

OMEGA INVERTER TECHNOLOGY

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



TECM



TECS

TE(CM,CS,CL) SERIES Cassette 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)



TECL

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.

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 (Optional).
- ✓ Auto Setting for Cooling, Heating, Dehumidifying, Fan.
- ✓ 4 Direction Airflow.
- ✓ Low Noise Design.
- ✓ Sleep Mode.
- ✓ Automatic up & Down Swing.
- ✓ Turbo Cooling Function with Multi-Speed DC Fan Control.
- ✓ Built in Drain Pump.
- ✓ 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.



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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.	TEC	M018P 0A-RW1063	S024P 0A-RW1070	S036P 0A-RW1105	L048P 0A-RW1140	L060P 0A-RW1175		
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)	29,002 (8.50)	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)		17 (5.0)	18 (5.3)	19 (5.6)	18 (5.3)	17 (5.0)
Refrigerant Control		Electronic Expansion Valve @ Outdoor Unit						
Fan	Type	Coaxial Turbo Fan						
	Speed	3	3	3	3	3		
	Air Flow CFM (m³/hr) - Hi	447 (760)	765 (1300)	1095 (1860)	1354 (2300)	1412 (2400)		
	Noise Level (dbA) Hi/Lo	46 / 37	46 / 38	49 / 43	52 / 41	53 / 41		
	Motor (Watts)	40	65	110	150	150		
Coil Type:		Grooved Copper Tubes - Aluminum Blue Slit 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	0.5	0.68	0.68		
Controls		LCD Wireless Remote Control						
Refrigerant Connections inches (mm)		See Outdoor Unit Data						
Drain Connections inches (mm)		1 (25)						
Body Dimensions inches (mm)	Height	9 3/4 (240)	9 3/4 (240)	12 5/8 (320)	11 3/8 (290)	11 3/8 (290)		
	Width	23 3/8 (596)	33 1/8 (840)	33 1/8 (840)	35 7/8 (910)	35 7/8 (910)		
	Depth	23 3/8 (596)	33 1/8 (840)	33 1/8 (840)	35 7/8 (910)	35 7/8 (910)		
Body Net Weight Lbs (kgs)		44 (20)	57.2 (26)	68.2 (31)	94.6 (43)	94.6 (43)		
Panel Dimensions inches (mm)	Height	2 (50)	2 3/8 (60)	2 3/8 (60)	2 1/2 (65)	2 1/2 (65)		
	Width	26 3/8 (670)	37 3/8 (950)	37 3/8 (950)	41 (1040)	41 (1040)		
	Depth	26 3/8 (670)	37 3/8 (950)	37 3/8 (950)	41 (1040)	41 (1040)		
Panel Net Weight Lbs (kgs)		7.7 (3.5)	15.4 (7)	15.4 (7)	17.6 (8)	17.6 (8)		

OUTDOOR UNIT						
MODEL NO.	TCHE	018P 0A-RL1063	024P 0A-RL1070	036P 0A-RL1105	048P 0A-RL1140	060P 0A-RL1175
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
Max Fuse Amps (MOCP)		15	25	40	45	45
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 Lbs (kgs)	Depth	15 3/8 (396)	16 3/4 (427)	17 3/8 (440)	16 1/4 (412)	16 3/4 (427)
	Lbs (kgs)	103.4 (47)	147.4 (67)	202.4 (92)	232 (105)	265 (121)

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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 OGMNM-1214.

OMEGA
ENVIRONMENTAL
TECHNOLOGIES LLC.
17702 Mitchell North, #101
Irvine, CA 92614, USA
Tel: 714 795 2830
Fax: 714 966 1649
info@omegainverter.com
www.omegainverter.com



OTEC
AIR CONDITIONING
Showroom & Technology Center
11380 Interchange Circle North
Miramar, FL 33025 . USA
Tel: 305 731 2140, 888 840 7550
Fax: 954 212 8280
info@otecus.com
www.otecus.com

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