

OMEGA INVERTER TECHNOLOGY

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



IEUA



ICVE

IEUA/ICVE SERIES MULTI-POSITION Air Handler Inverter Split Cooling System

Cooling Nominal: 24,000-60,000 Btuh (7.0-17.5 kW)

Product Features

- ✓ 18 SEER in cooling mode.
- ✓ Auto Restart.
- ✓ Weekly Timer (On/Off).
- ✓ Self-Diagnosis.
- ✓ Low Voltage Start Up.
- ✓ Low Ambient Cooling.
- ✓ Electronic Expansion Valve.
- ✓ Wired System Controller.
- ✓ Under & Over Voltage Protection.
- ✓ Dirty Filter Indicator.
- ✓ 28 Error Code Display.
- ✓ R410a Refrigerant.
- ✓ ETL Listed & AHRI Certified.

Indoor Unit Features

- ✓ High Efficiency Fan Motor.
- ✓ Auto Setting for Cooling, Dehumidifying, Fan.
- ✓ Low noise design.
- ✓ Sleep Mode.
- ✓ Turbo Cooling Function with 3 speed fan.
- ✓ Horizontal & Vertical installation.
- ✓ Auto Restart.
- ✓ Easy Connect Sweat Connections.

Outdoor Unit Features

- ✓ DC Inverter Scroll & Rotary Compressor.
- ✓ Electronic Expansion Valve.
- ✓ Designed for Cooling @ 46C °/115F ° ambient.
- ✓ Super Quiet Operation.
- ✓ Micro Channel Condenser.
- ✓ Temperature Sensor.
- ✓ Compressor Overload Protection.
- ✓ High / Low Pressure Protection.
- ✓ Over Current Protection.
- ✓ Phase Loss Protection Cabinet.
- ✓ Fuzzy Control Technologies.
- ✓ Discharge High Temperature Protection.

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OTEC
AIR CONDITIONING

A Product of
OMEGA
Environmental
Technologies LLC.

ISO 14001 ISO 9001

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INDOOR UNIT

MODEL NO.	IEUA	002P 2A-RCI070	003P 0A-RCI105	004P 0A-RCI130	005P 0A-RCI160
Cooling Capacity Btuh (kw)	Nominal	24,000 (7.0)	36,000 (10.5)	48000 (14.0)	60,000 (17.5)
	Minimum	11,770 (3.45)	15,200 (4.45)	17810 (5.2)	25,100 (7.3)
	Maximum	26,500 (7.77)	39,900 (11.7)	46,400 (13.6)	54,500 (15.9)
Efficiency - SEER	Btuh/w (w/w)	18.0 (5.3)	18.0 (5.3)	18 (5.3)	18.0 (5.3)
Application Area	sqft (m2)	170-280 (16-26)	250-470 (23-44)	290-600 (27-55)	480-800 (45-75)
Dehumidification Amount	Pt/h (L/h)	2.96 (1.40)	3.80 (1.80)	5.28 (2.50)	7.40 (3.50)
Refrigerant Control	Electronic Expansion Valve @ Outdoor Unit				
Fan	Type	Centrifugal			
	Speed	3	3	3	3
	Air Flow CFM (m³/hr) - Hi	706 (1200)	1150 (1954)	1300 (2209)	1420 (2400)
	Noise Level (dbA) Hi/Lo	57	62	63	63
	Motor (Watts)	60	500	750	750
Coil Type:	Grooved Copper Tubes - Aluminum Blue Slit Fin				
Air Filter	Throw Away Type				
Electrical	Voltage	208/230-1-60			
	Range	min 187 - max 253			
	FLA	0.52	3.6	4.6	4.6
Controls	LCD Wireless Remote Control				
Refrigerant Connections inches (mm)	See Outdoor Unit Data				
Drain Connections inches (mm)	3/4 (19) 3/4 (19) 3/4 (19) 3/4 (19)				
Dimensions inches (mm)	Height	43 1/2 (1105)	43 1/2 (1105)	43 1/2 (1105)	43 1/2 (1105)
	Width	21 (532)	21 (532)	24 1/2 (621)	24 1/2 (621)
	Depth	21 1/4 (540)	21 1/4 (540)	21 1/4 (540)	21 1/4 (540)
Net Weight	Lbs (kgs)	125.4 (57)	138.6 (63)	162.8 (74)	162.8 (74)

OUTDOOR UNIT

MODEL NO.	ICVE	002S 2A-RMI070	003S 2A-RMI105	004S 2A-RMI130	005S 2A-RL160
DC Inverter Compressor Type	Scroll				Rotary
Outdoor Fan	No of Fans	1	1	1	1
	Noise Level (dbA)	67	72	73	73
Coil Type:	Micro channel				
Electrical	Voltage	208/230-1-60			
	Range (min-max)	min 187 - max 253			
	Running Amps (RLA)	9.7	13.2	13.2	21
	Cooling Pwr. Input Nom. (W)	2200	3010	3010	4580
	Min. Circuit Amps (MCA)	12.8	17.2	17.2	27.0
Max Fuse Amps (MOCP)	15	20	20	30	
Refrigerant R410 (oz./kgs.)	30.2 / 0.86 45.1 / 1.27 52.2 / 1.48 53.6 / 1.52				
Refrigerant Connections inches (mm)	Type	Sweat			
	Liquid	3/8 (10)	3/8 (10)	3/8 (10)	1/2 (12)
Max Pipe Distance Ft.(m)	Suction	5/8 (16)	3/4 (16)	7/8 (22)	7/8 (22)
	Height	49 (15)	49 (15)	49 (15)	49 (15)
Dimensions inches (mm)	Length	100 (33)	100 (33)	100 (33)	100 (33)
	Height	23 3/8 (620)	29 (735)	33 1/2 (850)	33 1/2 (850)
	Width	24 (610)	28 (710)	28 (710)	29 1/2 (750)
Net Weight	Depth	24 (610)	28 (710)	28 (710)	29 1/2 (750)
	Lbs (kgs)	114 (52)	156 (71)	169.4 (77)	211 (96)

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Standard Wired 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 outdoor unit as standard.
- Sweat 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 OGMNM-0115.

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