

OMEGA TECHNOLOGY

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

SEMP

SEMP SERIES

Medium ESP Ducted Fan Coil

Fixed Speed Air Conditioners 50 Hz

Cooling Nominal: 18,000 - 60,000 BTU/h (5.3 -16.0 kW)

Heating Nominal: 18,000 - 60,500 BTU/h (5.3 -17.7 kW)

Product Features

- ✓ Fixed Speed Heating and Cooling System
- ✓ Ideal for Small Commercial & industrial Applications
- ✓ Auto Restart.
- ✓ Heat Pump.
- ✓ Low Voltage Start Up.
- ✓ Factory Tested.
- ✓ Discharge Heat Temperature Protection

Outdoor Unit Features

- ✓ Multiple Protection
- ✓ AC Fan Motor
- ✓ High-Efficiency Outdoor Fan
- ✓ Motor Overload Protection
- ✓ High/Low Pressure Protection
- ✓ Leakage Refrigerant Protection
- ✓ Optimized Air-Outlet Grill
- ✓ Anit Rust Metal Design
- ✓ Self Diagnostics

Indoor Unit Features

- ✓ Flexible Installation
- ✓ Sleek and Space Saving
- ✓ Multi-Position Air Intake
- ✓ Turbo Cooling Function with Multi-Speed Fan Control.
- ✓ Built in Drain Pump (Optional).
- ✓ Easy Maintenance and Cleanable Cartridge Filters.
- ✓ Dual-direction Drainage Pipe Design
- ✓ Auto-Restart
- ✓ Quiet Operation
- ✓ AC Fan Motor
- ✓ Standard Wired Controller
- ✓ Optional Wireless Controller



OMEGA



ISO 14001 ISO 9001

OTEC
AIR CONDITIONING

A Product of
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Environmental
Technologies LLC.



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SCHC018~036



SCHC048~060



Wired Controller



Wireless Controller

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. Flare 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 OMGM-1117.

INDOOR UNIT

MODEL NO.	SEMP	018H3A -LCI053	024H3A -LCI070	036H3A -LCI105	048H3A -LCI140	060H3A -LCI160
Nominal Cooling Capacity	Btu/h (kW)	18,000 (5.3)	24,000 (7.0)	36,000 (10.5)	48,000 (14.0)	60,000 (16.0)
Cooling - EER (W/W)		2.95	3.41	2.73	3.07	2.83
Nominal Heating Capacity	Btu/h (kW)	18,000 (5.3)	24,000 (7.0)	40,000 (11.7)	50,000 (14.6)	60,500 (17.7)
Heating - COP (W/W)		3.90	3.78	3.29	3.30	3.66
Refrigerant Control		Electronic Expansion Valve @ Outdoor Unit				
Fan	Type	Centrifugal				
	Speed	4				
	Air Flow CFM (m3/hr) - Hi	690 (1170)	825 (1400)	1060 (1800)	1235 (2100)	1295 (2200)
	Noise Level (dBa) - Hi/Lo	43/32	46/41	46/42	47/42	47/43
	Motor Inut (Watts)	98	190	268	326	326
	FLA	0.45	0.88	1.25	1.49	1.49
Coil Type:		Grooved Copper Tube - Hydrophilic Blue Fin				
Air Filter:		Cleanable Cartridge Type				
Electrical	Voltage-Phase-Frequency	220~240V / 1PH / 50Hz				
	Range (min-max)	198 min ~ 264 max				
	Cooling Rated Amps	8.0	8.7	17.0	9.3	12.0
	Heating Rated Amps	6.9	8.0	16.5	9.5	12.4
Controls		Wired (Std.) & Wireless (Opt.)				
Refrigerant Connections inches (mm)	Liquid	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Suction	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)	3/4 (19.05)	3/4 (19.05)
Drain Connection inches (mm)		1 (25)				
Body Dimensions inches (mm)	Height	8 1/4 (210)	10 5/8 (270)	10 5/8 (270)	11 7/8 (300)	11 7/8 (300)
	Width	36 1/4 (920)	36 1/4 (920)	45 (1140)	47 1/4 (1200)	47 1/4 (1200)
	Depth	23 7/8 (605)	23 7/8 (605)	29 3/8 (745)	32 7/8 (835)	32 7/8 (835)
Net Weight Lbs (kgs)		48.4 (22)	61.6 (28)	77 (35)	94.6 (43)	94.6 (43)

OUTDOOR UNIT

MODEL NO.	SCHC	018H3A -LHI053	024H3A -LHI070	036H3A -LHI105	048H7A -LHI140	060H7A -LHI160
Compressor	Type	Rotary				
	Comp. Rated Load Amps (RLA)	5.7	8.7	16.6	6.8	9.5
	Locked Motor Amps (LRA)	36	48	80	62	65
Outdoor Fan	No of Fans	1		2		
	Motor Input (W)	96	136	160	158 x 2	158 x 2
	Air Flow CFM (m3/h)	1415 (2400)	2355 (4000)	2885 (4900)	3705 (6300)	3705 (6300)
	Noise Level (dBa)	56	54	58	60	60
Coil Type:		Grooved Copper Tube - Hydrophilic Blue Fin				
Electrical	Voltage-Phase-Frequency	220~240V / 1PH / 50Hz			380~415V / 3PH / 50Hz	
	Range (min-max)	198 min ~ 264 max			342 min ~ 457 max	
	Comp. Power Input (W)	1227	1855	3470	3370	5630
	Minimum Circuit Amps (MCA)	8.0	10.0	13.9	10.6	14.1
	Maximum Fuse Amps (MOCP)	15	25	40	20	25
Refrigerant Charge R410a (oz./kgs.)		37.04 / 1.05	67.02 / 1.9	67.02 / 1.9	102.1 / 2.9	105.6 / 3.0
Refrigerant Connections inches (mm)	Type	Flare				
	Liquid	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Max Pipe Distance Ft.(m)	Suction	1/2 (12.7)	5/8 (15.88)	5/8 (15.88)	3/4 (19.05)	3/4 (19.05)
	Height	49.2 (15)	49.2 (15)	65.6 (20)	100 (30)	100 (30)
Unit Dimensions inches (mm)	Length	82.0 (25)	98.4 (30)	98.4 (30)	165 (50)	165 (50)
	Height	21 5/8 (550)	27 1/2 (700)	31 3/4 (805)	49 1/4 (1250)	49 1/4 (1250)
	Width	30 (760)	33 1/4 (845)	35 7/8 (910)	37 (940)	37 (940)
Net Weight Lbs (kgs)	Depth	9 7/8 (250)	13 (330)	14 1/8 (360)	13 3/8 (340)	13 3/8 (340)
		74.8 (34)	103.4 (47)	129.8 (59)	178.2 (81)	200.2 (91)



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Notes:
Design, specification and performance data is subject to change without notice.
Certifications and emblems shown are applicable to selected models only. Please contact Omega for details.

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