

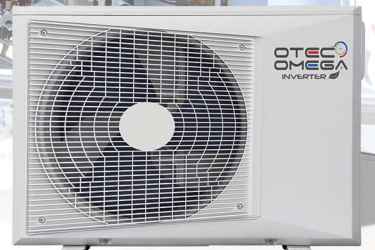
# OMEGA

TECHNOLOGY

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



IELP(MP,HP)



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## IELP(MP,HP) SERIES

16 SEER - Ducted Fan Coil

50 & 60 Hz Split Cooling & Heating System

Cooling Nominal: 18,000-55,000 Btuh (5.3 - 16.0kW)

Heating Nominal: 19,000-55,000 Btuh (5.6- 16.0kW)

### Product Features

- ✓ Up to 16 SEER Cooling
- ✓ Cooling and Heating System
- ✓ Auto Restart.
- ✓ Self-Diagnosis.
- ✓ R410A Refrigerant.
- ✓ Ideal for Small Commercial & Industrial Applications.

### Outdoor Unit Features

- ✓ Designed for Cooling @ 46C °/115F ° ambient.
- ✓ Super Quiet Operation.
- ✓ Copper Tubes / AL Fins Condenser.
- ✓ Twin Rotary Inverter Compressor
- ✓ 18K,24K,48K,60K are using Mitsubishi Compressor
- ✓ 36K is using GMCC Compressor
- ✓ Compressor Overload Protection.
- ✓ Electronic Expansion Valve
- ✓ Fixed Orifice
- ✓ Sensata Pressure Sensor
- ✓ Match-Well Pressure Switch
- ✓ Intelligent Proportional Integral Control Logic

### Indoor Unit Features

- ✓ R410A Environmental Refrigerant
- ✓ AC Fan Motor
- ✓ Flexible Installation
- ✓ Air Return
- ✓ Easy Maintenance for Filter
- ✓ Direct access for Electronic Control Box
- ✓ Low Static, Medium Static, High Static Selection
- ✓ Self-Diagnostic
- ✓ Multi-Protection
- ✓ Auto-Restart
- ✓ Quiet Centrifugal Blower
- ✓ Wired Controller (Standard)
- ✓ Remote Controller (Optional)
- ✓ 24V Thermostat (Optional)

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ISO 14001 ISO 9001

OTEC  
AIR CONDITIONING

A Product of  
**OMEGA**  
Environmental  
Technologies LLC.



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### INDOOR UNIT

MODEL NO.	IE	LP618K 2A-GCG063	MP624K 2A-GCG071	MP636K 2A-GCG105	HP648K 2A-GCG140	HP660K 2A-GCG160
Cooling Capacity Btuh (kW)	Nominal	18,000 (5.3)	24,000 (7.1)	36,000 (10.5)	48,000 (14.0)	60,000 (17.6)
Heating Capacity Btuh (kW)	Nominal	19,000 (5.6)	24,000 (7.1)	35,000 (10.3)	52,000 (15.2)	55,000 (16.1)
Efficiency - SEER	Btuh/W (W/W)	16.0 (5.9)				
Refrigerant Control		Electronic Expansion Valve @ Outdoor Unit				
Fan	Type	Centrifugal				
	Speed	4	4	4	4	4
	Air Flow CFM (m <sup>3</sup> /hr) - Hi	806 (1370)	918 (1560)	1294 (2200)	1471 (2500)	1471 (2500)
	Noise Level (dbA) - Hi/Lo	52/41	55/46	56/47	53/46	53/46
	Static Pressure (Pa)	25	25	37	50	50
	Pressure Range (Pa)	0~100	0~100	0~160	0~200	0~200
Motor Input (Watts)		210	265	340	510	510
Coil Type:		Grooved Copper Tubes - Hydrophilic Fin				
Air Filter:		Cleanable Cartridge Type				
Electrical	Voltage	208-230V-1PH-60Hz & 50Hz				
	Range	min 187 - max 253				
	FLA	0.9	1.2	1.6	2.2	2.2
Controls:		Wired Controller (Std.) - Remote Controller (Opt.) - 24V Thermostat (Opt.)				
Refrigerant Connections inches (mm)	Type	R410A				
	Liquid	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Suction	5/8 (15.88)	5/8 (15.88)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)
Drain Connection Inches (mm)		1 (25)				
Dimensions inches (mm)	Height	10 1/2 (260)	10 1/2 (260)	10 1/2 (260)	11 7/8 (300)	11 7/8 (300)
	Width	47 (1190)	47 (1190)	56 1/8 (1425)	52 1/4 (1325)	52 1/4 (1325)
	Depth	25 3/8 (643)	25 3/8 (643)	25 3/8 (643)	32 3/4 (830)	32 3/4 (830)
Net Weight	Lbs (kgs)	70.4 (32)	70.4 (32)	101.2 (46)	105.6 (48)	107.8 (49)



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### OUTDOOR UNIT

MODEL NO.	ICHE	618K 2A-GMG053	624K 2A-GMG071	636K 2A-GMG105	648K 2A-GMG140	660K 2A-GMG160
Compressor	Type	DC/Twin-Rotary				
	Rated Load Amps (RLA)	4.4	6.7	8.5	14.8	14.8
Outdoor Fan	No of Fans	1	1	1	1	1
	Motor Input (W)	152	152	197	370	370
	Air Flow CFM (m <sup>3</sup> /hr) - Hi	1941 (3300)	1941 (3300)	2470 (4200)	3235 (5500)	3530 (6000)
	Noise Level (dbA)	54	54	56	57	57
Coil Type:		Grooved Copper Tubes / AL Fins Condenser				
Electrical	Voltage	208/230V - 1Ph - 60Hz & 50Hz				
	Range (min-max)	min 187 - max 253				
	Cooling Pwr. Input Nom. (W)	1300	1960	1945	3960	3960
	Min. Circuit Amps (MCA)	6.4	9.6	12.2	20.7	20.7
	Max Fuse Amps (MOCP)	10.0	15.0	20.0	35.0	35.0
Refrigerant Charge R410a (oz./kgs.)		63.4 / 1.8	70.4 / 2.0	105.6 / 3.0	116.2 / 3.3	126.7 / 3.6
Refrigerant Connections inches (mm)	Type	Cooling: EXV - Heating: EXV		Cooling: EXV - Heating: EXV + Piston		
	Liquid	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Suction	5/8 (15.9)	5/8 (15.9)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)
Max Pipe Distance Ft.(m)	Height	32 (10)	32 (10)	32 (10)	32 (10)	32 (10)
	Length	100 (30)	100 (30)	100 (30)	100 (30)	100 (30)
Dimensions inches (mm)	Height	27 5/8 (702)	27 5/8 (702)	32 (810)	34 3/8 (870)	34 3/8 (870)
	Width	36 7/8 (935)	36 7/8 (935)	40 5/8 (1032)	43 3/8 (1100)	43 3/8 (1100)
	Depth	15 1/8 (383)	15 1/8 (383)	17 1/2 (445)	20 7/8 (528)	20 7/8 (528)
Net Weight	Lbs (kgs)	92.4 (42)	100.1 (45.5)	132 (60)	165 (75)	176 (80)



ICHE

### 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.
- Sweat 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 OGMNM-1117.

