

# OMEGA TECHNOLOGY

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



SEUA



SCVC

## SEUA SERIES

14 SEER - Air Handler

60 Hz Certified Split Cooling System

Cooling Nominal: 18,000-60,000 Btuh (5.3 - 17.6 kW)

### Product Features

- ✓ Up to 14 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°/109F° ambient.
- ✓ Super Quiet Operation.
- ✓ Copper Tubes / Aluminum Fin Condenser.
- ✓ Compressor Overload Protection.
- ✓ Multi-Protection
- ✓ Anti-Freezing Protection
- ✓ High / Low Pressure Protection.
- ✓ Over Current Protection.
- ✓ Discharge Temperature Protection.

### Indoor Unit Features

- ✓ R410A Environmental Refrigerant
- ✓ 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
- ✓ Wired Controller (Std.)
- ✓ 24V Thermostat (Opt.)
- ✓ Remote Controller (Opt.)

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. For details of model number nomenclature, please refer to publication OGMNM-1117.

### INDOOR UNIT

MODEL NO.	SEUA	418S	424S	430S	436S	442S	448S	460S
		2A-GNE053A	2A-GNE070A	2A-GNE090A	2A-GNE105A	2A-GNE125A	2A-GNE140A	2A-GNE160A
Cooling Capacity Btuh (kW)		Nominal 18,000 (5.3)	24,000 (7.0)	30,000 (8.8)	36,000 (10.5)	42,000 (12.3)	48,000 (14.0)	60,000 (17.6)
Heating Capacity Btuh (kW)		Nominal 17,200 (5.0)	22,200 (6.5)	28,600 (8.4)	33,500 (9.8)	40,000 (11.7)	46,000 (13.5)	55,000 (16.1)
AHRI Certified Efficiency - SEER (Btuh/W)		14.0						
Fan	Type	Centrifugal						
	Speed	3						
	Air Flow CFM (m <sup>3</sup> /h)	723 (1230)	938 (1594)	1204 (2050)	1376 (2340)	1562 (2655)	1695 (2881)	1695 (2881)
	Noise Level Hi/Lo dB(A)	40	42	48	51	54	55	55
	External Static Pressure	25	25	37	37	37	50	50
	Motor Input (W)	180	206	288	398	463	578	578
Throttle Type	TXV							
Coil Type:	Grooved Copper Tubes - Hydrophilic Aluminum Fins							
Electrical	Voltage	208/230V - 1Ph - 60Hz						
	Range	min 187 - max 253						
	FLA	0.82	0.94	1.31	1.81	2.10	2.63	2.63
Controls	Wired Controller (Std.) - 24V Thermostat (Opt.) - Remote Controller (Opt.)							
Dimensions inches (mm)	Body Height	45 3/4 (1162)	45 3/4 (1162)	45 3/4 (1162)	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)	19 2/3 (500)	22 (560)	22 (560)
	Depth	22 (560)	22 (560)	22 (560)	22 (560)	22 (560)	24 (623)	24 (623)
	Net Weight	123 (56)	130 (59)	132 (60)	134 (61)	137 (62)	176 (80)	176 (80)

### OUTDOOR UNIT

MODEL NO.	SCVC	418S	424S	430S	436S	442S	448S	460S
		2A-GHE053A	2A-GHE070A	2A-GHE090A	2A-GHE105A	2A-GHE125A	2A-GHE140A	2A-GHE160A
Cooling Capacity		Btuh (kW) 17,600 (5.2)	23,600 (6.9)	28,600 (8.4)	34,000 (10.0)	40,500 (11.9)	46,000 (13.5)	56,000 (16.4)
Compressor	Type	Rotary					Scroll	
	Rated Load Amps (RLA)	6.10	8.70	12.20	11.90	15.20	17.30	21.00
Outdoor Fan	No of Fans	1	1	1	1	1	1	1
	Motor Input (W)	145	178	178	207	207	510	510
	Air Flow CFM (m <sup>3</sup> /h)	1500 (2550)	1700 (2890)	1900 (3230)	2800 (4760)	4000 (6800)	4000 (6800)	4000 (6800)
	Noise Level (dbA)	57	60	60	60	60	63	63
Coil Type:	Grooved Copper Tubes / Gold Fin Condenser							
Electrical	Voltage	208/230V - 1Ph - 60Hz						
	Range (min-max)	min 187 - max 253						
	Cooling Pwr. Input Nom. (W)	1390	1950	2290	2700	3429	3962	4722
	Min. Circuit Amps (MCA)	8.4	11.8	14.1	16.7	21.1	24.3	28.9
	Max Fuse Amps (MOCP)	10.0	20.0	20.0	25.0	35.0	40.0	45.0
Refrigerant Charge R410a (oz./kgs.)	70.6 / 2.0	93.5 / 2.6	95.2 / 2.7	123.5 / 3.5	126.9 / 3.6	148.2 / 4.2	178.1 / 5.1	
Refrigerant Connections inches (mm)	Type	Sweat						
	Liquid	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Max Pipe	Suction	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	7/8 (22.2)	7/8 (22.2)
	Height	26 (8.0)	26 (8.0)	26 (8.0)	26 (8.0)	33 (10.1)	33 (10.1)	33 (10.1)
Distance Ft.(m)	Length	50 (15.2)	50 (15.2)	50 (15.2)	50 (15.2)	66 (20.1)	66 (20.1)	66 (20.1)
	Height	25 (633)	25 (633)	25 (633)	25 (633)	32 7/8 (835)	32 7/8 (835)	32 7/8 (835)
Dimensions inches (mm)	Width	21 4/5 (554)	21 4/5 (554)	21 4/5 (554)	29 1/7 (740)	29 1/7 (740)	29 1/7 (740)	29 1/7 (740)
	Depth	21 4/5 (554)	21 4/5 (554)	21 4/5 (554)	29 1/7 (740)	29 1/7 (740)	29 1/7 (740)	29 1/7 (740)
	Net Weight	101 (46)	115 (52)	128 (53.7)	157 (71)	183 (83)	185 (84)	207 (94)

