

# OMEGA TECHNOLOGY

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



IEUC



ICVC

24 VOLT  
COMMUNICATION  
TECHNOLOGY

IEUC SERIES

18 SEER - Air Handler

50 & 60 Hz Certified Split Cooling System

Cooling Nominal: 24,000-60,000 Btuh (7.0 - 17.6 kW)

## Product Features

- ✓ Up to 18 SEER Cooling Only
- ✓ AHRI Certified & ETL Listed
- ✓ Auto Restart.
- ✓ Self-Diagnosis.
- ✓ Under & Over Voltage Protection.
- ✓ R410A Refrigerant.
- ✓ Ideal for Small Commercial & Industrial Applications.

## Outdoor Unit Features

- ✓ Designed for Cooling @ 64C°/118F° ambient.
- ✓ Super Quiet Operation.
- ✓ Copper Tubes / Gold Fin Condenser.
- ✓ Compressor Overload Protection.
- ✓ Multi-Protection
- ✓ Anti-Frosting
- ✓ High / Low Pressure Protection.
- ✓ Over Current Protection.
- ✓ Discharge Temperature Protection.

## Indoor Unit Features

- ✓ R410A Environmental Refrigerant
- ✓ AC Motor for 24k & 36k
- ✓ DC Motor for 48k & 60k
- ✓ Low Noise Design
- ✓ Galvanized Steel Cabinet
- ✓ Copper Tubing and Enhanced Aluminum Fin Coil
- ✓ TXV Expansion Device
- ✓ Durable Plastic Drain Pan
- ✓ Primary and Secondary Drainage Design
- ✓ Direct Drive Motor
- ✓ Φ10.8" Powerful Fan
- ✓ Accessible Blower Assembly
- ✓ Auto Restart
- ✓ Flexible Installation
- ✓ Horizontal & Vertical Installation
- ✓ Detachable Air Filter for Cleaning or Renewal
- ✓ 24V Thermostat (Std.)

OMEGA



OTEC  
AIR CONDITIONING

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

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. Certification applies to 60Hz operation only.
8. For details of model number nomenclature, please refer to publication OGMNM-1117.

### INDOOR UNIT

MODEL NO.	IEUC	824N	836N	848N	860N
Cooling Capacity Btuh (kW)	Nominal	24,000 (7.0)	36,000 (10.5)	48,000 (14.0)	60,000 (16.0)
Heating Capacity Btuh (kW)	Nominal	24,000 (7.0)	36,000 (10.5)	48,000 (14.0)	60,000 (16.0)
AHRI Certified Efficiency - SEER (Btuh/W)		18.0			
Fan	Type	Centrifugal			
	Speed	3			
	Air Flow CFM (m <sup>3</sup> /h)	780 (1326)	1300 (2210)	1500 (2550)	1750 (2975)
	Noise Level Hi/Lo dB(A)	63	66	67	68
	External Static Pressure	25	37.5	50	50
Motor Input (W)	616	880	1320	1320	
Throttle Type	TXV				
Coil Type:	Grooved Copper Tubes - Hydrophilic Aluminum Fins				
Electrical	Voltage	208/230V- 1Ph - 60Hz & 50Hz			
	Range	min 187 - max 253			
	FLA	2.8	4.1	6.0	6.0
Controls	24V Thermostat (Std.)				
Body Dimensions inches (mm)	Height	45 3/4 (1162)	45 3/4 (1162)	53 1/8 (1350)	53 1/8 (1350)
	Width	19 2/3 (500)	19 2/3 (500)	19 2/3 (500)	19 2/3 (500)
	Depth	22 (560)	22 (560)	24 1/2 (623)	24 1/2 (623)
Net Weight	Lbs (kgs)	126 (57)	126 (57)	170 (77)	176 (80)

### OUTDOOR UNIT

MODEL NO.	ICVC	824N	836N	848N	860N
Cooling Capacity	Btuh (kW)	24,000 (7.0)	36,000 (10.5)	48,000 (14.0)	60,000 (16.0)
Compressor	Type	Twin-Rotary DC			
	Rated Load Amps (RLA)	10.0	13.9	18.5	22
Outdoor Fan	Type	Axial Flow			
	No of Fans	1	1	1	1
	Motor Input (W)	110	110	200	200
	Air Flow CFM (m <sup>3</sup> /h)	1735 (2950)	1735 (2950)	2411 (4100)	2411 (4100)
Noise Level (dba) HI/Lo	63/52	63/52	65/54	65/54	
Coil Type:	Grooved Copper Tubes / Gold Fin Condenser				
Electrical	Voltage	208/230V - 1Ph - 60Hz & 50Hz			
	Range (min-max)	min 187 - max 253			
	Cooling Pwr. Input Nom. (W)	1935.0	1935.0	4040.0	4040.0
	Min. Circuit Amps (MCA)	15.3	21.5	29.1	33.5
	Max Fuse Amps (MOCP)	15.0	20.0	25.0	30.0
Refrigerant Charge R410a (oz./kgs.)	114 / 3.2		114 / 3.2		166 / 4.7
Refrigerant Connections inches (mm)	Type	Sweat			
	Liquid	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Suction	3/4 (19.1)	3/4 (19.1)	7/8 (22.2)	7/8 (22.2)	
Max Pipe Distance Ft.(m)	Height	50 (15)	50 (15)	50 (15)	50 (15)
	Length	100 (30)	100 (30)	100 (30)	100 (30)
Dimensions inches (mm)	Height	25 (633)	25 (633)	32 7/8 (835)	32 7/8 (835)
	Width	29 1/8 (740)	29 1/8 (740)	29 1/8 (740)	29 1/8 (740)
	Depth	29 1/8 (740)	29 1/8 (740)	29 1/8 (740)	29 1/8 (740)
Net Weight	Lbs (kgs)	150 (68)	150 (68)	194 (88)	194 (88)

