

OMEGA TECHNOLOGY

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



IEMP

IEMP SERIES

Medium ESP Ducted Fan Coil

Inverter Air Conditioner 50 Hz

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

Heating Nominal: 18,000 - 60,500 BTU/h (5.3 -17.7 kW)

Product Features

- ✓ Heating and Cooling System
- ✓ Ideal for Small Commercial & industrial Applications
- ✓ Auto Restart.
- ✓ Heat Pump.
- ✓ Low Voltage Start Up.
- ✓ Factory Tested.
- ✓ Discharge Heat Temperature Protection

Outdoor Unit Features

- ✓ Multiple Protection
- ✓ AC Fan Motor
- ✓ High-Efficiency Outdoor Fan
- ✓ Motor Overload Protection
- ✓ High/Low Pressure Protection
- ✓ Leakage Refrigerant Protection
- ✓ Optimized Air-Outlet Grill
- ✓ Anit Rust Metal Design
- ✓ Self Diagnostics

Indoor Unit Features

- ✓ Flexible Installation
- ✓ Sleek and Space Saving
- ✓ Multi-Position Air Intake
- ✓ Turbo Cooling Function with Multi-Speed Fan Control.
- ✓ Built in Drain Pump (Optional).
- ✓ Easy Maintenance and Cleanable Cartridge Filters.
- ✓ Dual-direction Drainage Pipe Design
- ✓ Auto-Restart
- ✓ Quiet Operation
- ✓ AC Fan Motor
- ✓ Standard Wired Controller
- ✓ Optional Wireless Controller



ISO 14001 ISO 9001

OTEC
AIR CONDITIONING

A Product of
OMEGA
Environmental
Technologies LLC.

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INDOOR UNIT

MODEL NO.	IEMP	018J3A -LCG053	024J3A -LCG070	030J3A -LCG090	036J3A -LCG105	048J3A -LCG140	060J3A -LCG160
Cooling Capacity BTU/h (kW)	Nominal	18,000 (5.3)	24,000 (7.0)	30,000 (9.0)	36,000 (10.5)	48,000 (14.0)	60,000 (16.0)
	Minimum	6,200 (1.8)	8,550 (2.5)	10,600 (3.1)	12,550 (3.7)	16,700 (4.9)	19,100 (5.6)
	Maximum	18,600 (5.5)	25,400 (7.5)	31,400 (9.2)	37,500 (11.0)	50,150 (14.7)	57,300 (16.8)
Cooling - EER (W/W)		3.01	3.02	3.21	3.02	3.01	3.02
Heating Capacity BTU/h (kW)	Nominal	19,500 (5.7)	26,000 (7.6)	32,000 (9.4)	39,400 (11.6)	52,500 (15.4)	58,000 (17.0)
	Minimum	6,800 (2.0)	6,800 (2.7)	11,450 (3.4)	13,800 (4.1)	18,400 (5.4)	20,300 (5.9)
	Maximum	20,400 (5.9)	27,200 (7.9)	34,100 (10.0)	41,300 (12.1)	54,950 (16.1)	63,800 (18.7)
Heating - COP (W/W)		3.42	3.42	3.41	3.41	3.41	3.42
Refrigerant Control		Electronic Expansion Valve @ Outdoor Unit					
Fan	Type	Centrifugal					
	Speed	4					
	Air Flow CFM (m3/hr) - Hi	500 (850)	650 (1100)	885 (1500)	885 (1500)	1295 (2200)	1295 (2200)
	Noise Level (dbA) - Hi/Lo	38/35	40/36	46/40	47/40	49/42	49/42
	Motor Inut (Watts)	58	68	74	140	180	180
FLA		0.26	0.31	0.34	0.64	0.82	0.82
Coil Type:		Grooved Copper Tube - Hydrophilic Blue Fin					
Air Filter:		Cleanable Cartridge Type					
Electrical	Voltage-Phase-Frequency	220-240V / 1PH / 50Hz					
	Range (min-max)	198 min ~ 264 max					
	Cooling Rated Amps (min/max)	8 (2.3/10.4)	10.5 (4.5/12.0)	12.6 (4.5/15.1)	15.8 (5.5/16.1)	7.6 (2.6/8.8)	8.2 (3.0/9.4)
	Heating Rated Amps (min/max)	7.5 (2.5/11.4)	10.0 (4.8/13.0)	12.6 (4.5/13.8)	15.5 (5.5/16.1)	7.3 (2.8/8.6)	8.1 (3.2/9.4)
Controls		Wired (Std.) & Wireless (Opt.)					
Refrigerant Connections inches (mm)		See Outdoor Unit Data					
Drain Connection inches (mm)		1 (25)					
Body Dimensions inches (mm)	Height	8 1/4 (210)	8 1/4 (210)	10 5/8 (270)	10 5/8 (270)	11 7/8 (300)	11 7/8 (300)
	Width	36 1/4 (920)	36 1/4 (920)	36 1/4 (920)	45 (1140)	47 1/4 (1200)	47 1/4 (1200)
	Depth	22 1/2 (570)	22 1/2 (570)	22 1/2 (570)	28 (710)	31 1/2 (800)	31 1/2 (800)
Net Weight Lbs (kgs)		47.3 (21.5)	48.4 (22)	57.2 (26)	81.4 (37)	96.8 (44)	96.8 (44)

OUTDOOR UNIT

MODEL NO.	ICHC	018J3A -LTG053	024J3A -LTG070	030J3A -LHG090	036J3A -LSG105	048J3A -LSG140	060J3A -LHG160
Compressor	Type	Rotary					
	No of Fans	1			2		
Outdoor Fan	Motor Input (W)	33	33	54	85	85	200
	Air Flow CFM (m3/h)	1765 (3000)	1765 (3000)	2120 (3600)	2120 (3600)	2945 (5000)	3295 (5600)
	Noise Level (dbA)	57	53	57	56	57	58
Coil Type:		Grooved Copper Tube - Hydrophilic Blue Fin					
Electrical	Voltage-Phase-Frequency	220-240V / 1PH / 50Hz			380-415V / 3PH / 50Hz		
	Range (min-max)	198 min ~ 264 max			342 min ~ 457 max		
	Comp. Power Input (W)	1740	2320	2750	3480	4670	5330
	Minimum Circuit Amps (MCA)	12.0	15.0	17.0	17.0	9.0	10.0
Maximum Fuse Amps (MOCP)		20	25	30	35	15	20
Refrigerant Charge R410a (oz./kgs.)		35.2 / 1.0	59.8 / 1.7	66.9 / 1.9	72.2 / 2.05	104.9 / 2.98	98.6 / 2.8
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)	3/8 (9.52)
	Suction	1/2 (12.70)	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
Max Pipe Distance Ft.(m)	Height	49.2 (15)	49.2 (15)	49.2 (15)	49.2 (15)	100 (30)	100 (30)
	Length	98.4 (30)	98.4 (30)	98.4 (30)	98.4 (30)	165 (50)	165 (50)
Unit Dimensions inches (mm)	Height	11 3/8 (288)	11 3/8 (288)	13 (330)	14 1/8 (360)	14 1/8 (360)	16 1/8 (410)
	Width	30 3/4 (780)	30 3/4 (780)	33 1/4 (845)	35 7/8 (910)	35 7/8 (910)	39 3/4 (1010)
	Depth	23 1/4 (590)	23 1/4 (590)	27 1/2 (699)	31 3/4 (805)	31 3/4 (805)	33 1/2 (850)
Net Weight Lbs (kgs)		61.6 (28)	68.2 (31)	94.6 (43)	103.4 (47)	143 (65)	165 (75)

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IEMP



ICHC018~036



ICHC048~060



Wired Controller



Wireless Controller

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 25ft (7.5m) of tubing.
- Refrigerant metering device is installed at the indoor unit as standard.
- Flare fittings are provided for connecting indoor and outdoor units.
- Insulation of suction line only is required.
- Outdoor units are shipped with full operating charge.
- For details of model number nomenclature, please refer to publication OMGNM-1117.

