

**EMI**  *AmericaSeries*  
*Comfort Where It Counts.*

# R-410A DUCTLESS SPLIT SYSTEMS

Single Zone Air Conditioners and Heat Pumps





## *The EMI America Series Advantage*

EMI's America Series line is specifically designed to meet the needs of the North American HVAC market. 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 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 (CACG/CAHG and CACH/CAHH). Field-Installed Accessory Condensate Pump (WLCG/WLHG and UNCG/UNHG) with easy electrical and control connections
- All indoor units can be operated from a 24-Volt Wall Thermostat
- Schrader ports for ease of serviceability
- 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.*



*America Series systems feature choice of unit mount digital controls, hand-held infra-red remote controls or 24-volt wall mount thermostats.*

## Wall Air Handlers

- **WLC Series Cooling** (30,000 BTUH, 8.8 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 ELECTRIC HEAT (208/230V)
WLHG09	9,000 (2.6)	9,000 (2.6)	3 kW
WLHG12	12,000 (3.5)	11,400 (3.3)	3 kW
WLHG24	18,000/23,800 (5.3/7.0)	17,600/20,800 (5.2/6.1)	3 or 5 kW
WLCG30	28,200 (8.3)	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

- **CAC Series Cooling** (30,000 - 36,000 BTUH, 8.8 - 10.5 kW)
- **CAH 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)
CAHG09/CAHH09	9,000 (2.6)	8,200 (2.4)	1.5 kW
CAHG12/CAHH12	12,000 (3.5)	10,600 (3.1)	1.5 kW
CAHG24/CAHH24	18,000/24,000 (5.3/7.0)	16,400/20,400 (4.8/6.0)	3.0 kW
CAHG36/CAHH36	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 CAHG/H24 and CACG/H36
- Infra-red compatible remote control with test mode CACH/CAHH models
- Selectable filter indicator notifies occupant when unit needs filter cleaning (CACH/CAHH)

## Universal Ceiling/Floor Mount Air Handlers

- **UNC Series Cooling** (30,000 BTUH, 8.8 kW)
- **UNH 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)
UNHG09	9,000 (2.6)	9,000 (2.6)	3 kW
UNHG12	12,000 (3.5)	11,200 (3.3)	3 kW
UNHG24	18,000/23,800 (5.3/7.0)	17,600/20,800 (5.2/6.10)	3 or 5 kW
UNCG30	28,200 (8.3)	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 Condenser



Hail Guard/Wind Baffle Accessory



Service & Refrigerant Line Connections

## Single Zone 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)

### SIDE DISCHARGE CONDENSERS – SINGLE ZONE

MODEL	NUMBER OF CIRCUITS	NOMINAL COOLING CAP. BTUH, (kW)	NOMINAL HEATING CAP. BTUH, (kW)
S1CG9000/S1HG9000	1	9,000 (2.6)	9,000 (2.6)
S1CG2000/S1HG2000	1	12,000 (3.5)	11,400 (3.3)
S1CG8000/S1HG8000	1	18,000 (5.2)	17,600 (5.2)
S1CG4000/S1HG4000	1	24,000 (7.0)	20,800 (6.1)
S1CG3000	1	30,000 (8.8)	N/A
S1CG6000 (match w/ cassette)	1	36,000 (10.5)	N/A

### Comfort Features:

- Standard cooling operation down to 60°F (15°C) outside temperature
- 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
- Environmentally friendly R-410A refrigerant
- Easy access connections for refrigerant gauges
- Corrosion resistant, powder-coated steel cabinet with coil protection
- 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)
- 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



An ISO 9001-2000 Certified Company



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