

OMEGA INVERTER TECHNOLOGY

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

TEFC SERIES Floor Ceiling Air Conditioners 3D Inverter Heat Pump

Cooling Nominal: 18,000-60,000 Btuh (5.3-17.5 kW)
Heating Nominal: 19,000-60,000 Btuh (5.6-17.5 kW)



Product Features

- ✓ Up to 19 SEER in Cooling Mode.
- ✓ Ideal for Small Commercial & Industrial Applications
- ✓ Auto Restart.
- ✓ Energy Saving Motion Sensor.
- ✓ Low Voltage Start Up.
- ✓ Automatic Defrosting.
- ✓ Factory Tested.
- ✓ Low Temperature Cooling Down to -15° C & High Temperature Cooling Up to 48° C Ambient.
- ✓ R410A Refrigerant.

Outdoor Unit Features

- ✓ DC Inverter Rotary Compressor.
- ✓ DC Outdoor Fan Motor.
- ✓ Electronic Expansion Valve.
- ✓ Super Quiet Operation.
- ✓ High Efficiency Coils with Hydrophilic Fins.
- ✓ Corrosion Resisting Cabinet with Protective Coating.
- ✓ High & Low Pressure Protection.
- ✓ Discharge Temperature Protection.
- ✓ Phase Loss & Overcurrent Protection.
- ✓ PFC & IPM Module Protection.
- ✓ Self-Diagnostics.

Indoor Unit Features

- ✓ Wireless LCD Remote Control (Standard).
- ✓ Double wired Remote Control Function (Optional)
- ✓ Auto Setting for Cooling, Heating, Dehumidifying, Fan.
- ✓ Centrifugal Multi Blowers.
- ✓ Automatic up & Down and Left & Right Swing.
- ✓ Sleep Mode.
- ✓ Turbo Cooling Function with Multi-Speed DC Fan Control.
- ✓ Easy Maintenance and Cleanable Cartridge Filters.
- ✓ Easy Connect Flare Connections.
- ✓ Indicating Light Display.
- ✓ Low Temperature Dry Function.
- ✓ Central Control & Long Distance Monitoring Option.
- ✓ Anti-Freezing & Anti-High Temperature Protection.
- ✓ Sensor Malfunction Alarm.
- ✓ Communication Malfunction Alarm.

OMEGA



OTEC
AIR CONDITIONING

A Product of
OMEGA
Environmental
Technologies LLC.

ISO 14001 ISO 9001

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INDOOR UNIT

MODEL NO.	TEFC	018P 0A-RWI053	024P 0A-RWI070	036P 0A-RWJ105	048P 0A-RWI140	060P 0A-RWG175	
Cooling Capacity Btuh (kw)	Nominal	18,000 (5.3)	24,000 (7.0)	36,000 (10.5)	48,000 (14.0)	60,000 (17.5)	
	Minimum	5,459 (1.60)	8,188 (2.4)	10,920 (3.20)	20,472 (6.0)	21,666 (6.35)	
	Maximum	19,789 (5.80)	27,978 (2.4)	39,250 (11.5)	50,498 (14.8)	56,298 (16.5)	
Heating Capacity Btuh (kw)	Nominal	19,000 (5.60)	26,000 (7.6)	40,000 (11.7)	52,000 (15.2)	60,000 (17.6)	
	Minimum	4,776 (1.40)	8,188 (2.40)	9,890 (2.9)	17,742 (5.2)	19,782 (5.8)	
	Maximum	22,178 (6.50)	32,414 (9.50)	48,490 (14.5)	61,416 (18.0)	68,478 (20.0)	
Efficiency	SEER	Btuh/w (w/w)	18 (5.3)	18 (5.3)	19 (5.6)	18 (5.3)	18 (5.3)
Refrigerant Control		Electronic Expansion Valve @ Outdoor Unit					
Fan	Type	Centrifugal Fan					
	Speed	3	3	3	3	3	
	Air Flow CFM (m³/hr) - Hi	588 (1000)	706 (1200)	1118 (1900)	1354 (2300)	1471 (2500)	
	Noise Level (dba) Hi/Lo	42 / 32	48 / 40	53 / 46	55 / 46	56 / 46	
	Motor (Watts)	40	65	140	190	200	
Coil Type:		Grooved Copper Tubes - Aluminum Hydrophilic Fin					
Air Filter		Cleanable Cartridge Type					
Electrical	Voltage-Phase-Frequency	220/240-1-N/A(3D)					
	Range	min 198 - max 264					
	FLA	0.18	0.29	0.64	0.86	0.90	
Controls		LCD Wireless Remote Control					
Refrigerant Connections inches (mm)		See Outdoor Unit Data					
Drain Connections inches (mm)		3/4 (20)					
Dimensions inches (mm)	Height	8 7/8 (225)	8 7/8 (225)	9 5/8 (245)	9 5/8 (245)	9 5/8 (245)	
	Width	48 (1220)	48 (1220)	55 7/8 (1420)	66 7/8 (1700)	66 7/8 (1700)	
	Depth	27 1/2 (700)	27 1/2 (700)	27 1/2 (700)	27 1/2 (700)	27 1/2 (700)	
Net Weight Lbs (kgs)		85.8 (39)	88.0 (40)	105.6 (48)	129.8 (59)	129.8 (59)	

OUTDOOR UNIT

MODEL NO.	TCHE	018P 0A-RLI053	024P 0A-RLI070	036P 0A-RLJ105	048P 0A-RLI140	060P 0A-RLG175
Compressor Type		DC Inverter Rotary				
Outdoor Fan	No of Fans	1	1	1	2	2
	Noise Level (dba)	56	57	63	59	63
Coil Type:		Grooved Copper Tubes - Aluminum Blue Slit Fin				
Electrical	Voltage-Phase-Frequency	220/240-1-N/A(3D)				
	Range (min-max)	198 - 264				
	Running Amps (RLA)	7.2	11.5	19.0	21.0	21.0
	Cooling Pwr. Input Nom. (W)	1440	2550	4150	4580	4580
	Min. Circuit Amps (MCA)	9.4	15.0	24.8	27.6	27.6
Refrigerant R410 (oz./kgs.)		45 / 1.4	70 / 2.2	124 / 3.5	141 / 4.0	194 / 5.5
Refrigerant Connections inches (mm)	Type	Flare				
	Liquid	1/4 (7)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)
MAX Pipe Distance Ft.(m)	Suction	1/2 (12)	5/8 (16)	5/8 (16)	5/8 (16)	3/4 (19)
	Height	49 (15)	49 (15)	49 (15)	98 (30)	98 (30)
Dimensions inches (mm)	Length	66 (20)	98 (30)	98 (30)	164 (50)	164 (50)
	Height	27 5/8 (700)	31 1/8 (790)	43 3/8 (1100)	53 1/8 (1349)	53 3/4 (1365)
	Width	37 1/2 (955)	38 5/8 (980)	43 3/8 (1107)	37 3/4 (958)	42 3/4 (1085)
Net Weight		103.4 (47)	147.4 (67)	202.4 (92)	232 (105)	265 (121)

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3D Inverter Heat Pump

Cooling Nominal: 18,000-60,000 Btuh (5.3-17.5 kW)
Heating Nominal: 19,000-60,000 Btuh (5.6-17.5 kW)



18,000 btuh



24,000 btuh



36,000 btuh



48,000 - 60,000 btuh



Standard Wireless Controller



Optional 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 16ft (5m) of tubing.
- Refrigerant metering device is installed at the outdoor unit as standard.
- Flare 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 OGMN-1214.

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