

INVERTER TECHNOLOGY CXPERT

# Engineered to elevate efficiency and comfort .....

...... to the next level!

### IEMP SERIES Medium ESP Ducted

Inverter Air Conditioners 50 Hz Cooling Nominal: 9,000-60,000 BTU/h (2.6-16.0 kW)

IEMP

ABATS

Long Piping Distance (80 ~ 160 ft)

#### **Product Features**

- ✓ 16 SEER in Cooling Mode.
- 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.
- ✓ Refrigerant-Cooled IPM Module.
- ✓ High & Low Pressure Protection.
- ✓ Discharge Temperature Protection.
- ✓ Phase Loss & Overcurrent Protection.
- ✓ PFC & IPM Module Protection.
- ✓ Self-Diagnostics.

omega

## **Indoor Unit Features**

- ✓ Wired Remote Control (Optional).
- Auto Setting for Cooling, Heating, Dehumidifying, Fan.
  Sleep Mode.
- Steep 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.









**DC INVERTER** 



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N'IL: **IEMP SERIES Medium ESP Ducted** 

				INDO	IEIVIP SERIES						
MODEL		009J	012J	018J	024J	031J	036J	042J	048J	060J	Medium ESP Ducted
NO.	IEMP	3A-DCG026	3A-DCG035	3A-DCG053	3A-DCG071	3A-DCG090	3A-DCG105	3A-DCG120	3A-DCG140	3A-DCG160	Inverter Air Conditioners 50 Hz
Cooling	Nominal	9,000 (2.60)	12,000 (3.50)	18,000 (5.30)	24,000 (7.10)	31,000 (9.00)	36,000 (10.5)	42,000 (12.0)	48,000 (14.0)	60,000 (16.0)	Cooling Nominal: 9,000-60,000 BTU/h (2.6-16.0 kW)
Capacity	Minimum	2,390 (0.70)	2,560 (0.75)	3,755 (1.10)	8,190 (2.40)	9,210 (2.70)	10,235 (3.00)	10,235 (3.00)	14,330 (4.20)	15,115 (4.43)	-
BTU/h (kW)	Maximum	11,940 (3.50)	12,625 (3.70)	20,130 (5.90)	27,980 (8.20)	32,755 (9.60)	38,215 (11.2)	40,945 (12.0)	47,085 (13.8)	52,885 (15.5)	Long Piping Distance (80 ~ 160 ft)
Efficiency	SEER BTU/h / W (W/W)					16.0 (4.69)					
Refrigerant C	Jontrol	Electronic Expansion Valve @ Outdoor Unit									
	Туре	Coaxial Turbo Fan									DTEC DMEGA
Fan	Speed / QTY	3/1	3/1	3/1	3/1	3/1	3/1	3/1	3/1	3/1	
lan	Air Flow CFM (m <sup>3</sup> /hr) - Hi	280 (480)	325 (550)	440 (750)	590 (1000)	880 (1500)	880 (1500)	880 (1500)	880 (1500)	1180 (2000)	2.6 - 9.0 kW
	Noise Level (dbA) Lo/Hi	23 / 33	25 / 34	28 / 37	29/38	36 / 45	36 / 45	36 / 45	36 / 46	36 / 46	2.0-9.0 KW
Coil Type:			Grooved Copper Tubes - Aluminum Blue Slit Fin								
Air Filter					Clr	eanable Cartridge T	/pe				
	Voltage-Phase-Frequency	220~240V / 1Ph / 50Hz									
Electrical	Range (min-max)	198 ~ 264									
	FLA	0.42	0.42	0.45	0.57	1.28	1.28	1.28	1.28	1.55	
Controls					I	Wired Remote Contr	ol				
Refrigerant C	Connections inches (mm)				S	See Outdoor Unit Da	ta				
Drain Connections inches (mm)						1 (25)			3		
Body	Height	8 1/4 (210)	8 1/4 (210)	8 1/4 (210)	8 1/4 (210)	10 5/8 (270)	10 5/8 (270)	10 5/8 (270)	10 5/8 (270)	11 3/4 (300)	670777
Dimensions in (mm)	Width	27 1/2 (700)	27 1/2 (700)	36 1/4 (920)	44 7/8 (1140)	44 7/8 (1140)	44 7/8 (1140)	44 7/8 (1140)	44 7/8 (1140)	55 1/8 (1400)	
	Depth	17 3/4 (450)	17 3/4 (450)	17 3/4 (450)	17 3/4 (450)	28 (710)	28 (710)	28 (710)	28 (710)	36 3/8 (925)	
Body Net Weight Lbs (kgs)		36.4 (16.5)	36.4 (16.5)	45.2 (20.5)	55.1 (25.0)	81.6 (37.0)	86.0 (39.0)	86.0 (39.0)	86.0 (39.0)	102.5 (46.5)	

OUTDOOR UNIT													
MODEL NO.	ICHD	<b>009J</b> 0A-DMG026	012J 0A-DMG035	018J 0A-DMG053	<b>024J</b> 0A-DMG071	<b>031J</b> 0A-DMG090	<b>036J</b> 0A-DMG105	<b>042J</b> 0A-DMG120	<b>048J</b> 0A-DMG140	060J 0A-DMG160			
Compressor T	уре	DC Inverter Rotary											
Outdoor Fan	No of Fans	1	1	1	1	1	1	1	1	1			
	Noise Level (dbA)	50	50	54	55	55	59	59	59	60			
Coil Type:		Grooved Copper Tubes - Aluminum Blue Slit Fin											
0	Rated Amps (RLA)	5.60	5.80	7.85	8.85	11.8	14.5	23.0	27.5	27.1			
Compressor	Power Input Nom. (W)	649	1159	1602	2115	3060	3109	4559	5809	6600			
	Voltage-Phase-Frequency	se-Frequency 220~240V / 1Ph / N/A 3D											
FLOCAT	Range (min-max)	198 ~ 264											
Electrical	Min. Circuit Amps (MCA)	8.80	8.80	12.9	17.5	23.0	27.0	27.0	32.0	33.0			
	Max Fuse Amps (MOCP)	15	15	20	25	30	30	30	40	40			
Refrigerant R410 ( oz./kgs. )		28.2 / 0.80	28.2 / 0.80	51.2 / 1.45	56.5 / 1.60	70.6 / 2.00	105.9 / 3.00	105.9 / 3.00	112.9 / 3.20	134.1 / 3.80			
Refrigerant	Туре	Flare											
Connections	Liquid	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)			
	Suction	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)			
MAX Pipe Distance Ft.(m)	Height	32.8 (10)	32.8 (10)	49.2 (15)	49.2 (15)	65.6 (20)	65.6 (20)	65.6 (20)	82.0 (25)	82.0 (25)			
	Length	49.2 (15)	49.2 (15)	82.0 (25)	82.0 (25)	98.4 (30)	98.4 (30)	98.4 (30)	164.0 (50)	164.0 (50)			
	Height	21 1/8 (555)	21 1/8 (555)	21 1/8 (555)	28 (712)	28 (712)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	34 1/8 (865)			
Dimensions inches (mm)	Width	28 3/8 (722)	28 3/8 (722)	31 1/4 (795)	35 7/8 (910)	35 7/8 (910)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	41 (1040)			
	Depth	10 1/4 (260)	10 1/4 (260)	11 1/4 (287)	13 5/8 (345)	13 5/8 (345)	14 1/8 (360)	14 1/8 (360)	14 1/8 (360)	16 1/8 (410)			
Net Weight	Lbs (kgs)	55.1 (25.0)	56.2 (25.5)	73.9 (33.5)	103.6 (47.0)	112.4 (51.0)	149.9 (68.0)	149.9 (68.0)	173.1 (78.5)	200.6 (91.0)			



10.5 - 16.0 kW





Wired Controller VAECR-D001 (Standard)

#### Notes:

410

**DC INVERTER** 

ISO 14001 ISO 9001

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 16H (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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