



OMEGA INVERTER TECHNOLOGY

INVERTER
TECHNOLOGY
EXPERT

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



TCHB SERIES Full DC Inverter Heat Pump Inverter Air Conditioners 50-60Hz

Cooling Nominal: 12,000~60,000 BTU/h (3.5~17.0 kW)

Heating Nominal: 13,500~62,000 BTU/h (4.0~18.2 kW)



TCHB012-036



TCHB048-060



Roundflow Cassette
TECM(CR)012-060



Ducted Fan Coil
TELP (MP)012-060



Floor Ceiling
TEFC012-060



Product Features

- ✓ WIFI Built-in
- ✓ R32 Refrigerant Technology.
- ✓ High Efficiency DC Motor.
- ✓ High Efficiency Compressor
- ✓ Self-Diagnosis.
- ✓ Quiet Design.
- ✓ Multiple Safety Protection Measures.
- ✓ Under & Over Voltage Protection.
- ✓ Multiple Certifications.

Outdoor Unit Features

- ✓ Gold Fins
- ✓ 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.



A Product of
OMEGA
Environmental
Technologies LLC.

ISO 14001 ISO 9001

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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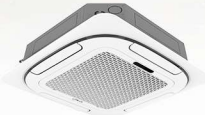
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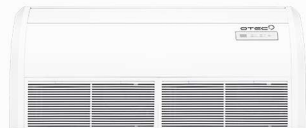
Applicable Indoor Units



Roundflow Cassette
TECM(CR)012-060



Ducted Fan Coil
TELP (MP) 012-060



Floor Ceiling
TEFC012-060

Outdoor Units



TCHB012-036



TCHB048-060

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.
2. Ratings are based on indoor and outdoor connected by 16ft (5m) of tubing.
3. Refrigerant metering device is installed at the outdoor unit as standard.
4. Flare fittings are provided for connecting indoor and outdoor units.
5. Insulation of both liquid and suction line is required.
6. Outdoor units are shipped with full operating charge.
7. For details of model number nomenclature, please refer to publication

OUTDOOR UNIT - R32 FULL DC INVERTER HEAT PUMP

MODEL NO.	TCHB	TCHB112 J0T-LSL036	TCHB118 J0T-LSL053	TCHB124 J0T-LSL070	TCHB136 J0T-LTL105	TCHB148 J0T-LTL140	TCHB160 J0T-LTL160
Cooling Capacity	Nominal	12,500 (3.7)	18,000 (5.3)	24,000 (7.1)	36,000 (10.5)	48,000 (14.1)	60,000 (17.6)
	Minimum	2,115 (0.6)	2,115 (0.6)	7,500 (2.2)	10,500 (3.1)	12,000 (3.5)	14,000 (4.1)
	Maximum	16,380 (4.8)	19,050 (5.6)	25,500 (7.5)	42,000 (12.3)	54,000 (15.8)	62,000 (18.2)
SEER		21	21	21	21	21	19
		18000 (5.3)	19,800 (5.8)	26,900 (7.9)	40,000 (11.7)	55,000 (16.1)	62,000 (18.2)
Heating Capacity	Nominal	18,000 (5.3)	19,800 (5.8)	26,900 (7.9)	40,000 (11.7)	55,000 (16.1)	62,000 (18.2)
	Minimum	2,600 (0.8)	2,600 (0.8)	7,900 (2.3)	11,200 (3.3)	14,000 (4.1)	15,000 (4.4)
	Maximum	18,750 (5.5)	20,820 (6.1)	28,500 (8.4)	46,000 (13.5)	59,000 (17.3)	68,000 (20.0)
SCOP (Btu/W)		11.6	13.7	13.7	14.0	13.7	13.7
		Full DC Inverter Rotary					
Compressor Type		Full DC Inverter Rotary					
Outdoor Fan	No. of Fans	1	1	1	1	1	1
	Noise Level - Hi (dba)	62	62	64	67	72	73
Coil Type:		Grooved Copper Tubes / Gold Fin					
	Voltage-Phase-Frequency	220-240V / 1Ph / 50-60Hz				380-418V / 3Ph / 50-60Hz	
Electrical	Range (min-max)	304 - 458					
	Comp. Pwr. Input Nom. (W)	1360	1660	2285	3210	3600	5410
	Min. Circuit Amps (MCA)	13	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	109.35 / 3.10	116.40 / 3.30
Refrigerant Connections	Type	Flare					
	inches (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Max Pipe Distance	Height	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	5/8 (15.8)	5/8 (15.8)	3/4 (19.1)
	Length	47.5 (15)	95 (30)	160 (50)	210 (65)	210 (65)	210 (65)
Dimensions inches (mm)	Height	25 (643)	25 (643)	29 1/2 (747)	33 3/4 (855)	42 1/2 (1080)	42 1/2 (1080)
	Width	35 1/8 (890)	35 1/8 (890)	37 7/8 (960)	40 1/4 (1022)	57 3/4 (1465)	57 3/4 (1465)
	Depth	15 1/4 (385)	15 1/4 (385)	17 (430)	18 7/8 (480)	36 7/8 (935)	36 7/8 (935)
Net Weight	Lbs (kgs)	72.6 (33)	72.6 (33)	96.8 (44)	132 (60)	253 (115)	255 (116)

INDOOR UNITS - R32 FULL DC INVERTER HEAT PUMP

MODEL NO.	TECM(CR)	TECM112 J0T-LWL036	TECR118 J0T-LWL053	TECR124 J0T-LWL070	TECR136 J0T-LWL105	TECR148 J0T-LWL140	TECR160 J0T-LWL160
Electrical	Voltage-Phase-Frequency	220-240V / 1Ph / 50-60Hz					
	Range (min-max)	176 - 265					
Indoor Fan	Air Flow CFM (m³/hr)	441 (750)	718 (1220)	883 (1500)	1118 (1900)	1206 (2050)	1236 (2100)
	Noise Level - Hi/Lo (dba)	56/52	55/44	54/44	53/47	64/53	64/57
	Full Load Amps (FLA)	0.5	0.5	0.8	0.6	1.2	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	Height	10 (255)	9 5/8 (245)	9 5/8 (245)	11 3/8 (290)	11 3/8 (290)	11 3/8 (290)
	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)
Dimensions inches (mm)	Depth	22 7/8 (580)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)	33 1/8 (840)
	Net Weight Lbs (kgs)	41.89 (19)	50.71 (23)	52.91 (24)	57.32 (26)	59.52 (27)	63.8 (29)
Panel	Height	1 1/18 (30)	1 3/4 (45)	1 3/4 (45)	1 3/4 (45)	1 3/4 (45)	1 3/4 (45)
	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)
Dimensions inches (mm)	Depth	25 1/2 (650)	37 1/2 (950)	37 1/2 (950)	37 1/2 (950)	37 1/2 (950)	37 1/2 (950)
	Net Weight Lbs (kgs)	2.5	13.2 (6)	13.2 (6)	13.2 (6)	13.2 (6)	13.2 (6)

MODEL NO.	TELP(MP)	TELP112 J0T-LCL036	TELP118 J0T-LCL053	TELP124 J0T-LCL070	TEMP136 J0T-LCL105	TEMP148 J0T-LCL140	TEMP160 J0T-LCL160
Electrical	Voltage-Phase-Frequency	220-240V / 1Ph / 50-60Hz					
	Range (min-max)	176 - 265					
Indoor Fan	Air Flow CFM (m³/hr)	530 (900)	530 (900)	912 (1550)	1180 (2000)	1295 (2200)	1353 (2300)
	Noise Level - Hi/Lo (dba)	53/45	53/45	58/46	62/54	64/48	65/49
	Full Load Amps (FLA)	0.6	0.6	1.3	1.1	1.7	1.9
Controls		Remote Controller (Opt.) - Wired Controller (Std.)					
Refrig. Conn. In. (mm) - Flare		See Outdoor Unit Data					
Drain Conn. In. (mm) NPT		1 (25)					
Body	Height	8 1/4 (210)	8 1/4 (210)	10 1/2 (270)	10 1/2 (270)	11 7/8 (300)	11 7/8 (300)
	Width	36 1/4 (920)	36 1/4 (920)	36 1/4 (920)	45 (1140)	47 1/4 (1200)	47 1/4 (1200)
Dimensions inches (mm)	Depth	22 1/2 (570)	22 1/2 (570)	22 1/2 (570)	28 (710)	31 1/2 (800)	31 1/2 (800)
	Net Weight Lbs (kgs)	53 (24)	53 (24)	57.26 (26)	79.37 (36)	97 (44)	97 (44)

MODEL NO.	TEFC	TEFC112 J0T-LWL036	TEFC118 J0T-LWL053	TEFC124 J0T-LWL070	TEFC136 J0T-LWL105	TEFC148 J0T-LWL140	TEFC160 J0T-LWL160
Electrical	Voltage-Phase-Frequency	220-240V / 1Ph / 50-60Hz					
	Range (min-max)	176 - 265					
Indoor Fan	Air Flow CFM (m³/hr)	618 (1050)	618 (1050)	794 (1350)	1177 (2000)	1353 (2300)	1412 (2400)
	Noise Level - Hi/Lo (dba)	59/45	59/45	64/50	65/52	65/54	65/49
	Full Load Amps (FLA)	0.6	0.6	0.85	0.8	1.4	1.5
Controls		Remote Controller (Std.) - Wired Controller (Opt.)					
Refrig. Conn. In. (mm) - Flare		See Outdoor Unit Data					
Drain Conn. In. (mm) NPT		1 (25)					
Body	Height	26 1/2 (675)	26 1/2 (675)	26 1/2 (675)	26 1/2 (675)	26 1/2 (675)	26 1/2 (675)
	Width	41 1/2 (1055)	41 1/2 (1055)	41 1/2 (1055)	50 1/4 (1275)	64 3/8 (1635)	64 3/8 (1635)
Dimensions inches (mm)	Depth	9 1/4 (235)	9 1/4 (235)	9 1/4 (235)	9 1/4 (235)	9 1/4 (235)	9 1/4 (235)
	Net Weight Lbs (kgs)	52.8 (24)	52.8 (24)	26 (57.2)	66 (30)	82.5 (37.5)	82.5 (37.5)



OMEGA ENVIRONMENTAL TECHNOLOGIES LLC.

17702 Mitchell North, #101
Irvine, CA 92614, USA
Tel: 714 7952830
Fax: 714 966 1649
info@omegainverter.com
www.omegainverter.com



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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