



# OMEGA INVERTER TECHNOLOGY

INVERTER  
TECHNOLOGY  
EXPERT

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



TECM

## TECM(CR) SERIES Round-Flow Cassette

R32 Inverter Heat Pump 50-60Hz

Cooling Nominal: 12,000~60,000 BTU/h (3.6~16.0 kW)

Heating Nominal: 13,650~62,000 BTU/h (4.0~18.2 kW)



TECR

### Product Features

- ✓ WIFI Built-in
- ✓ Up to 21 SEER in Cooling Mode.
- ✓ Piping Distance up to 200 ft.
- ✓ Ideal for Small Commercial & industrial Applications
- ✓ Auto Restart.
- ✓ Heat Pump.
- ✓ Low-Voltage Start Up.
- ✓ Factory Tested.
- ✓ Low Temperature Cooling Down to -5° C & High Temperature Cooling up to 50° C ambient.

### Outdoor Unit Features

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

### Indoor Unit Features

- ✓ WIFI Built-in
- ✓ Wireless Remote Control (Standard).
- ✓ Wired-Remote Control (Optional).
- ✓ 360-Degree Airflow.
- ✓ Low Noise Operation
- ✓ Built-in Drain Pump (Opt.)
- ✓ Auto Setting for Cooling, Heating, Dehumidifying, Fan.
- ✓ Sleep Mode.
- ✓ Turbo Cooling Function with Multi-Speed Fan Control.
- ✓ LED Digital Display
- ✓ Easy Maintenance
- ✓ Easy-Connect Flare Connections.
- ✓ Reserved Fresh Air Intercase
- ✓ Anti-Freezing & Anti-High Temperature Protection.
- ✓ Sensor Malfunction Alarm.
- ✓ Communication Malfunction Alarm.
- ✓ Programmable 24 hours On/Off Timer.
- ✓ Under/Over Voltage protection.



A Product of  
**OMEGA**  
Environmental  
Technologies LLC.

ISO 14001 ISO 9001





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## INDOOR UNITS - R32 FULL DC INVERTER HEAT PUMP

MODEL NO.	TECM(CR)	TECM112 JOT-LWL036	TECR118 JOT-LWL053	TECR124 JOT-LWL070	TECR136 JOT-LWL105	TECR148 JOT-LWL140	TECR160 JOT-LWL160
Cooling Capacity BTU/h (kW)	Nominal	12,500 (3.6)	18,000 (5.3)	24,000 (7.0)	36,000 (10.5)	48,000 (14.0)	60,000 (16.0)
	Minimum	2,950 (0.6)	2,115 (0.62)	7,500 (2.2)	10,500 (3.1)	12,000 (3.5)	14,000 (4.1)
	Maximum	16,400 (4.8)	19,050 (5.6)	25,500 (7.5)	42,000 (12.3)	54,000 (15.8)	59,000 (17.3)
SEER		21	21	21	21	21	21
Heating Capacity BTU/h (kW)	Nominal	13,500 (4.0)	19,800 (5.8)	26,900 (7.9)	40,000 (11.7)	55,000 (16.1)	58,000 (17.0)
	Minimum	2,390 (0.7)	2,600 (0.8)	7,900 (2.2)	11,200 (3.3)	14,000 (4.1)	15,000 (4.4)
	Maximum	18,400 (5.4)	20,820 (6.1)	28,500 (8.5)	46,000 (13.5)	59,000 (17.3)	70,000 (20.5)
SCOP (Btu/W)		13.7	13.7	13.7	14.0	13.7	13.7
Energy Class		A++					
Electrical	Voltage-Phase-Frequency	220-240V / 1Ph / 50-60Hz					
	Air Flow CFM (m³/hr)	430 (730)	720 (1220)	885 (1500)	1120 (1900)	1180 (2000)	1250 (2100)
	Noise Level - Hi/Lo (dBa)	57/48	55/44	59/47	63/53	63/54	63/54
	Full Load Amps (FLA)	0.5	0.5	0.8	0.6	1.0	1.2
Controls		Remote Controller (Std.) - Wired Controller (Opt.)					
Refrig. Conn. In. (mm) - Flare		See Outdoor Unit Data					
Drain Conn. In. (mm) NPT		1 (25)					
Body Dimensions inches (mm)	Height	22 7/8 (580)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)
	Width	22 7/8 (580)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)
	Depth	10 (255)	9 5/8 (245)	9 5/8 (245)	11 3/8 (290)	11 3/8 (290)	11 3/8 (290)
Net Weight Lbs (kgs)		41.9 (19)	50.7 (23)	52.9 (24)	57.3 (26)	61.7 (28)	61.7 (28)
Panel Dimensions inches (mm)	Height	1 1/8 (30)	1 3/4 (45)	1 3/4 (45)	1 3/4 (45)	37 1/2 (950)	37 1/2 (950)
	Width	25 1/2 (650)	37 1/2 (950)	37 1/2 (950)	37 1/2 (950)	37 1/2 (950)	37 1/2 (950)
	Depth	25 1/2 (650)	37 1/2 (950)	37 1/2 (950)	37 1/2 (950)	1 3/4 (45)	1 3/4 (45)
Net Weight Lbs (kgs)		2.5	13.2 (6)	13.2 (6)	13.2 (6)	13.2 (6)	13.2 (6)

## TECM(CR) SERIES

Round-Flow Cassette

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Heating Nominal: 13,650~62,000 BTU/h (4.0~18.2 kW)



12k~18k Btu/h



24k ~ 36k Btu/h



48k ~ 60k Btu/h

## OUTDOOR UNIT - R32 FULL DC INVERTER HEAT PUMP

MODEL NO.	TCHB	TCHB112 JOT-LSL036	TCHB118 JOT-LSL053	TCHB124 JOT-LSL070	TCHB136 JOT-LTL105	TCHB148 JOT-LTL140	TCHB160 JTT-LTL160
Compressor Type		Full DC Inverter Rotary					
Energy Class		A++					
Outdoor Fan	No. of Fans	1	1	1	1	1	1
	Noise Level - Hi (dBa)	61	62	64	67	72	73
Coil Type:		Grooved Copper Tubes / Gold Fin					
Electrical	Voltage-Phase-Frequency	220-240V / 1Ph / 50-60Hz					380-418V / 3Ph / 50-60Hz
	Range (min-max)	min: 176 ~ max: 265					min: 304 ~ max: 458
	Comp. Pwr. Input Nom. (W)	1600	1625	1390	3180	4700	5900
	Min. Circuit Amps (MCA)	13.0	13.5	15.0	20.5	21.5	14.0
	Max Fuse Amps (MOCP)	20	20	25	35	35	15
Refrigerant Charge R32 (oz. / kg.)		33.51 / 0.95	33.51 / 0.95	47.62 / 1.35	74.08 / 2.10	74.08 / 2.10	91.71 (2.60)
Refrigerant	Type	Flare					
Connections inches (mm)	Liquid	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Suction	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	5/8 (15.8)	5/8 (15.8)	5/8 (15.8)
Max Pipe Distance Ft.(m)	Height	47.5 (15)			80 (25)	95 (30)	
	Length	95 (30)			160 (50)	196 (60)	
Dimensions inches (mm)	Height	28 7/8 (605)	28 7/8 (605)	27 5/8 (700)	31 5/8 (804)	33 7/8 (858)	33 7/8 (858)
	Width	30 3/4 (780)	30 3/4 (780)	33 3/8 (845)	35 7/8 (910)	39 3/4 (1010)	39 3/4 (1010)
	Depth	12 1/8 (307)	12 1/8 (307)	13 1/2 (342)	14 7/8 (378)	14 1/4 (436)	14 1/4 (436)
Net Weight	Lbs (kgs)	66.1 (30)	66.1 (30)	88.2 (40)	121.3 (55)	163.1 (74)	180.8 (82)

### 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 OMGNM-0221



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ISO 14001 ISO 9001

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