

comfort where it counts.



EnviroAir

13 Seer Ductless Split Systems



The EMI “Comfort Where It Counts” 13 SEER EnviroAir Ductless Split Systems

EnviroAir by EMI provides homeowners an economical solution to conventional ducted systems for spot cooling applications as well as cooling/heating needs for sunrooms and additions. EnviroAir systems meet the latest U.S. and Canadian energy efficiency standards with compact, stylish designs that easily blend with any decor and quality components for quiet, reliable long term cooling and heating comfort.



KWCA24D0
24,000 Btuh (7.1 kW)
Air Handler



Cost Efficient

The EnviroAir High Wall Ductless Split System has many advantages over a Room Air Conditioner. With its high efficiency, the EnviroAir unit has lower operating costs. Typical efficiency ratings of Room Air Conditioners range from 9.0 to 12.0. Using Atlanta, GA, a cost of electricity of \$0.10/kWh, and a 12,000 Btuh (3.5 kW) system as an example, the estimated annual operating costs are shown below:

| EnviroAir | Room Air Conditioner | | | |
|----------------------------------|----------------------|-------------------|-------------------|-------------------|
| 13.0 SEER \$383 | 9.0 EER \$615 | 10.0 EER \$553 | 11.0 EER \$503 | 12.0 EER \$461 |

Actual Operating Costs will vary with operating conditions, the room set point, habits or occupants, the geographical location of the house, the size of the unit relative to the load, and the cost of electricity.

Environmentally Friendly

The new 13 SEER EnviroAir utilizes R410A refrigerant which has an Ozone Depletion Factor of 0, protecting the ozone layer.

Easy to Use

All EnviroAir systems are equipped with an easy to use, large button, Remote Control as well as a unit mounted On-Off switch. With every command, an audible “melody” from the indoor unit acknowledges the signal. Fully programmable operating features and adjustable air vanes allow the user customized comfort. Operating modes include: Cooling, Heating (Heat Pumps Only), Dehumidification and Continuous Fan. An “Auto” setting conveniently allows for the option to cycle between settings to maintain optimum comfort.

In the event of a power failure programmed settings are retained in memory and an Auto-Restart feature automatically restarts the system.



Fully Programmable Remote

Simple Maintenance

Removable washable filters are factory provided for easy maintenance.



Washable Filter (All Models)

Quiet

Unlike a Room Air Conditioner, EnviroAir systems are quiet indoors and out. The indoor unit’s fan system provides air movement with little noise, thanks to the smooth air flow design. The compressor is located in the outdoor section, further reducing the indoor noise compared to a Room Air Conditioner. Outdoor unit compressors are isolated from the chassis with grommets, to prevent vibration transmission. Outdoor units are also shipped with vibration isolation pads for mounting. A Sleep Mode allows the indoor unit to operate even quieter when desired.

Peace of Mind

EnviroAir systems feature a limited 1-year parts and 5 year compressor warranty with additional 5 and 10 years parts and labor Comfort Plus Extended Warranties available.



Flexible Application

EnviroAir systems suit most applications with cooling operation down to 60°F (15.5°C) and heat pump operation down to 14°F (-10°C). For critical cooling, consult EMI for the appropriate AmericaSeries product recommendation. Heat Pumps are equipped with intelligent controls that optimize the operating time of the machine, defrosting only when necessary.

Easy and Flexible Installation

EnviroAir systems are sold as matched sets ensuring correct operation with only minor on site adjustments required. Expansion devices are factory supplied and installed for quick, easy installation assuring an efficient, reliable system.

Indoor units can be installed on most any wall requiring only minimal outdoor access for connections to condenser.

The outdoor units are pre-charged with R-410A (for up to 16.5 ft of line set) to keep moisture out and protect the system during shipping. Liquid and Gas service valves make isolating the system and charging easy. Indoor units are charged with dry air to keep moisture out and protect the system during shipment. Using dry air means no recovery time for the indoor unit. Flare connections at both the indoor and outdoor unit, allow for quick refrigerant line connections, saving time. (Flare connections also eliminate brazing, a source of potential system contamination.)

Accessory Line Sets are available with 25 feet of interconnecting wiring harnesses, and insulated gas and liquid lines. Additional condensate tubing of 6 feet and a wall penetration sleeve, insulation and escutcheon plate, make the installation easy and complete.



KWCA09A0
9,000 Btuh (2.6 kW) Air Handler



K1HA8000D00
18,000 Btuh (5.2 kW) Condenser

Installation accessories included with Tube Set



Cooling Units Only

| OUTDOOR | INDOOR | VOLTAGE | CAPACITY, BTUH (KW) | SEER |
|-------------|----------|--------------|---------------------|------|
| K1CA9000A00 | KWCA09A0 | 115-1-60 | 9,000 (2.6) | 13.0 |
| K1CA2000A00 | KWCA12A0 | 115-1-60 | 12,000 (3.5) | 13.0 |
| K1CA8000D00 | KWCA18D0 | 208/230-1-60 | 18,000 (5.2) | 13.0 |
| K1CA4000D00 | KWCA24D0 | 208/230-1-60 | 24,000 (7.1) | 13.0 |

Cooling Capacity is rated in accordance with ARI 210/240
Indoor Dry Bulb Air Temperature, 80°F (26.7°C)
Indoor Wet Bulb Temperature 67°F (19.4°C)
Outdoor Air Temperature 95°F (35.0°C)

Heat Pump Units

| OUTDOOR | INDOOR | VOLTAGE | COOLING | | HEATING | |
|-------------|----------|--------------|---------------------|------|---------------------|------|
| | | | CAPACITY, BTUH (KW) | SEER | CAPACITY, BTUH (KW) | HSPF |
| K1HA9000A00 | KWHA09A0 | 115-1-60 | 9,000 (2.6) | 13.0 | 9,000 (2.6) | 7.7 |
| K1HA2000A00 | KWHA12A0 | 115-1-60 | 12,000 (3.5) | 13.0 | 12,000 (3.5) | 7.7 |
| K1HA8000D00 | KWHA18D0 | 208/230-1-60 | 18,000 (5.2) | 13.0 | 18,000 (5.2) | 7.7 |
| K1HA4000D00 | KWHA24D0 | 208/230-1-60 | 24,000 (7.1) | 13.0 | 24,000 (7.1) | 7.7 |

Cooling Capacity is rated in accordance with ARI 210/240
Indoor Dry Bulb Air Temperature, 80°F (26.7°C)
Indoor Wet Bulb Temperature, 67°F (19.4°C)
Outdoor Air Temperature, 95°F (35.0°C)

Heating Capacity is rated in accordance with ARI 210/240
Indoor Dry Bulb Temperature, 70°F (21.1°C)
Outdoor Dry Bulb Temperature, 47°F (8.3°C)
Outdoor Wet Bulb Temperature, 43°F (6.1°C)

Note: As with all heat pump products, heating can be provided optimally down to 32°F (0°C) outdoor air temperature. If a heat source is required at lower temperatures, please contact your EnviroMaster International Representative for alternative solutions. This product is not recommended for critical cooling. Design and specifications are subject to change without prior notice.

RATINGS & SPECIFICATIONS: Single Zone – Cooling/Heat Pump

| SYSTEM PERFORMANCE | Model Number | KWCA09A0 Cooling | KWHA09A0 Heat Pump | KWCA12A0 Cooling | KWHA12A0 Heat Pump | KWCA18D0 Cooling | KWHA18D0 Heat Pump | KWCA24D0 Cooling | KWHA24D0 Heat Pump |
|---|--|----------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------------|---------------------|-----------------------|
| | Capacity-Cooling, Btuh (kW) | 9,000 (2.6) | | 12,000 (3.5) | | 18,000 (5.2) | | 24,000 (7.0) | |
| | Sensible-Cooling, Btuh (kW) | 6,700 (2.0) | | 8,500 (2.5) | | 13,500 (3.9) | | 17,500 (5.2) | |
| | SEER | 13.0 | | | | | | | |
| | Capacity-Htg., 47°F (8.3°C) Btuh (kW) | N/A | 9,000 (2.6) | N/A | 12,000 (3.5) | N/A | 18,000 (5.2) | N/A | 24,000 (7.0) |
| | Capacity-Htg., 17°F (-8.3°C) Btuh (kW) | N/A | 4,600 (1.3) | N/A | 6,400 (1.9) | N/A | 9,600 (2.8) | N/A | 12,500 (3.7) |
| | HSPF | N/A | 7.7 | N/A | 7.7 | N/A | 7.7 | N/A | 7.7 |
| | Maximum Line Length/Lift, ft. (m) | 32.8/16.4 (10.0/5.0) | | | | 50.0/16.4 (15.0/5.0) | | | |
| | Refrigerant | R-410A | | | | | | | |
| | Power Supply, Voltage-Phase-Hz | 115-1-60 | | 115-1-60 | | 208/230-1-60 | | 208/230-1-60 | |
| Control Voltage, Voltage-Phase-Hz | 115-1-60 | | 115-1-60 | | 208/230-1-60 | | 208/230-1-60 | | |
| System Min. Circuit Ampacity | 10.6 | | 14.0 | | 9.5 | | 13.8 | | |
| Max. Overcurrent Protection Device Amps | 15 | | 20 | | 15 | | 23.8 | | |
| Agency Approval | UL/ULc | | | | | | | | |
| Performance Verification | CSA | | | | | | | | |

| INDOOR UNIT SPECIFICATIONS | Model Number | KWCA09A0/KWHA09A0 | KWCA12A0/KWHA12A0 | KWCA18D0/KWHA18D0 | KWCA24D0/KWHA24D0 |
|-------------------------------------|--|---|--|--|--|
| | Fan Motor FLA | 0.35 | 0.35 | 0.4 | 0.4 |
| | Fan Hp (W) | 0.02 (16) | 0.02 (16) | 0.05 (40) | 0.05 (40) |
| | Controls | Infra-red Wireless Remote | | | |
| | Air Flow, CFM (l/s) | 340 (160) | 400 (189) | 610 (288) | 670 (316) |
| | Air Throw, ft (m) | 15 (4.5) | 15 (4.5) | 25 (7.5) | 25 (7.5) |
| | Fan Speeds | 3 | 3 | 3 | 3 |
| | Air Flow Deflection | Vertical | Vertical | Vertical & Horizontal | Vertical & Horizontal |
| | Sound Power Level, Low/High Speed, dBA | 42/56 | 45/55 | 50/65 | 48/62 |
| | Condensate Drain Connection OD, in. | 0.625 (17 mm) | 0.625 (17 mm) | 0.625 (17 mm) | 0.625 (17 mm) |
| | Cabinet Finish | Ivory | | | |
| | Shipping Dim., H x L x D, in. (mm) | 33.8 x 13.8 x 10.3 (859 x 351 x 262) | 39.8 x 13.8 x 10.3 (1011 x 351 x 262) | 50.8 x 15.6 x 12.4 (1290 x 396 x 315) | 52.6 x 15.4 x 12.0 (1336 x 391 x 305) |
| Shipping Wgt., lbs. (kg) | 26.5 (12) | 35.3 (16) | 48.5 (22) | 52.9 (24) | |
| Operating Dim., H x L x D, in. (mm) | 11.0 x 30.9 x 6.9 (279 x 784 x 175) | 11.0 x 36.2 x 6.9 (279 x 919 x 175) | 12.8 x 42.1 x 8.9 (325 x 1069 x 226) | 12.8 x 48.8 x 8.9 (325 x 1240 x 226) | |
| Operating Wgt., lbs. (kg) | 19.8 (9) | 30.9 (14) | 39.7 (18) | 44.1 (20) | |

| OUTDOOR UNIT SPECIFICATIONS | Model Number | K1CA9000A00/ K1HA9000A00 | K1CA2000A00/ K1HA2000A00 | K1CA8000D00/ K1HA8000D00 | K1CA4000D00/ K1HA4000D00 |
|-----------------------------|---------------------------------------|---|---|--|--|
| | Compressor RLA | 7.5 | 9.9 | 6.6 | 10.0 |
| | Compressor LRA | 47.0 | 53.0 | 42 | 46.0 |
| | Outdoor Fan RLA | 0.81 | 0.8 | 0.85 | 0.9 |
| | Outdoor Fan Hp (W) | 0.05 (35) | 0.06 (45) | 0.08 (60) | 0.08 (60) |
| | Factory Refrigerant Charge, lbs. (kg) | 1.96 (0.89) | 2.54 (1.16) | 4.40 (2.00) | 5.30 (2.41) |
| | Gas, in.- Connection Type | 1/2 - Flare | 1/2 - Flare | 5/8 - Flare | 5/8 - Flare |
| | Liquid, in. - Connection Type | 1/4 - Flare | 1/4 - Flare | 3/8 - Flare | 3/8 - Flare |
| | Refrigerant Control | Capillary Tube | | | |
| | Cabinet Finish | Ivory | | | |
| | Sound Power Level, dBA | 54 | 58 | 56 | 59 |
| | Shipping Dim., H x L x D, in. (mm) | 37.0 x 13.4 x 23.4 (940 x 340 x 594) | 39.2 x 16.4 x 27.2 (996 x 417 x 691) | 40.6 x 17.1 x 37.8 (1031 x 434 x 960) | 40.6 x 17.1 x 37.8 (1031 x 434 x 960) |
| | Shipping Wgt., lbs. (kg) | 77.2 (35) | 116.8 (53) | 147.7 (67) | 147.7 (67) |
| | Operating Dim., H x L x D, in. (mm) | 31.3 x 8.9 x 21.4 (795 x 226 x 544) | 33.5 x 11.4 x 24.0 (851 x 290 x 610) | 36.0 x 13.0 x 32.9 (914 x 330 x 836) | 34.3 x 11.4 x 33.5 (871 x 290 x 851) |
| Operating Wgt., lbs. (kg) | 68.3 (31) | 105.8 (48) | 136.7 (62) | 136.7 (62) | |

USA Contractor Technical Assistance:
800-325-5479

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.



2201 Dwyer Avenue • Utica, New York 13501
Phone: 800-325-5479 • Fax: 866-432-7329
E-Mail: emi@enviromaster.com
Web: www.enviromaster.com



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