Attach manifold set.



6. Evacuate line to 500 or less microns to ensure all moisture has been removed and there are no leaks.

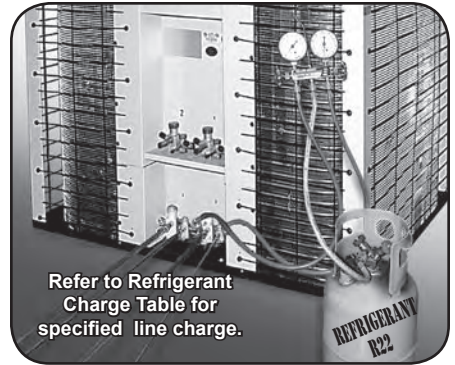


7. Once certain of a good evacuation and leak free joints, back-seat the service valves (counter clockwise) to open and allow factory charge to fill the lines and outdoor unit.

INSTALLATION INSTRUCTIONS

- Charge to proper weight charge based on your feet of interconnect (starting on page 9).
- Refer to Charts starting on page 10 to "fine tune" the refrigerant charge to meet your conditions.

Note: Charging should be done with a dial-a-charge or weighed in with a scale.



Refer to Refrigerant Charge Table for specified line charge.

REFRIGERANT PROCESSING

IMPORTANT NOTES:

- To find the charge adjustment and system charge for any evaporator and tubing length:
Line Adjustment = (Line Chg/Ft) x Line Length
System Total = Factory Charge + Line Adjustment
- Round to the nearest ounce and allow for gauges and hoses.
- Use R22 refrigerant.

REFRIGERANT CHARGE CHART

Circuit Capacity	Line Chg/Ft	Factory Charge	Ref.
09	.25 oz.	28 oz.	R-22
12	.25 oz.	30 oz.	R-22
18	.56 oz.	48 oz.	R-22
24	.56 oz.	60 oz.	R-22

WARNING

It is illegal to discharge refrigerant into the atmosphere. Use proper reclaiming methods & equipment when installing or servicing this unit.

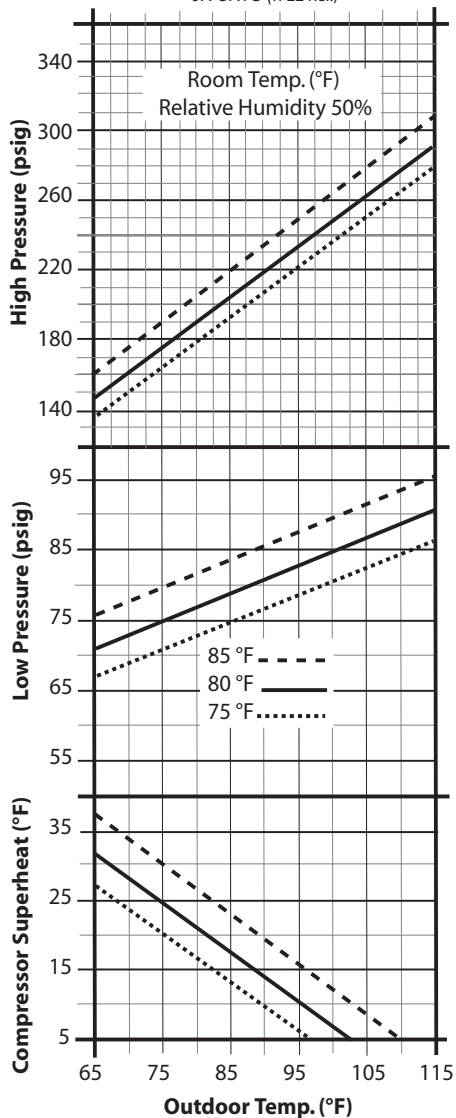
The units are delivered precharged with refrigerant for the condenser coil and the evaporator. Charging of the field installed piping is required. Refer to the refrigerant charge table for the proper amount to be added for the applications interconnect piping. Unit service valves are solid brass, for sweat connections.

IMPORTANT: All systems require field charge adjustments. Refer to the "Refrigerant Charge Chart" for proper weight charge and to the supplied "Operational Charts" for proper system pressures and temperature at different outdoor conditions. Superheat and subcooling method should be used for final system charge.

When charging and checking pressures/temperatures on system supplied with **Low Ambient Option, the fan cycle switch should be jumped out of the circuit temporarily to obtain accurate data.**

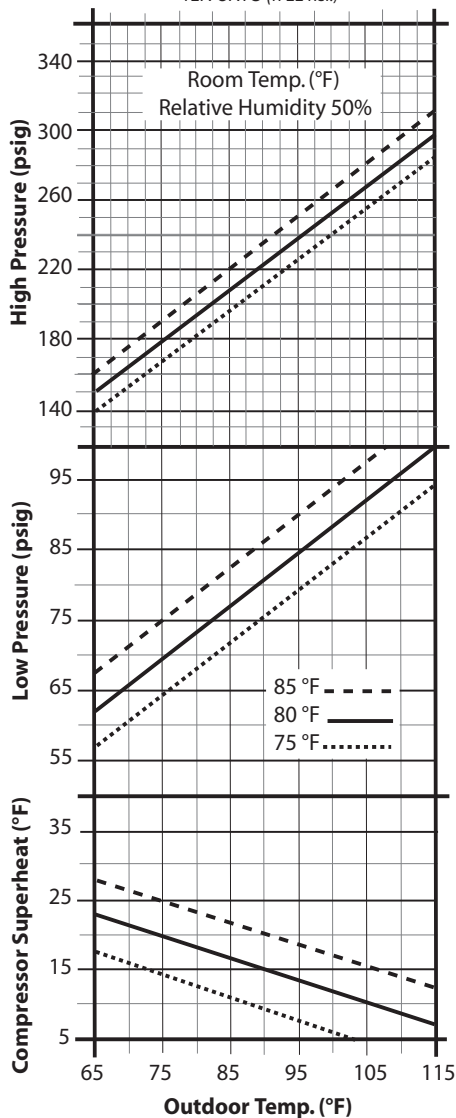
TOP DISCHARGE MULTI- ZONE OPERATION CHARTS

Cooling Cycle
Models Top Discharge
9K CKTS (R-22 Ref.)



Note: Minimum compressor superheat 5° F

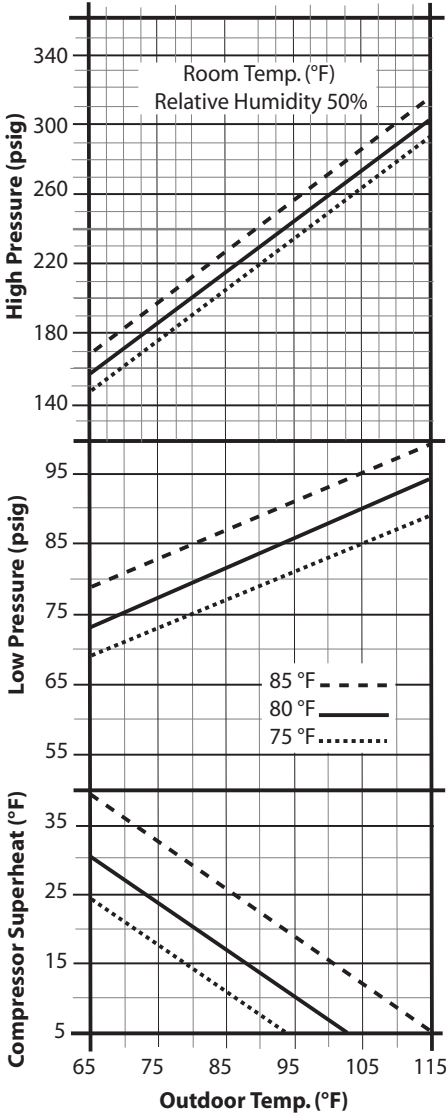
Cooling Cycle
Models Top Discharge
12K CKTS (R-22 Ref.)



Note: Minimum compressor superheat 5° F

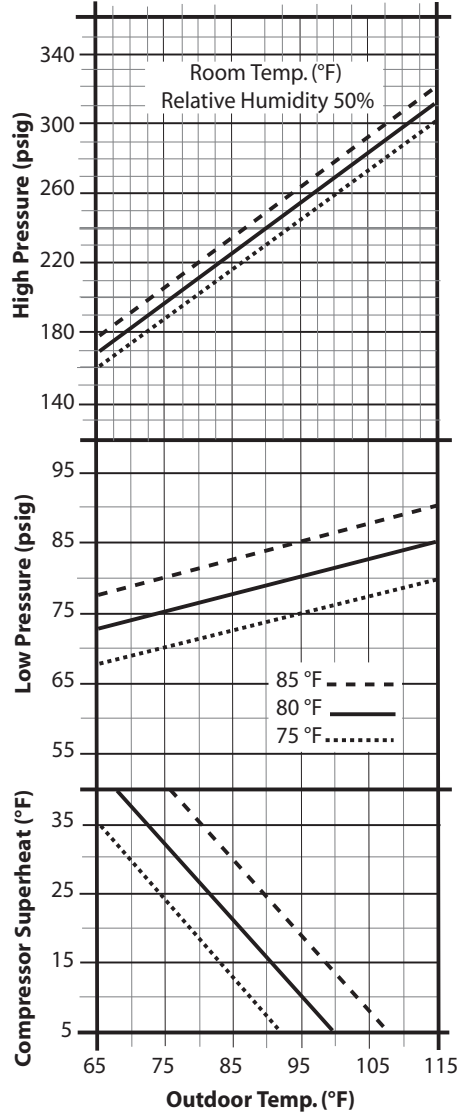
TOP DISCHARGE MULTI- ZONE OPERATION CHARTS

**Cooling Cycle
Models Top Discharge**
18K CKTS (R-22 Ref.)



Note: Minimum compressor superheat 5° F

**Cooling Cycle
Models Top Discharge**
24K CKTS (R-22 Ref.)



Note: Minimum compressor superheat 5° F

PREPERATION FOR START-UP

STARTING THE UNIT

- In low ambient cooling 9-12 Btuh units, if a crankcase heater is installed, power the system 24 hours before attempting to start the unit in cool weather (less than 60° F).
- After doing a final system check using the Operation Charts (supplied on previous pages) record results on Test Unit Data Sheet on page 17.

- Remove gauge set. Mount all access panels and make sure they are properly secured.
- Make final visual inspection and repair any deficiencies.

NOTE: *A hard start kit may be required for units in low voltage applications or in cold weather (see page 14).*

OPERATION AND MAINTENANCE

The T2C, T3C and T4C condensers are the compressor bearing units of the system. It operates at the command of the indoor section or room thermostat. Therefore, the system operation will be described in the manual pertaining to the indoor section.

EMI units are designed and constructed for reliability and long life with minimal maintenance. You can assure peak operating efficiency by regularly inspecting for free air passage into and through the coil. If debris collects on the air coil, it should be cleaned by "back-flushing" with a spray of water or vacuuming. **TURN OFF POWER SUPPLY FIRST.** Outdoor units may be cleaned or waxed if desired. Use a non-abrasive car wax (on metal surfaces only).

This unit is equipped with a permanently lubricated motor for low maintenance and does not require oiling.

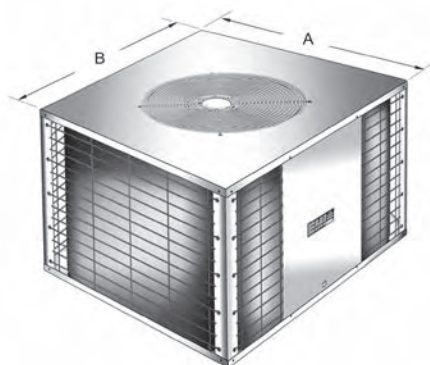
Panels should remain on the unit at all times. Service should be performed by a **QUALIFIED** service agency only.

SPECIFIC CHANGES

All EMI products are subject to on-going development programs so design and specifications may change without notice. Please consult the factory for more information.

TOP DISCHARGE SPECIFICATIONS AND DIMENSIONS

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



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



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

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

Note: Do not up size or alter line sizes.

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

TOP DISCHARGE SPECIFICATIONS

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

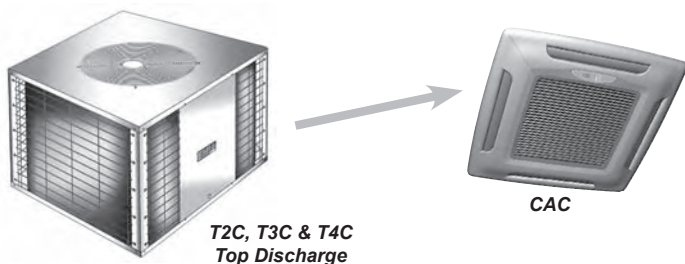


ARI Standard
210/240 UAC



TOP DISCHARGE MULTI-ZONE SYSTEM MATCHES

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



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 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 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

TOP DISCHARGE MULTI-ZONE SYSTEM MATCHES

Continued

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



**T2C, T3C & T4C
Top Discharge**



WLH

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	11.4	R22
WLHA09+WLHA24	T2CA98	27,000	13.0	.80	11.4	R22
WLHA24	T2CA84	41,000	13.0	.76	11.8	R22
WLHA2+WLHA24	T2CA24	34,000	13.0	.72	11.3	R22

SYSTEM OPTIONS WITH T3C TOP DISCHARGE

Wall Unit(s)	Condenser	Btuh	SEER	SHR	EER	Ref.
WLHA09+WLHA24	T3CA994	41,000	13.0	.77	11.6	R22
WLHA09	T3CA999	27,000	13.0	.80	11.7	R22
WLHA12	T3CA222	34,000	13.0	.71	11.1	R22
WLHA09+WLHA24	T3CA928	39,000	13.0	.77	11.6	R22
WLHA09+WLHA12 +WLHA24	T3CA924	43,000	13.0	.75	11.4	R22
WLHA12+WLHA24	T3CA228	41,000	13.0	.74	11.4	R22
WLHA09+WLHA12	T3CA922	32,000	13.0	.74	11.3	R22
WLHA09+WLHA12	T3CA992	30,000	13.0	.77	11.5	R22
WLHA09+WLHA24	T3CA998	36,000	13.0	.80	11.8	R22
WLHA12+WLHA24	T3CA224	46,000	13.0	.72	11.2	R22

SYSTEM OPTIONS WITH T4C TOP DISCHARGE

Wall Unit(s)	Condenser	Btuh	SEER	SHR	EER	Ref.
WLHA09	T4CA9999	36,000	13.0	.80	11.4	R22
WLHA12	T4CA2222	45,000	13.0	.73	11.7	R22
WLHA09+WLHA12	T4CA9222	42,000	13.0	.71	11.4	R22
WLHA09+WLHA12	T4CA9992	38,000	13.0	.71	11.3	R22
WLHA09+WLHA12	T4CA9922	41,000	13.0	.73	11.5	R22

TEST UNIT PERFORMANCE DATA SHEET

The Test Unit Performance Data sheet below is provided for use by a qualified service professional in the event that there is a problem with the unit. In order for our Technical Service Department to better serve you, please complete and have

this information ready when calling. Make sure to include the Model Number, Serial Number, Date of Installation.

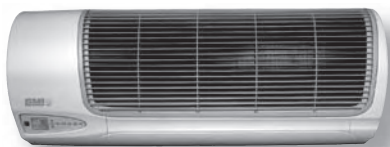
Call our Technical Support Department
@ 1-800-228-9364.

Test Unit Performance Data		
		Date:
Model Number		Technician:
Serial Number		Mode: Cooling
Indoor Section		Notes
Evaporator Entering Air - DB		
Evaporator Entering Air - WB		
Evaporator Leaving Air - DB		
Evaporator Leaving Air - WB		
Outdoor Section		
Entering Air		
Leaving Air		
Temperature Split		
Operating Pressures		
Compressor Suction - PSIG		
Compressor Discharge - PSIG		
Power Input		
Compressor - Volts		
Compressor - Amps		
OD Fan Motor - Volts		
OD Fan Motor - Amps		
ID Fan Motor - Volts		
ID Fan Motor - Amps		
Total Volts		
Total Amps		
Temperatures - Degrees F°		
Compressor Suction		
Compressor Discharge		
Liquid Out Cond.		
Liquid before Expansion		
Suction out Evaporator		
Capacity Calculations		
DB - Temp Split at evap.		
Test Summary		
Compressor Superheat		
Sub Cooling		

EMI'S PRODUCT LINE

EVAPORATORS

WLC/WLH
High Wall Evaporator



CAC
Cassette Evaporator

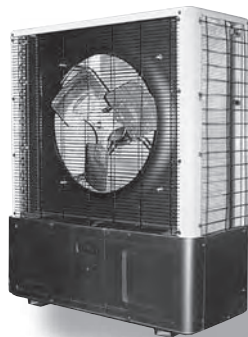


CONDENSERS

S1C & S1H Single Zone
Side Discharge



S2C Dual Zone
Side Discharge



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

ALL PRODUCT LIMITED WARRANTY

Enviromaster International LLC (EMI) warrants to the purchaser/owner that EMI products will be free from defects in material and workmanship under the normal use and maintenance for a period of twelve months for all components and sixty months on unit compressors from the date of original installation, or fifteen months for all components and sixty-three months on unit compressors from the date of manufacture, whichever comes first.

WHAT WE WILL COVER

EMI will replace any defective part returned to EMI's approved service organization with a new or rebuilt part at no charge. The replacement part assumes that unused portion of this warranty.

WHAT WE DON'T COVER

THIS WARRANTY DOES NOT INCLUDE LABOR or other costs incurred for repairing, removing, installing, shipping, servicing, or handling of either defective or replacement parts.

EMI IS NOT RESPONSIBLE FOR:

- Normal maintenance
- Damage or repairs required as a consequence of faulty installation or application by others.
- Failure to start due to voltage conditions, blown fuses, open circuit breakers, or other damages due to the inadequacy or interruption of electrical service.
- Damage or repairs needed as a consequence of any misapplication, abuse, improper servicing, unauthorized alteration, or improper operation.
- Damage as a result of floods, winds, fires, lightening, accidents, corrosive atmosphere, or other conditions beyond the control of EMI.
- Parts not supplied or designated by EMI.
- Products installed outside the United States or Canada.
- Any damages to person or property of whatever kind, direct or indirect, special or consequential, Whether resulting from use or loss of use of the product.

LIMITATION OF WARRANTIES

This warranty is exclusive and in lieu of any implied warranties of merchantability and fitness for a particular purpose and all other warranties express or implied. The remedies provided for in this warranty are exclusive and shall constitute the only liabilities on the part of EMI including any statements made by any individual which shall be of no effect.



FOR SERVICE OR REPAIR:

- (1) Contact the Installer
- (2) Call the nearest Distributor
- (3) Contact the Factory

Enviromaster International LLC
5780 Success Drive, Rome, NY 13440
www.enviromaster.com

