

**EMI**  EnviroAir  
*Comfort Where It Counts.*

[ DUCTLESS SPLIT SYSTEMS ]



EnviroAir Ductless Air Conditioners are designed for extra quiet operation and cooling comfort. With compact dimensions, they're perfectly suited for any interior application. EnviroAir systems utilize highly advanced features, the latest technology and quality components to ensure the ultimate in comfort and economical operating efficiency.



## Quiet & Comfortable

### Swing Control

A unique air distribution control causes the vanes to direct cool conditioned air towards the ceiling in summer. When mixed with the room air, the cooled air then gently descends towards the floor without creating any drafts. In winter, on heat pump models, the vanes direct the warm air towards the floor where the most benefit is felt. It then gently rises towards the ceiling by convection. The vanes can also be manually angled to any desired direction.



### Low Noise Airflow System

To provide a comfortable, well-balanced environment, EnviroAir air conditioners utilize a streamlined air fan and a unique air passage design to produce indoor airflow at the lowest possible noise level during operation. Fewer required fan revolutions, along with minimal friction means EnviroAir air conditioners are among the quietest in the world.

### Auto Restart

EnviroAir air conditioners employ an auto restart function which resets all operating functions to previous settings should a power failure or disconnection of power occur.

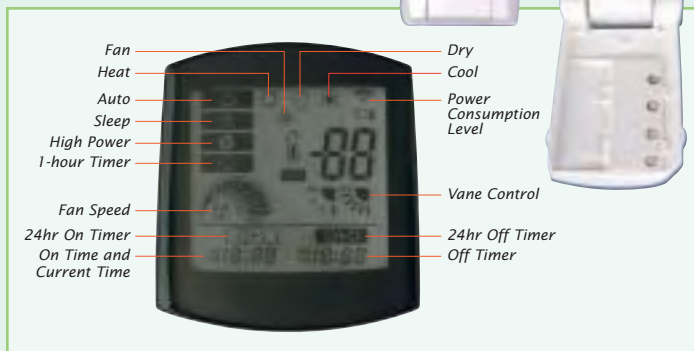
### Remote Control Convenience

The full-function remote control can operate the air conditioner from up to 30 feet away.



### Melody Operation

The air conditioner confirms signals received from the remote controller with long or short melodic tones.



## Ultra Clean

### Optional Bio Air Filters

EnviroAir air conditioners are available with an optional 3-step filter system for the cleanest, freshest room air possible.

- 1 The Bio Anti-Bacterial Filter helps prevent the breeding of harmful germs, bacteria and mold.
- 2 The Bio Electrostatic Air Filter removes minute dust particles as small as 0.01 microns.
- 3 The Bio Deodorizing Filter effectively eliminates unwanted room odors.



## Powerful

### High Power Mode

When High Power Mode is selected, the system operates at full speed for 15 minutes, regardless of the pre-selected temperature setting (cooling or heating) so that the desired room temperature can be achieved as quickly as possible. After the 15 minutes of High Power, the unit automatically returns to the previously selected mode.

- The High Power mode increases airflow by 10% by activating a super-high speed on the indoor cross flow fan, which is three steps higher than the "High" fan speed setting.
- The High Power Mode substantially reduces the required time to reach the desired room temperature, and is much quicker than conventional systems.



## Contractor Friendly

### Innovative Design

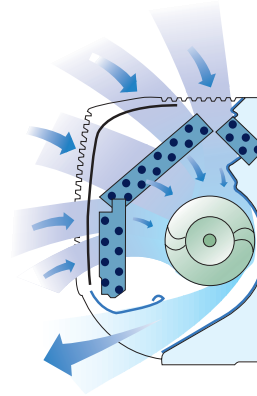
The indoor evaporator incorporates Hydrophilic Coated Aluminum Fins which improves the heat-exchange capacity by reducing air resistance. Additionally, the two-bend heat exchanger design maximizes the heat exchange surface within the limited space constraints to achieve greater efficiency and save energy. This configuration maximizes refrigerant distribution to the three heat exchanger elements for optimal air conditioning.

### Operates In Almost Any Environment

- Standard cooling down to 59° F (outside temperature)
- Expanded low ambient cooling operation down to 40° F (outside temperature) available with optional low ambient kit.

### Easy Installation and Service

- Control panel with one screw accessibility to wire air handler and condenser.
- Flared line set connections
- Built-in Schrader access port for ease of serviceability



Double Bend Heat Exchanger Design



Cross-flow Fan



Hydrophilic Coated Aluminum Fins

## Single Split Wall Mounted Systems

### COOLING 60Hz

<b>ECW 9000</b>
Cooling: 9,500 BTU/h
<b>ECW 12000</b>
Cooling: 12,000 BTU/h
<b>ECW 18000</b>
Cooling: 20,000 BTU/h
<b>ECW 24000</b>
Cooling: 24,000 BTU/h

### HEAT PUMP 60Hz

<b>EHW 12000</b>
Cooling: 12,000 BTU/h
Heating: 12,500 BTU/h
<b>EHW 18000</b>
Cooling: 20,000 BTU/h
Heating: 20,000 BTU/h
<b>EHW 24000</b>
Cooling: 24,000 BTU/h
Heating: 24,000 BTU/h



## Multi Split Wall Mounted Systems

### COOLING 60Hz

<b>EMCW 18000</b>
Cooling: 9,000 BTU/h + 9,000 BTU/h
<b>EMCW 24000</b>
Cooling: 12,000 BTU/h + 12,000 BTU/h

### HEAT PUMP\* 60Hz

<b>EMHW 18000</b>
Cooling: 9,000 BTU/h + 9,000 BTU/h
Heating: 9,000 BTU/h + 9,000 BTU/h
<b>EMHW 24000</b>
Cooling: 12,000 BTU/h + 12,000 BTU/h
Heating: 12,000 BTU/h + 12,000 BTU/h

\* Cooling and heating capacities shown are nominal capacities per circuit.



SYSTEM PERFORMANCE	SINGLE ZONE - COOL ONLY				SINGLE ZONE - HEAT PUMP			MULTI-ZONE - COOL ONLY*		MULTI-ZONE - HEAT PUMP	
	ECW9000	ECW12000	ECW18000	ECW24000	EHW12000	EHW18000	EHW24000	EMCW18000	EMCW24000	EMHW18000	EMHW24000
Capacity - cooling (Btu/h) (1)	9,500	12,000	20,000	24,000	12,000	20,000	24,000	18,000	24,000	17,400	21,000
Sensible - cooling (Btu/h)	7,030	8,760	14,200	16,800	8,760	14,200	16,800	12,600	15,500	11,700	14,100
SEER	10.9	10.6	10.7	10.3	10.4	10.3	10.0	10.9	10.6	10.0	10.0
Capacity - Heating (Btu/h) (2)	NA	NA	NA	NA	12,500	20,000	24,000	NA	NA	17,700	21,250
HSPF	NA	NA	NA	NA	7.2	6.9	6.8	NA	NA	6.8	6.8
System Minimum Circuit Ampacity	6.1	7.6	12.5	14.8	7.6	12.5	14.8	11.1	13.4	11.1	13.4
Power Supply (Volt/Phase/Hz)	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60
Control Voltage (Volt/Phase/Hz)	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60	220/1/60
Maximum Fuse Size (HACR) A	15	15	20	25	15	20	25	15	20	15	20

INDOOR UNIT SPECIFICATIONS	ACW09D00000B	ACW12D00000B	ACW18D00000B	ACW24D00000B	AHW12D00000B	AHW18D00000B	AHW24D00000B	ACM09D00000B	ACM12D00000B	AHM09D00000B	AHM12D00000B
Fan Motor FLA	0.22	0.22	0.36	0.35	0.26	0.31	0.25	0.22	0.22	0.22	0.22
Fan HP	0.06	0.06	0.1	0.1	0.03	0.05	0.1	0.06	0.06	0.06	0.06
Controls	INFRA-RED WIRELESS REMOTE	INFRA-RED WIRELESS REMOTE	INFRA-RED WIRELESS REMOTE	INFRA-RED WIRELESS REMOTE	INFRA-RED WIRELESS REMOTE	INFRA-RED WIRELESS REMOTE	INFRA-RED WIRELESS REMOTE	INFRA-RED WIRELESS REMOTE	INFRA-RED WIRELESS REMOTE	INFRA-RED WIRELESS REMOTE	INFRA-RED WIRELESS REMOTE
Air Flow (Dry CFM)	265	320	460	471	320	460	471	265 x 2	320 x 2	265 x 2	320 x 2
Air Flow Deflection	HORIZONTAL/VERTICAL	HORIZONTAL/VERTICAL	HORIZONTAL/VERTICAL	HORIZONTAL/VERTICAL	HORIZONTAL/VERTICAL	HORIZONTAL/VERTICAL	HORIZONTAL/VERTICAL	HORIZONTAL/VERTICAL	HORIZONTAL/VERTICAL	HORIZONTAL/VERTICAL	HORIZONTAL/VERTICAL
Sound Pressure Level dB(A)	33 (High Speed)	40 (High Speed)	50 (High Speed)	52 (High Speed)	40 (High Speed)	50 (High Speed)	52 (High Speed)	33 ea. (High Speed)	40 ea. (High Speed)	33 ea. (High Speed)	40 ea. (High Speed)
Refrigerant Control	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary	Capillary
Condensate Drain Connection (I.D.)	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Cabinet Finish Color	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory
Unit Dimensions H x L x D (inches)	10 <sup>7</sup> / <sub>8</sub> x 30 x 7 <sup>1</sup> / <sub>2</sub>	10 <sup>7</sup> / <sub>8</sub> x 30 x 7 <sup>1</sup> / <sub>2</sub>	11 <sup>3</sup> / <sub>4</sub> x 42 <sup>1</sup> / <sub>8</sub> x 8 <sup>7</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>4</sub> x 41 <sup>5</sup> / <sub>16</sub> x 7 <sup>1</sup> / <sub>2</sub>	10 <sup>7</sup> / <sub>8</sub> x 30 x 7 <sup>1</sup> / <sub>2</sub>	11 <sup>3</sup> / <sub>4</sub> x 42 <sup>1</sup> / <sub>8</sub> x 8 <sup>7</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>4</sub> x 41 <sup>5</sup> / <sub>16</sub> x 7 <sup>1</sup> / <sub>2</sub>	10 <sup>7</sup> / <sub>8</sub> x 30 x 7 <sup>1</sup> / <sub>2</sub> ea.	10 <sup>7</sup> / <sub>8</sub> x 30 x 7 <sup>1</sup> / <sub>2</sub> ea.	10 <sup>7</sup> / <sub>8</sub> x 30 x 7 <sup>1</sup> / <sub>2</sub> ea.	10 <sup>7</sup> / <sub>8</sub> x 30 x 7 <sup>1</sup> / <sub>2</sub> ea.
Weight (Lbs.)	19	19	33	29	19	33	29	19 x 2	19 x 2	19 x 2	19 x 2

OUTDOOR UNIT SPECIFICATIONS	CCW09D00000B	CCW12D00000B	CCW18D00000B	CCW24D00000B	CHW12D00000B	CHW18D00000B	CHW24D00000B	CCM09D00000B	CCM12D00000B	CHM09D00000B	CHM12D00000B
Compressor (RLA)	4.5	5.6	9.1	11	5.6	9.1	11	4.5	5.85	4.5	5.85
Amps 230V (LRA)	27	30	57	68	30	57	68	26	29	26	29
Fan RLA @ 230V	0.28	0.40	0.72	0.72	0.40	0.72	0.72	0.72	0.72	0.72	0.72
Fan HP @ 230V	0.08	0.11	0.20	0.20	0.11	0.20	0.20	0.20	0.20	0.20	0.20
Refrigerant Piping Size (Inches O.D.)	LIQUID 1/4" SUCTION 3/8"	LIQUID 1/4" SUCTION 1/2"	LIQUID 1/4" SUCTION 5/8"	LIQUID 3/8" SUCTION 5/8"	LIQUID 1/4" SUCTION 1/2"	LIQUID 1/4" SUCTION 5/8"	LIQUID 3/8" SUCTION 5/8"	LIQUID 1/4" SUCTION 3/8"	LIQUID 1/4" SUCTION 1/2"	LIQUID 1/4" SUCTION 3/8"	LIQUID 1/4" SUCTION 1/2"
Unit Dimensions H x L x D (inches)	20 <sup>13</sup> / <sub>16</sub> x 27 <sup>9</sup> / <sub>16</sub> x 7 <sup>11</sup> / <sub>16</sub>	21 <sup>1</sup> / <sub>4</sub> x 31 <sup>1</sup> / <sub>2</sub> x 10 <sup>7</sup> / <sub>16</sub>	28 x 35 x 12 <sup>1</sup> / <sub>2</sub>	28 x 35 x 12 <sup>1</sup> / <sub>2</sub>	21 <sup>1</sup> / <sub>4</sub> x 31 <sup>1</sup> / <sub>2</sub> x 10 <sup>7</sup> / <sub>16</sub>	28 x 35 x 12 <sup>1</sup> / <sub>2</sub>	28 x 35 x 12 <sup>1</sup> / <sub>2</sub>	28 x 35 x 12 <sup>5</sup> / <sub>8</sub>	28 x 35 x 12 <sup>5</sup> / <sub>8</sub>	28 x 35 x 12 <sup>5</sup> / <sub>8</sub>	28 x 35 x 12 <sup>5</sup> / <sub>8</sub>
Weight (Lbs.)	63	65	140	145	68	142	150	115	130	115	130
External Finish/Color	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory	Ivory
Sound Pressure Level dB(A)	46	46	54	55	46	54	55	46	46	46	46
Agency Approvals	ETL / ETL	ETL / ETL	ETL / ETL	ETL / ETL	ETL / ETL	ETL / ETL	ETL / ETL	ETL / ETL	ETL / ETL	ETL / ETL	ETL / ETL



Comfort Where It Counts.

An **ECR** International Brand

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An ISO 9001-2000 Certified Company

### REMARKS:

- Cooling capacities are based on indoor air temperature of 86.6°F DB, 67.1°F WB and outdoor temperature of 95°F DB, 75.2°F WB.
- Heating capacities are based on indoor air temperature of 69.8°F DB and outdoor air temperature of 44.6°F DB, 42.8°F WB.
- Rated in accordance with ARI 210/240.
- Consult ECR International for warranty information.
- Design and specifications are subject to change without prior notice for product improvement.
- Note:** As with all heat pump products, heating can be provided optimally down to 32°F outdoor air temperature. If you require a heat source at lower temperatures, please contact Customer Service for alternate solutions.

### OPTIONS:

- Bio Air Filters
- Low Ambient Kit

