

## ECO-AIR AIR CONDITIONING

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### INDEX

ACCESSORIES	
GEOTHERMAL .....	3-8
INSTALLATION .....	3-7
LINE SETS .....	3-7
WIRING CABLE .....	3-8
CIRCULATOR PUMPS (PRO-TECH MODEL) .....	3-8
DC INVERTER SINGLE ZONE HEAT PUMP .....	3-6
DC INVERTER TECHNOLOGY .....	3-3
INTRODUCTION	
SPLIT SYSTEMS .....	3-2
LIGHT COMMERCIAL SINGLE ZONE A/C AND HEAT PUMP .....	3-7
MULTI-ZONE A/C AND HEAT PUMP — DC INVERTER .....	3-6
PORTABLE AIR CONDITIONERS — R410A .....	3-8
SYSTEM CONFIGURATIONS .....	3-4 – 3-5

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### INTRODUCTION

Eco-Air and Tili HVAC systems offer a range of solutions for residential and commercial air conditioning applications that are cost efficient, quiet and attractive. They provide a smart alternative to both central HVAC and window-

mounted air conditioners, and are available in a variety of configurations to suit different cooling and heating situations.

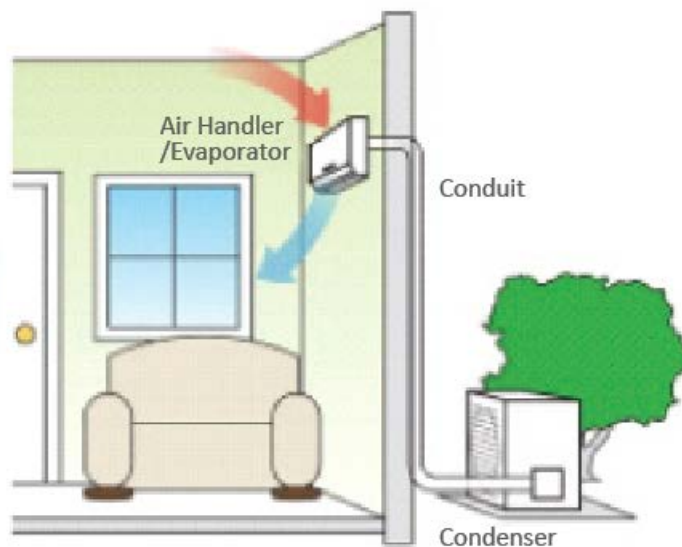
### SPLIT SYSTEMS

These innovative systems are split into indoor and outdoor units. The interior units are available in several different configurations: standard wall-mounted, ceiling cassettes, console and concealed duct. All interior units have remote controls for easy use or wall wired control. No duct work or sheet metal is needed. Single, dual, tri-zone and quad systems, as well as cooling only and heat pump models are available.

Mini-splits are the ideal solution for conditioning areas where adding ductwork is impractical or too expensive. Mini-splits are easily installed with the condensing unit located outside and the air handler(s) mounted inside. A hole less than 3" in diameter is all that's required to connect lines and wires between the outdoor and indoor components. Units come precharged with environmentally friendly R-410A.



# INVERTER



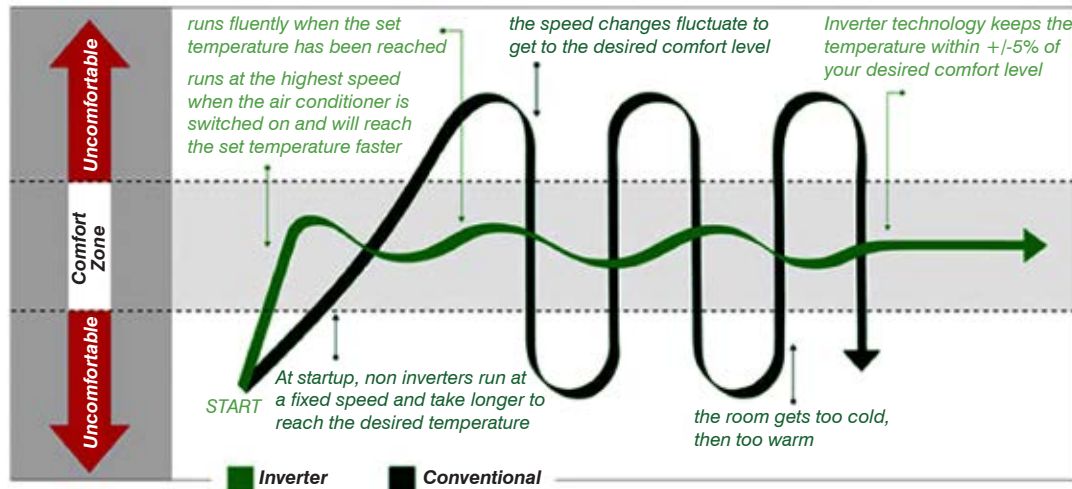
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## DC INVERTER TECHNOLOGY

Inverter heat pump air conditioners use a variable speed compressor; rather than the constant speed found in conventional ACs. When reducing energy costs with an air conditioner, an inverter is a must. The inverter technology lowers energy consumption by up to 50% compared to a

conventional air conditioner. Instead of shutting off once the desired temperature is reached, the inverter compressor continues to operate at low speed to maintain that temperature. It is quieter to operate and uses less energy than conventional ACs, which cycle on and off.



## DC INVERTER SEER 15 SERIES SINGLE ZONE HEAT PUMP



### The outstanding features and benefits

- |                                    |                              |                                 |
|------------------------------------|------------------------------|---------------------------------|
| Anti-cold-air (Heat pump only)     | Independent dehumidification | Sleep mode                      |
| Low noise airflow system           | Two-direction airflow        | Low ambient cooling and heating |
| Turbo operation                    | Auto Swing                   | Self-diagnosis function         |
| Horizontal and vertical auto swing | Follow me                    | Fan only function               |
|                                    | Multi-bend evaporator        | Refrigeration leakage detect    |
|                                    | Hydrophilic aluminum fin     | Auto defrosting                 |

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## SYSTEM CONFIGURATIONS

### DC INVERTER SEER 15 SERIES SINGLE ZONE

**Available Models:**

- MS11D-09HRDN1-BN10W
- MS11D-12HRDN1-BN10W
- MS11D-18HRDN1-MN10W
- MS11D-22HRDN1-MN10W
- MSC-30HRDN1-MP0W
- MSC-36HRDN1-MN5W



### DC INVERTER SEER 20 SERIES SINGLE ZONE

**Available Models:**

- MSV1-09HRFN1-MT0W
- MSV1-12HRFN1-MT0W
- MSV1-18HRDN1-MQ0W(A)
- MSV1-24HRDN1-MQ0W



### FREE MATCH MULTI-ZONE OUTDOOR UNITS

**Available Models:**

- M20C-18HRDN1-M
- M30C-27HRDN1-M
- M40C-36HRDN1-M



**Wall-mounted available models:**

- MSV11-09HRDN1-M
- MSV11-12HRDN1-M
- MSV11-18HRDN1-M



**Duct indoor available models:**

- MTBU-12HRDN1-M
- MTBU-18HRDN1-M
- MTB-24HRFN1-M



**Console indoor available models:**

- MFAU-12HRFN1-M



**Ceiling cassette available models:**

- MCA2U-12HRFN1-M
- MCA2U-18HRFN1-M
- MCD-24HRFN1-M

## SYSTEM CONFIGURATIONS (cont'd)

### LIGHT COMMERCIAL SINGLE ZONE OUTDOOR UNITS

**Available Models:**

MOC-12HFRN1-MS0W  
 MOF-18HFN1-MS0W  
 MOU-24HRN1-M



**Duct indoor available models:**

MTBU-12HRDN1-M  
 MTBU-18HRDN1-M  
 MTB-24HRFN1-M



**Console indoor available model:**

MFAU-12HRFN1-M



**Ceiling cassette available models:**

MCA2U-12HRFN1-M  
 MCA2U-18HRFN1-M  
 MCD-24HRFN1-M

### PACKAGED TERMINAL UNITS



**PTAC available models:**

MWP-07AEN1-MK9  
 MWP-09AEN1-MK3  
 MWP-12AEN1-MJ5  
 MWP-15AEN1-M16

### SIDE DISCHARGE CONDENSING UNITS



**Available models:**

MOF-18CN1-MM0W  
 MOG-24CN1-MM0W  
 MOJ-30CN1-MM0W  
 MOU-36CN1-MM0W

### PORTABLE AIR CONDITIONER UNITS



**Portable A/C available models:**

MPPD-14CRN1-BH9  
 MPPD-12CRN1-BH9

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### DC INVERTER SINGLE ZONE HEAT PUMP

#### Features

- Auto restart function
- Sleep mode
- Turbo mode
- Built-in silver ion filter
- LCD display
- Temp compensation
- Low ambient cooling
- Self-cleaning



ITEM #	MODEL	BTU/H	DESCRIPTION	SEER
838150	MS11D-09HRDN1-BN10W	9,000	115V/60Hz/1Ph.	15
838151	MS11D-12HRDN1-BN10W	12,000	115V/60Hz/1Ph.	15
838152	MS11D-18HRDN1-MN10W	18,000	208-230V/60Hz/1Ph.	15
838153	MS11D-22HRDN1-MN10W	22,000	208-230V/60Hz/1Ph. Built in Low Ambient Kit	15
838154	MSC-30HRDN1-MP0W	30,000	208-230V/60Hz/1Ph. Built in Low Ambient Kit	16
838155	MSC-36HRDN1-MN5W	36,000	208-230V/60Hz/1Ph. Built in Low Ambient Kit	14.5

### MULTI-ZONE A/C AND HEAT PUMP — DC INVERTER OUTDOOR SYSTEM MODEL

ITEM #	MODEL	COOLING AND HEATING CAPACITY (BTU/H)
838216	M20C-18HRDN1-M	18,000 and 18,000
838218	M30D(C)-27HRDN1-M	27,000 and 27,000
838221	M40C-36HRFN1-M	36,000 and 36,000



### INDOOR WALL MOUNT MODEL

ITEM #	MODEL	COOLING AND HEATING CAPACITY (BTU/H)
838212	MSV11-09HRDN1-M	9,000 and 10,000
838214	MSV11-12HRDN1-M	12,000 and 12,500
838224	MSV11-18HRDN1-M	18,000 and 18,500



### INDOOR DUCTED MODEL (FOR MULTI-ZONE AND LIGHT COMMERCIAL)

ITEM #	MODEL	COOLING AND HEATING CAPACITY (BTU/H)
838145	MTBU-12HRDN1-M	12,000 and 12,200
838146	MTBU-18HRDN1-M	18,000 and 18,600
838147	MTB-24HRFN1-M	24,000 and 25,000



### CEILING CASSETTE MODEL

ITEM #	MODEL	COOLING AND HEATING CAPACITY (BTU/H)
838230	MCA21-12HRDN1-M	12,000
838232	MCA21-18HRDN1-M	18,000



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### LIGHT COMMERCIAL SINGLE ZONE A/C AND HEAT PUMP OUTDOOR SYSTEM MODEL

ITEM #	MODEL	COOLING AND HEATING CAPACITY (BTU/H)	VOLTS
838069	MOU24HFN1-M	15,286	208/230



### SIDE DISCHARGE CONDENSING UNITS

ITEM #	MODEL	DESCRIPTION
838131	MOG-24CN1-MM0W	24,000 BTU Cooling only with 24V Control
838132	MOJ-30CN1-MM0W	30,000 BTU Cooling only with 24V Control
838133	MOU-36CN1-MM0W	36,000 BTU Cooling only with 24V Control



### CEILING CASSETTE MODEL

ITEM #	MODEL	COOLING AND HEATING CAPACITY (BTU/H)
838142	MCA2U-12HRFN1-M	12,000 and 12,400
838143	MCA2U-18HRFN1-M	18,000 and 18,400



### INDOOR CONSOLE MODEL

ITEM #	MODEL	BTU/H	VOLTS
838148	MFAU-12HRFN1-M	12,000	208/230

## ACCESSORIES

### LINE SETS

ITEM #	MODEL	LENGTH (FT)	USE ON COOLING CAPACITY (BTU/H)
838092	TCP09L15	15	9,000
838093	TCP09L25	25	9,000
838094	TCP09L50	50	24,000
838095	TCP12/18L15	15	12,000 and 18,000
838096	TCP12/18L25	25	12,000 and 18,000
838097	TCP12/18L50	50	12,000 and 18,000
838099	TCP24L25	25	24,000
838100	TCP24L50	50	24,000

### INSTALLATION

ITEM #	MODEL	DESCRIPTION
838156	PJ412D	Wall bracket (suitable for 9k-24k, max load 250 lbs)
838157	PJ412E	Wall bracket (suitable for 24k-36k, max load 350 lbs)
838158	SD01B	Riser supports for outdoor unit (suitable for 9k-36k)
838160	GCS-01B	Wall cover
838161	GC-02B	90° elbow (horizontal)
838162	GC-03B	Coupler
838163	GC-04B	Flexible duct joint
838164	GC-05B	90° elbow (vertical)
838165	GC-06B	Duct end
838166	GC-07B	Straight duct

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### ACCESSORIES (cont'd)

#### WIRING CABLE

ITEM #	MODEL	DESCRIPTION
838120	WS0675	AWG size: #16, 4 wires, length: 25 feet

#### GEOHERMAL

ITEM #	MODEL	DESCRIPTION
828690	GSGA-16	Gauge adapter c/w guard
828702	GSPT-25	1/4" P/T plug c/w cap
828704	GSPT-50	1/2" P/T plug c/w cap
828710	GSHK-75	Hose kit
828714	GSHK-100	Hose kit
828722	GSLM-2X	Loopmaster flow center – two pumps
828772	GSPI-60	Pressure inducer
852771	GSHPA-100	Heat pump adapter



### PORTABLE AIR CONDITIONERS — R410A

Portable air conditioners cool small spaces or large areas easily and have a dehumidification function that mixes cool, dry air to keep you comfortable.

#### Features:

- Programmable 24-hour timer controls temperature
- Includes remote control and electronic LCD controls for ease of use
- Washable replaceable filters
- Auto-cool, auto-evaporating system with a bucket-free design allows continuous use without removing water
- Adjustable louvers help direct airflow



ITEM #	MODEL	DESCRIPTION
838065	MPPD-12CRN1-BH9	Cooling: 12,000 BTU/H
838066	MPPD-14CRN1-BH9	Cooling: 14,000 BTU/H
838068	–	Fan Capacitor



#### Electronic Control Panel

Easy-to-operate light touch buttons with easy recognizable icons and LED display.

### CIRCULATOR PUMPS (PRO-TECH MODEL)

XC series circulator pumps can be used for single and double-heating systems and large-scale mixed-loop systems. They can be used to supply water and add pressure to existing industrial equipment to supply water in cycle for cooling air-conditioners, boilers and solar energy, supply hot water and keep warm in cycles.

ITEM #	MODEL	DESCRIPTION	PUMP LENGTH (")
838170	XC15-4SFC	115V/230V, 85W, Flanged	6-1/2
838172	XC15-5.5SNFC	115V/230V, 85W, Flanged	6-1/2
838174	XC15-6SFC	115V/230V, 100W, Flanged	6-1/2
838176	XC25-10SFC	115V/230V, 200W, Flanged	6-1/2



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