

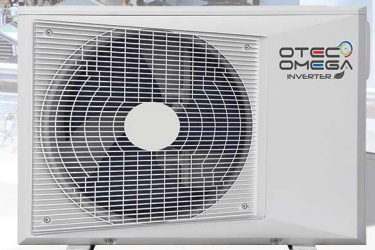
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TECHNOLOGY

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



IECR



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IECR SERIES

16 SEER - Round Flow Cassette

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
- ✓ Flexible Installation
- ✓ 360 Air Flow
- ✓ Built in Water Pump
- ✓ LED or Digital Display
- ✓ Self-Diagnostic
- ✓ Multi-Protection
- ✓ Auto-Restart
- ✓ Quiet Centrifugal Blower
- ✓ Remote Controller (Standard)
- ✓ Wired Controller (Optional)
- ✓ 24V Thermostat (Optional)

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AIR CONDITIONING

A Product of
OMEGA
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ISO 14001 ISO 9001

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Notes:

1. 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.
2. Ratings are based on indoor and outdoor connected by 25ft (7.5m) of tubing.
3. Refrigerant metering device is installed at the indoor unit as standard.
4. Sweat fittings are provided for connecting indoor and outdoor units.
5. Insulation of suction line only is required.
6. Outdoor units are shipped with full operating charge.
7. For details of model number nomenclature, please refer to publication OGMNM-1117.

INDOOR UNIT

| MODEL NO. | IECR | 618K | 624K | 636K | 648K | 660K |
|--|--|--------------------------|--------------|---------------|---------------|---------------|
| | | 2A-GWG053 | 2A-GWG071 | 2A-GWG105 | 2A-GWG140 | 2A-GWG160 |
| 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) | 34,000 (10.0) | 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 | 3 | 3 | 3 | 3 | 3 |
| | Air Flow CFM (m ³ /hr) - Hi | 705 (1200) | 705 (1200) | 1060 (1800) | 1060 (1800) | 1060 (1800) |
| | Noise Level (dba) - Hi/Lo | 52/45 | 52/45 | 54/44 | 55/46 | 55/46 |
| | Motor Input (Watts) | 140 | 140 | 230 | 280 | 280 |
| 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 | 0.6 | 1.0 | 1.0 | 1.0 | 1.4 |
| Controls: Remote Controller (Std.) - Wired Controller (Opt.) - 24V Thermostat (Opt.) | | | | | | |
| Refrigerant Connections | 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 | 9 (230) | 9 (230) | 11 1/4 (260) | 11 1/4 (260) | 11 1/4 (260) |
| | Width | 33 (840) | 33 (840) | 33 (840) | 33 (840) | 33 (840) |
| | Depth | 33 (840) | 33 (840) | 33 (840) | 33 (840) | 33 (840) |
| Net Weight | Lbs (kgs) | 61.6 (28) | 61.6 (28) | 63.8 (29) | 68.2 (31) | 68.2 (31) |
| | Height | 2 (50) | 2 (50) | 2 (50) | 2 (50) | 2 (50) |
| Dimensions inches (mm) | Width | 37 1/2 (950) | 37 1/2 (950) | 37 1/2 (950) | 37 1/2 (950) | 37 1/2 (950) |
| | Depth | 37 1/2 (950) | 37 1/2 (950) | 37 1/2 (950) | 37 1/2 (950) | 37 1/2 (950) |
| | Net Weight | Lbs (kgs) | 14.3 (6.5) | 14.3 (6.5) | 14.3 (6.5) | 14.3 (6.5) |

OUTDOOR UNIT

| MODEL NO. | ICHE | 618K | 624K | 636K | 648K | 660K |
|---|--|------------------------------|--------------|---------------|---------------|---------------|
| | | 2A-GMG053 | 2A-GMG071 | 2A-GMG105 | 2A-GMG140 | 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 ³ /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) | 6.1 | 9.4 | 11.6 | 19.5 | 19.9 |
| | Max Fuse Amps (MOCP) | 10.0 | 15.0 | 20.0 | 30.0 | 30.0 |
| 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 | Type | Cooling: EXV - Heating: EXV | | | | |
| | 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) |



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