

OMEGA INVERTER TECHNOLOGY

INVERTER
TECHNOLOGY
EXPERT

Engineered to elevate efficiency and comfort
..... to the next level!



IEFC SERIES

Floor Ceiling

Inverter Air Conditioners 50Hz

Cooling Nominal: 18,000-60,000 BTU/h (5.3-16.0 kW)

Long Piping Distance (80 ~ 160 ft)

Product Features

- ✓ 16 SEER in Cooling Mode.
- ✓ Piping Distance up to 160 ft.
- ✓ Ideal for Small Commercial & industrial Applications
- ✓ Auto Restart.
- ✓ Heat Pump.
- ✓ Low Voltage Start Up.
- ✓ Factory Tested.
- ✓ Low Temperature Cooling Down to -5° C & High Temperature Cooling up to 50° C ambient.

Outdoor Unit Features

- ✓ DC Inverter Rotary Compressor.
- ✓ Electronic Expansion Valve.
- ✓ Super Quiet Operation.
- ✓ High Efficiency Coils with Hydrophilic Fins.
- ✓ Corrosion-Resistant Cabinet with Protective Coating.
- ✓ High & Low Pressure Protection.
- ✓ Discharge Temperature Protection.
- ✓ Phase Loss & Overcurrent Protection.
- ✓ PFC & IPM Module Protection.
- ✓ Self-Diagnostics.

Indoor Unit Features

- ✓ Wired Remote Control (Optional).
- ✓ Wireless Remote Control (Optional).
- ✓ Auto Setting for Cooling, Heating, Dehumidifying, Fan.
- ✓ Sleep Mode.
- ✓ Turbo Cooling Function with Multi-Speed Fan Control.
- ✓ Built-in Drain Pump.
- ✓ Easy Maintenance and Cleanable Cartridge Filters.
- ✓ Easy Connect Flare Connections.
- ✓ Low Temperature Dry Function.
- ✓ Anti-Freezing & Anti-High Temperature Protection.
- ✓ Sensor Malfunction Alarm.
- ✓ Communication Malfunction Alarm.
- ✓ Programmable 24 hours On/Off Timer.
- ✓ Under/Over Voltage protection.
- ✓ Built in Surge Protector.



OMEGA

DC INVERTER

OTEC
AIR CONDITIONING

A Product of
OMEGA
Environmental
Technologies LLC.

ISO 14001 ISO 9001

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INDOOR UNIT

MODEL NO.	IEFC	018J 3A-DWG053	024J 3A-DWG071	036J 3A-DWG105	048J 3A-DWG140	060J 3A-DWG160
Cooling Capacity BTU/h (kW)	Nominal	18,000 (5.3)	24,000 (7.1)	36,000 (10.5)	48,000 (14.0)	60,000 (16.0)
	Minimum	3,410 (1.0)	8,190 (2.4)	10,235 (3.0)	14,330 (4.2)	14,330 (4.2)
	Maximum	20,470 (6.0)	27,980 (8.2)	39,240 (11.5)	48,450 (14.2)	54,590 (16.0)
Efficiency	SEER	BTU/h / W (W/W)				16.0 (4.69)
Refrigerant Control		Electronic Expansion Valve @ Outdoor Unit				
Fan	Type	Centrifugal				
	QTY	1	1	2	2	2
	Speed	3	3	3	3	3
	Air Flow CFM (m³/hr) - Hi	470 (800)	590 (1000)	1060 (1800)	1060 (1800)	1175 (2000)
	Noise Level (dba) Lo/Hi	40 / 47	41 / 48	44 / 50	44 / 50	45 / 52
Coil Type:		Grooved Copper Tubes - Aluminum Blue Slit Fin				
Air Filter		Cleanable Cartridge Type				
Electrical	Voltage-Phase-Frequency		220-240V / 1Ph / 50Hz			
	Range (min-max)		198 ~ 264			
	FLA	0.57	0.59	0.45 * 2	0.45 * 2	0.73 * 2
	Power Input (W)	147	185	241	241	334
Controls		Wired Remote Control				
Refrigerant Connections inches (mm)		See Outdoor Unit Data				
Drain Connections inches (mm)		1 (25)				
Dimensions inches (mm)	Body Height	8 (203)	8 (203)	9 5/8 (244)	9 5/8 (244)	11 1/4 (285)
	Width	39 (990)	50 3/8 (1280)	65 3/4 (1670)	65 7/8 (1670)	65 3/4 (1670)
	Depth	26 (660)	26 (660)	26 (660)	26 (660)	26 (660)
Body Net Weight Lbs (kgs)		60.6 (27.5)	75.2 (34.1)	109.1 (49.5)	109.1 (49.5)	123.5 (56.0)

OUTDOOR UNIT

MODEL NO.	ICHD	018J 0A-DMG053	024J 0A-DMG071	036J 0A-DMG105	048J 0A-DMG140	060J 0A-DMG160
Compressor Type		DC Inverter Rotary				
Outdoor Fan	No of Fans	1	1	1	1	1
	Noise Level (dba)	54	55	59	59	60
Coil Type:		Grooved Copper Tubes - Aluminum Blue Slit Fin				
Compressor	Rated Amps (RLA)	7.85	8.85	14.5	27.5	27.1
	Power Input Nom. (W)	1602	2115	3109	5809	6600
Electrical	Voltage-Phase-Frequency		220-240V / 1Ph / N/A 3D			
	Range (min-max)		198 ~ 264			
	Min. Circuit Amps (MCA)	12.9	17.5	27.0	32.0	33.0
	Max Fuse Amps (MOCP)	20	25	30	40	40
Refrigerant R410 (oz./kgs.)		51.2 / 1.45	56.5 / 1.60	105.9 / 3.00	112.9 / 3.20	134.1 / 3.80
Refrigerant Connections inches (mm)	Type	Flare				
	Liquid	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
MAX Pipe Distance Ft.(m)	Suction	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
	Height	49.2 (15)	49.2 (15)	65.6 (20)	82.0 (25)	82.0 (25)
Dimensions inches (mm)	Length	82.0 (25)	82.0 (25)	98.4 (30)	164.0 (50)	164.0 (50)
	Height	21 1/8 (555)	28 (712)	33 1/8 (840)	33 1/8 (840)	34 1/8 (865)
	Width	31 1/4 (795)	35 7/8 (910)	37 3/8 (950)	37 3/8 (950)	41 (1040)
Net Weight	Depth	11 1/4 (287)	13 5/8 (345)	14 1/8 (360)	14 1/8 (360)	16 1/8 (410)
	Lbs (kgs)	73.9 (33.5)	103.6 (47.0)	149.9 (68.0)	173.1 (78.5)	200.6 (91.0)

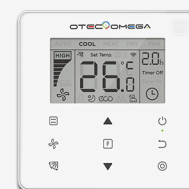
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Floor Ceiling
Inverter Air Conditioners 50Hz
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Long Piping Distance (80 ~ 160 ft)

5.3 - 7.1 kW



10.5 - 16.0 kW



Wired Controller
VAECR-D001 (Optional)



Wireless Controller
IAEWR-D001 (Standard)

Notes:

- Nominal capacities are based on ARI standards 210/240-89, air entering the indoor coil operating at high fan speed for 220V-240V setting. Cooling: 80/67° F (27/19° C) DB/WB indoor & 95° F (35° C) outdoor ambient temperature.
- Ratings are based on indoor and outdoor connected by 16ft (5m) of tubing.
- Refrigerant metering device is installed at the outdoor unit as standard.
- Flare fittings are provided for connecting indoor and outdoor units.
- Insulation of both liquid and suction line is required.
- Outdoor units are shipped with full operating charge.
- For details of model number nomenclature, please refer to publication OMGNM-1120.

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ISO 14001 ISO 9001

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