

TCL AC

ADVANTAGE SERIES



INVERTER HEAT PUMP SYSTEM



SMART CONTROL

24V Thermostat-Compatible to all 3rd Party 24v Thermostats.

RS485 Wired-Controller-
To activate smart functions such as dehumidification, energy saving, sleep mode, etc.



MULTI-PROTECTION

Pressure protection, temperature protection, and current protection to adapt to various extreme weather conditions.



R454B REFRIGERANT

Utilizing the advanced R454B eco-friendly refrigerant, it is safe, environmentally sustainable, free of pollutants, and highly energy efficient.



EASY INSTALLATION AND MAINTENANCE

Simplifies both the setup and maintenance of the system which saves time and reduces potential errors.



TCL

With a lineup of award-winning televisions, audio products, mobile devices, and appliances, TCL delivers meaningful experiences through thoughtful design and the latest technology, helping you enjoy more of the things you love.

MODEL NUMBER - IDU			H24AHH17XAE	H36AHH18XAE	H48AHH18XAE	H60AHH16XAE
MODEL NUMBER - ODU			H24TDH17XAC	H36TDH18XAC	H48TDH18XAC	H60TDH16XAC
SYSTEM TYPE			Heat Pump			
SYSTEM PERFORMANCE						
Cooling at 95°C (35°C)	Capacity (Min - Max)	BTU/h	24,000 (7,000 - 25,000)	34,000 (9,000 - 36,000)	47,000 (12,000 - 48,000)	53,000 (14,000 - 53,000)
	Rated Current	A	10	16	29	31
	SEER2 / EER2		18 / 10	19 / 10	18 / 9	17 / 7.5
Heating at 47°F (8.3°C)	Capacity (Min - Max)	BTU/h	24,000 (7,000 - 25,000)	36,000 (9,000 - 38,000)	47,000 (12,000 - 50,000)	54,000 (14,000 - 56,000)
	Rated Current	A	10	16	29	31
	HSPF2 / COP		9 / 3.2	9 / 3.2	8.5 / 3.2	8.5 / 3
Heating at 17°F (-8.3°C)	Rated Capacity	BTU/h	18,500	25,000	35,000	38,000
Heating at 5°F (-15°C)	Rated Capacity	BTU/h	18,000	26,000	33,000	35,000
	COP		1.75	1.9	1.9	1.9
ENERGY STAR® Cold Climate Certified			Yes	Yes	Yes	No
Ambient Temperature Range	Cooling	°F (°C)	5 - 125 (-15 - 52)	5 - 125 (-15 - 52)	5 - 125 (-15 - 52)	5 - 125 (-15 - 52)
	Heating	°F (°C)	-13 - 80 (-25 - 27)	-13 - 80 (-25 - 27)	-13 - 80 (-25 - 27)	-13 - 80 (-25 - 27)
OUTDOOR UNIT DATA						
Power Supply			208 -230V / 1Ph / 60Hz			
Min. / Max. Voltage			187 / 253			
Min. Circuit Ampacity - MCA		A	14	22	35	35
Max. Circuit Breaker (MOCP)		A	25	35	60	60
Recommended FUSE Size		A	25	35	60	60
Sound Pressure Level		dB(A)	67	68	69	69
Control Voltage		VAC	24	24	24	24
Compressor	Type		Variable Rotary	Variable Rotary	Variable Rotary	Variable Rotary
	Full Load Amps (FLA) _{ur}	A	10	15.8	26	26
	Rated Load Amps (RLA)	A	8.2	10	15.8	15.8
Condenser Coil	Throttle Type		EEV-1.8	EEV-2.5	EEV-3.2	EEV-3.2
	Tube Size(O.D.)		⅝7	⅝7	⅝7	⅝7
Fan Motor	Motor Type		DC	DC	DC	DC
	Horsepower (HP)		1/4	1/4	1/4	1/4
	Full Load Amps (FLA) _{ur}		1.1	1.1	1.1	1.1
External Dimensions (W ½ H ½ D)		in	29-1/8 ½ 24-15/16 ½ 29-1/8	29-1/8 ½ 24-15/16 ½ 29-1/8	29-1/8 ½ 33-3/16 ½ 29-1/8	29-1/8 ½ 33-3/16 ½ 29-1/8
		mm	740 ½ 633 ½ 740	740 ½ 633 ½ 740	740 ½ 843 ½ 740	740 ½ 843 ½ 740
Package Dimensions (W ½ H ½ D)		in	30-1/5 ½ 31-1/4 ½ 30-1/5	30-1/5 ½ 31-1/4 ½ 30-1/5	30-1/5 ½ 39-1/2 ½ 30-1/5	30-1/5 ½ 39-1/2 ½ 30-1/5
		mm	767 ½ 794 ½ 767	767 ½ 794 ½ 767	767 ½ 1003 ½ 767	767 ½ 1003 ½ 767
Weight (Net / Gross)		lbs	137 / 159	146 / 176	179 / 214	179 / 214
		kgs	62 / 72	66 / 80	81 / 97	81 / 97
INDOOR UNIT DATA						
Power Supply			208 -230V / 1Ph / 60Hz			
Min. / Max. Voltage			187 / 253			
Min. Circuit Ampacity - MCA		A	5	5	6	6
Max. Circuit Breaker (MOCP)		A	15	15	15	15
Recommended FUSE Size		A	15	15	15	15
Sound Pressure Level		dB(A)	57	58	60	62
Control Voltage		VAC	24	24	24	24
Throttle Type			TXV-3Ton	TXV-3Ton	TXV-5Ton	TXV-5Ton
Indoor Fan Motor	Type		ECM	ECM	ECM	ECM
	Horsepower	HP	1/2	1/2	3/4	3/4
	Full Load Amps (FLA)	A	3.8	3.8	5.4	5.4
	Rated RPM		1050	1050	1050	1050
Fan Blower	Material		Metal	Metal	Metal	Metal
	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal
Indoor Coil	Type		Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
	Tube Material		Aluminum	Aluminum	Aluminum	Aluminum
Electrical Heater (Optional)		kW	5 / 10	5 / 10 / 15	5 / 10 / 15 / 20	5 / 10 / 15 / 20
Air Flow		CFM	850	1150	1600	1700
External Static Pressure (Up to)		In W.c.	0.8	0.8	0.8	0.8
Dehumidification		pt/hr	2.5	3.8	5	6.1
External Dimensions (W ½ H ½ D)		in	21 ½ 46-1/2 ½ 21	21 ½ 46-1/2 ½ 21	21 ½ 56 ½ 24-1/2	21 ½ 56 ½ 24-1/2
		mm	533 ½ 1180 ½ 533	533 ½ 1180 ½ 533	533 ½ 1422 ½ 622	533 ½ 1422 ½ 622
Package Dimensions (W ½ H ½ D)		in	23 ½ 52 ½ 24-1/2	23 ½ 52 ½ 24-1/2	24-1/2 ½ 62 ½ 28	24-1/2 ½ 62 ½ 28
		mm	584 ½ 1320 ½ 622	584 ½ 1320 ½ 622	584 ½ 1570 ½ 710	584 ½ 1570 ½ 710
Weight (Net / Gross)		lbs	121 / 154	121 / 154	152 / 190	152 / 190
		kgs	55 / 70	55 / 70	69 / 86	69 / 86
REFRIGERANT PIPING						
Refrigerant Type / Charged		lbs. - oz. (kgs)	R454B / 4-11.8 (2.15)	R454B / 6-4.5 (2.85)	R454B / 8-13.1 (4.00)	R454B / 8-13.1 (4.00)
Pre-Charge Length		ft (m)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)
Additional Charge		oz/ft	0.54	0.54	0.54	0.54
Valve Size (Liquid - Suction)		in	3/8 - 3/4	3/8 - 3/4	3/8 - 3/4	3/8 - 3/4
Line Set Size (Liquid - Gas)		in	3/8 - 3/4	3/8 - 3/4	3/8 - 7/8	3/8 - 7/8
Lineset Length (Min - Max)		ft (m)	25(7.5) - 100(30)	25(7.5) - 100(30)	25(7.5) - 100(30)	25(7.5) - 100(30)
Max. Pipe Elevation		ft (m)	50 (15)	50 (15)	50 (15)	50 (15)
LIMITED WARRANTY		10 Years Parts, 10 Years Compressor - Residential				