



# 13 SEER DUCTLESS SPLIT SYSTEMS

Full Line of Air Conditioners and Heat Pumps  
That Meet 13 SEER and 7.7 HSPF Requirements.





## Convenient, Efficient, Easy To Operate

*Made in the USA*

Whether you're adding on or modifying an existing commercial or residential structure, EMI America Series Ductless Split Systems make it easy to enjoy conditioned comfort minus the ductwork. Efficiently designed America Series Ductless Split Systems allow you to cut your energy costs by cooling or heating zones as required. Unlike central air, each zone is controlled independently allowing you to use energy wisely – only where and when you need it. Easily operated America Series systems feature your choice of unit mount digital controls, hand-held infra-red remote controls or 24-volt wall mount thermostats.



### *The EMI America Series Advantage*

EMI's America Series line of ductless split air conditioning is the most comprehensive, flexible and unique ductless line in the industry. Select from over 130 single or multi-zone systems for cooling only or heat pump applications. With exceptional performance, operating efficiency, and EMI exclusive features – the EMI America Series is the number one choice for "Comfort Where It Counts."

### *EMI America Series Systems Feature:*

- Optional electric heat on both straight cool and heat pump air handlers
- Standard single zone cooling operation down to 60°F (15°C) outside temperature
- Standard single and multi-zone heat pump operation down to 0°F (-18°C) outside temperature
- The flexibility of a full line of air handlers
- Air handler capabilities from 9,000 – 36,000 BTUH (2.6 – 10.5 kW)
- Low voltage interconnect between air handler and condenser
- 100 ft. of total interconnect (maximum of 35 ft. vertical lift)
- Factory-Installed Integral Condensate Pump (CACB/CAHB).  
Field-Installed Accessory Condensate Pump (WLCA/WLHA and UNCA/UNHA) with easy electrical and control connections
- All indoor units can be operated from a 24-Volt Wall Thermostat
- Schrader ports for ease of serviceability
- Multi-zone condensers and heat pumps capable of handling up to four different types of air handlers
- Multi-zone heat pumps are capable of simultaneous heating and cooling operation
- Brass service valves for isolation at condensers
- Condensate overflow protection



### **Peace of Mind**

*All America Series systems feature a 1-year parts and 5-year compressor warranty with additional 5 and 10 years parts and labor Comfort Plus Extended Warranties available.*



# 13 SEER MULTI-ZONE FLEXIBILITY

## Standard Comfort Features:

- *Simple operation with unit mounted digital control*
- *Fan cycling virtually eliminates variations in room temperature*
- *Electric heat available on all units (see charts for details)*

## Standard Installation and Service Features:

- *Simple electrical connections for condensate pump for the UNCA/UNHA and WLCA/WLHA*
- *Integral condensate drain overflow switch*

## SINGLE ZONE



*ONE Condenser with choice of ONE Air Handler style and capacity tailored to a one zone heating or cooling application.*

## MULTI-ZONE



*ONE Condenser with up to FOUR independent circuits, with individual Air Handler styles and capacities tailored to each zone.*



## Wall Air Handlers

- **WLC Series Cooling** (30,000 - 36,000 BTUH, 8.8 - 10.5 kW)
- **WLH Series Cooling & Heat Pump** (9,000 - 24,000 BTUH, 2.6 - 7.0 kW)

MODEL	NOMINAL COOLING CAP. BTUH, (kW)	NOMINAL HEATING CAP. BTUH, (kW)	OPTIONAL HEATING (115V)	OPTIONAL HEATING (208/230V)
WLHA09	9,000 (2.6)	8,200 (2.4)	.75 kW	3 kW
WLHA12	11,800 (3.4)	10,200 (3.0)	.75 kW	3 kW
WLHA24	18,000/24,000 (5.2/7.0)	16,400/20,600 (4.8/6.0)	.75 or 1.25 kW	3 or 5 kW
WLCA30	30,000 (8.8)	N/A	N/A	5 kW
WLCA36	33,600 (9.9)	N/A	N/A	5 kW

### Added Features Include:

- Sweep function on louvers provides a wide cooling area
- Dry mode allows for dehumidification, with minimal change in room temperature (requires electric heat)
- Selectable filter indicator notifies occupant when cleaning is required
- Condensate pump accessory includes integral safety switch with 48" (1.2 m) available lift
- Test mode overrides controls for easy start-up and diagnostics
- Optional wall thermostat or handheld IR control

## Cassette Air Handlers

- **CACB Series Cooling** (30,000 - 36,000 BTUH, 8.8 - 10.5 kW)
- **CAHB Series Cooling & Heat Pump** (9,000 - 24,000 BTUH, 2.6 - 7.0 kW)

MODEL	NOMINAL COOLING CAP. BTUH, (kW)	NOMINAL HEATING CAP. BTUH, (kW)	OPTIONAL ELECTRIC HEAT (208/230V)
CAHB12	9,000/11,800 (2.6/3.4)	8,000/10,800 (2.3/3.2)	1.5 kW
CAHB24	18,000/23,000 (5.2/6.7)	15,000/20,000 (4.4/5.9)	3.0 kW
CACB36	30,000/36,000 (8.8/10.5)	N/A	5.0 kW

### Added Features Include:

- Factory installed condensate pump includes integral safety switch with 36" (0.9 m) available lift
- Controls accept 24V wall thermostat
- Easily configured for fresh air intake and up to 2 branch discharge locations
- Motorized discharge vanes on CACB36 and CAHB24
- Infra-red compatible remote control with test mode
- Selectable filter indicator notifies occupant when unit needs filter change

## Universal Ceiling/Floor Mount Air Handlers

- **UNCA Series Cooling** (30,000 - 36,000 BTUH, 8.8 - 10.5 kW)
- **UNHA Series Cooling & Heat Pump** (9,000 - 24,000 BTUH, 2.6 - 7.0 kW)

MODEL	NOMINAL COOLING CAP. BTUH, (kW)	NOMINAL HEATING CAP. BTUH, (kW)	OPTIONAL HEATING (115V)	OPTIONAL HEATING (208/230V)
UNHA09	9,000 (2.6)	7,800 (2.3)	.75 kW	3 kW
UNHA12	11,800 (3.4)	10,200 (3.0)	.75 kW	3 kW
UNHA24	18,000/24,000 (5.2/7.0)	16,400/20,600 (4.8/6.0)	.75 or 1.25 kW	3 or 5 kW
UNCA36	30,000/32,600 (8.8/9.6)	N/A	N/A	5 kW

### Added Features Include:

- Single unit can be used in either a ceiling or floor mount application. Multiple drain pans are factory installed, no field modification required
- Dry mode allows for dehumidification, with minimal change in room temperature (requires electric heat)
- Test mode overrides controls for easy start-up and diagnostics
- Selectable filter indicator notifies occupant when cleaning is required
- Plastic filter grille standard, optional metal grille available
- Easily configured for fresh air intake
- Optional wall thermostat or handheld IR control
- Condensate pump accessory includes integral safety switch with 48" (1.2 m) or 144" (3.6 m) available lift

Wall Air Handler



Cassette Air Handler



Universal Ceiling Air Handler



Universal Floor Mount Air Handler



## Side Discharge Condensers

- **Single Zone S1C Series Cooling** (9,000 - 36,000 BTUH, 2.6 - 10.5 kW)
- **Single Zone S1H Series Heat Pump** (9,000 - 24,000 BTUH, 2.6 - 7.0 kW)
- **Dual Zone S2C Series Cooling** (18,000 - 24,000 BTUH, 5.2 - 7.0 kW)
- **Dual Zone S2H Series Heat Pump**  
(18,000 - 24,000 BTUH, 5.2 - 7.0 kW)



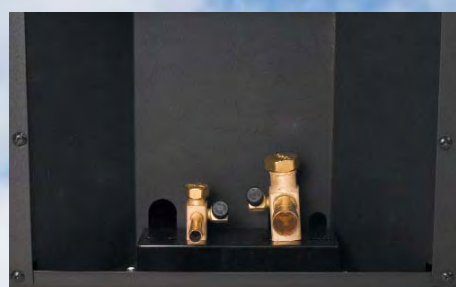
Side Discharge Condenser



Hail Guard/Wind Baffle Accessory



Independent Refrigerant Circuits



Service & Refrigerant Line Connections

### SINGLE ZONE

MODEL	NUMBER OF CIRCUITS	NOMINAL COOLING CAP. BTUH, (kW)	NOMINAL HEATING CAP. BTUH, (kW)
S1CA9000/S1HA9000	1	9,000 (2.6)	N/A / 8,200 (2.4)
S1CA2000/S1HA2000	1	12,000 (3.5)	N/A / 10,200 (3.0)
S1CA8000/S1HA8000	1	18,000 (5.2)	N/A / 16,400 (4.8)
S1CA4000/S1HA4000	1	24,000 (7.0)	N/A / 20,600 (6.0)
S1CA3000	1	30,000 (8.8)	N/A
S1CA6000	1	36,000 (10.5)	N/A

### DUAL ZONE

MODEL	NUMBER OF CIRCUITS	NOMINAL COOLING CAP. BTUH, (kW)	NOMINAL HEATING CAP. BTUH, (kW)
S2CA9900	2	18,000 (5.2)	N/A
S2CA9200	2	21,000 (6.2)	N/A
S2CA2200	2	23,000 (6.7)	N/A
S2HB9900	2	18,600 (5.5)	14,800 (4.3)
S2HB9200	2	20,600 (6.0)	16,600 (4.9)
S2HB2200	2	22,600 (6.6)	18,400 (5.4)

### Comfort Features:

- Standard cooling operation down to 60°F (15°C) outside temperature for S1C/S2C units, 32°F (0°C) for S1H and S2H
- Standard heat pump operation down to 0°F (-18°C) outside temperature
- Application flexibility with 100' (30.5 m) of interconnect refrigerant piping, supporting 35' (10.6 m) of elevation difference
- Side discharge cabinet with durable injection molded base and enclosed compressor compartment for reduced noise
- Coil ground clearance of 12" (0.3 m) provides added protection from the environment year round
- Front access to key components for ease of service
- Industry standard R22 refrigerant
- Easy access connections for refrigerant gauges
- Corrosion resistant, powder-coated steel cabinet with coil protection
- Factory installed Duratech Performance Package (S1C/S1H9, S1C/S1H2, and S2C/S2H only)
- Dual zone condensers and heat pumps have fully independent circuits with compressors on each circuit. Available in 9,000 BTUH (2.6 kW) and 12,000 BTUH (3.5 kW) circuits
- One year parts, five year compressor warranty

### Options:

- Low Ambient kits - field installed for operation down to 32°F (0°C) or 0°F (-18°C) (S1C, S1H, S2C)
- Hard Start Kit - assists compressor start-up under abnormal conditions such as low voltage
- 115V (9,000–12,000 BTUH, 2.6–3.5 kW). Consult factory for availability
- Copper/Copper coils (sea coast use)
- Condenser coil corrosion protection coating
- Hail Guard/Wind Baffle



## Top Discharge Multi-Zone Condensers

- **T2CA, T3CA & T4CA Series Cooling**  
(27,000 - 48,000 BTUH, 7.9 - 14 kW)
- **T2HB, T3HB & T4HB Series Heat Pump**  
(27,000 - 48,000 BTUH, 7.9 - 14 kW)

### Comfort Features:

- Standard heating operation down to 0°F (-18°C) outside temperature for T2HB, T3HB and T4HB
- Standard cooling operation down to 60°F (15°C) outside temperature for T2CA, T3CA and T4CA
- Up to 4 fully independent circuits
- Enhanced reliability with a compressor on each refrigerant circuit
- Application flexibility with standard refrigerant piping of 100' (16.6 m) interconnect, supporting 35' (30.5 m) of lift
- Industry standard R22 refrigerant
- Easy access connections for refrigerant gauges
- Corrosion resistant, powder-coated steel cabinet with coil protection
- One year parts, five year compressor warranty

### Options:

- For T2CA/T2HB units, 2 circuits with nominal capacity choices of 9,000, 12,000, 18,000 and 24,000 BTUH (2.6, 3.5, 5.2 and 7.0 kW) are available
- For T3CA/T3HB units, 3 circuits with nominal capacity choices of 9,000, 12,000, 18,000 and 24,000 BTUH (2.6, 3.5, 5.2 and 7.0 kW) are available
- For T4CA/T4HB units, 4 circuits with nominal capacity choices of 9,000 and 12,000 BTUH (2.6 and 3.5 kW) are available
- Low Ambient Kit - field installed for operation down to 32°F (0°C) outside temperature (T2CA, T3CA, T4CA only)
- Hard Start Kit - assists compressor start-up under abnormal conditions such as low voltage (T2CA, T3CA, T4CA only)
- 115V 9,000 - 12,000 BTUH, (2.6 - 3.5 kW) Consult factory for availability
- Condenser Coil Corrosion Protection Coating
- Copper/Copper coils (sea coast use)

### MULTI-ZONE

MODEL	NUMBER OF CIRCUITS	NOMINAL COOLING CAP. BTUH, (kW)	NOMINAL HEATING CAP. BTUH, (kW)
T2CA9800/T2HB9800	2	27,000 (7.9) / 27,200 (8.0)	N/A / 20,500 (6.0)
T2CA8800/T2HB8800	2	36,000 (10.6) / 36,000 (10.5)	N/A / 25,600 (7.5)
T2CA2400/T2HB2400	2	34,000 (10) / 35,000 (10.2)	N/A / 26,400 (7.7)
T2CA8400/T2HB8400	2	41,000 (12) / 42,000 (12.3)	N/A / 30,400 (8.9)
T2CA4400/T2HB4400	2	45,000 (13.2) / 48,000 (14.1)	N/A / 35,500 (10.4)
T3CA9990/T3HB9990	3	27,000 (7.9) / 27,800 (8.1)	N/A / 22,200 (6.5)
T3CA9920/T3HB9920	3	30,000 (8.8) / 29,800 (8.7)	N/A / 23,800 (7.0)
T3CA9220/T3HB9220	3	32,000 (9.4) / 31,800 (9.3)	N/A / 25,800 (7.6)
T3CA2220/T3HB2220	3	34,000 (10) / 34,000 (10.0)	N/A / 27,600 (8.1)
T3CA9980/T3HB9980	3	36,000 (10.6) / 36,400 (10.7)	N/A / 27,000 (7.9)
T3CA9280/T3HB9280	3	39,000 (11.4) / 38,500 (11.3)	N/A / 29,000 (8.5)
T3CA9940/T3HB9940	3	41,000 (12) / 42,500 (12.4)	N/A / 33,400 (9.8)
T3CA2280/T3HB2280	3	41,000 (12) / 40,500 (11.9)	N/A / 31,000 (9.1)
T3CA9240/T3HB9240	3	43,000 (12.6) / 44,500 (13.0)	N/A / 35,200 (10.3)
T3CA2240/T3HB2240	3	46,000 (13.5) / 46,500 (13.6)	N/A / 36,800 (10.8)
T4CA9999/T4HB9999	4	36,000 (10.6) / 37,200 (10.9)	N/A / 29,200 (8.5)
T4CA9992/T4HB9992	4	38,000 (11.1) / 39,000 (11.4)	N/A / 31,000 (9.1)
T4CA9922/T4HB9922	4	41,000 (12) / 41,000 (12.0)	N/A / 33,000 (9.7)
T4CA9222/T4HB9222	4	42,000 (12.3) / 43,000 (12.6)	N/A / 34,800 (10.2)
T4CA2222/T4HB2222	4	45,000 (13.2) / 45,000 (13.2)	N/A / 36,800 (10.8)

### SYSTEM CAPACITY GUIDE

Example: T2CA9800

Zone 1	Zone 2	Zone 3	Zone 4
9	8	0	0

Individual Zone Capacity:

- 9 = 9,000
- 2 = 12,000
- 8 = 18,000
- 4 = 24,000

Empty Zone = 0

— See Model Numbers for Specific Offerings —

For complete product information, please refer to individual unit specifications, installation and operation manual, and other product literature. Due to on-going product development, specifications are subject to change without notice.



An ISO 9001-2000 Certified Company



### Enviomaster International, LLC

5780 Success Drive • Rome, NY 13440  
 Phone: 800-325-5479 • Fax: 866-432-7329  
 E-Mail: [emi@enviomaster.com](mailto:emi@enviomaster.com)  
 Web: [www.enviomaster.com](http://www.enviomaster.com)

**USA Contractor Assistance: 800-325-5479**

### In Canada Contact:

PO Box 900 6800 Base Line,  
 Wallaceburg, Ontario, Canada N8A 5E5  
 Ph: 519-627-0791 • Fax: 519-627-4719  
 E-Mail: [info@ecrltd.com](mailto:info@ecrltd.com)  
 Web: [www.ecrltd.com](http://www.ecrltd.com)

