

# TCL AC

## ADVANTAGE SERIES *Up to 19 SEER2*



### 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.



#### DC INVERTER TECHNOLOGY

Equipped with inverter technology, which adjusts the compressor speed based on room temperature, providing consistent cooling while consuming less energy.



#### 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 HVAC products, TCL delivers meaningful experiences through thoughtful design and the latest technology, helping you enjoy more of the things you love. For more info: [hvacsales@tcl.com](mailto:hvacsales@tcl.com) [www.tcl.com/hvac](http://www.tcl.com/hvac)

MODEL NUMBER - IDU		H24AHH17XAE	H24AHH17XAE	H36AHH18XAE	H48AHH18XAE	H60AHH16XAE	
MODEL NUMBER - ODU		H24TDH17XAC	H36TDH18XAC	H36TDH18XAC	H48TDH18XAC	H60TDH16XAC	
SYSTEM TYPE		Heat Pump					
SYSTEM PERFORMANCE							
AHRI CERTIFICATE							
		216706227	216706226	215869484	216046819	216046818	
Cooling at 95°F (35°C)	Capacity (Min - Max)	BTU/h	24,000 (7,000 - 25,000)	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	10	16	29	31
	SEER2 / EER2		18 / 10	19 / 11.7	19 / 10	18 / 9	17 / 8
Heating at 47°F (8.3°C)	Capacity (Min - Max)	BTU/h	24,000 (7,000 - 25,000)	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	10	16	29	31
	HSPF2 / COP		9 / 3.2	9 / 3.2	9 / 3.2	8.5 / 3.2	8.2 / 3
Heating at 17°F (-8.3°C)	Rated Capacity	BTU/h	19,000	21,000	25,000	35,000	38,000
Heating at 5°F (-15°C)	Rated Capacity	BTU/h	18,000	20,000	26,000	33,000	35,000
	COP		1.8	1.9	1.9	1.8	1.9
ENERGY STAR® Certified			No	Yes	No	Yes	No
ENERGY STAR® Cold Climate Certified			Yes	Yes	Yes	Yes	Yes
Ambient Temperature Range	Cooling	°F (°C)	5 - 125 (-15 - 52)	5 - 125 (-15 - 52)	5 - 125 (-15 - 52)	5 - 125 (-15 - 52)	5 - 125 (-15 - 52)
	Heating	°F (°C)	-5 - 80 (-20 - 27)	-5 - 80 (-20 - 27)	-5 - 80 (-20 - 27)	-5 - 80 (-20 - 27)	-5 - 80 (-20 - 27)
OUTDOOR UNIT DATA							
Power Supply		208 -230V / 1Ph / 60Hz					
Min. / Max. Voltage		187 / 253					
Min. Circuit Ampacity - MCA		A	16	22	22	35	35
Max. Circuit Breaker (MOCP)		A	25	35	35	60	60
Recommended FUSE Size		A	25	35	35	60	60
Sound Pressure Level		dB(A)	67	68	68	69	69
Control Voltage		VAC	24	24	24	24	24
Compressor	Type		Variable Rotary	Variable Rotary	Variable Rotary	Variable Rotary	Variable Rotary
	Full Load Amps (FLA)uf	A	10	16	15.8	26	26
	Rated Load Amps (RLA)	A	8.2	10.0	10.0	15.8	15.8
Condenser Coil	Throttle Type		EEV-1.8	EEV-2.5	EEV-2.5	EEV-3.2	EEV-3.2
	Tube Size (O.D.)		7mm	7mm	7mm	7mm	7mm
Fan Motor	Motor Type		DC	DC	DC	DC	DC
	Horsepower (HP)		1/4	1/4	1/4	1/4	1/4
	Full Load Amps (FLA)uf		1.1	1.1	1.1	1.1	1.1
External Dimensions ( W x H x D )	in		29-1/8 x 24-15/16 x 29-1/8	29-1/8 x 24-15/16 x 29-1/8	29-1/8 x 24-15/16 x 29-1/8	29-1/8 x 33-3/16 x 29-1/8	29-1/8 x 33-3/16 x 29-1/8
	mm		740 x 633 x 740	740 x 633 x 740	740 x 633 x 740	740 x 843 x 740	740 x 843 x 740
Package Dimensions ( W x H x D )	in		30-1/5 x 31-1/4 x 30-1/5	30-1/5 x 31-1/4 x 30-1/5	30-1/5 x 31-1/4 x 30-1/5	30-1/5 x 39-1/2 x 30-1/5	30-1/5 x 39-1/2 x 30-1/5
	mm		767 x 794 x 767	767 x 794 x 767	767 x 794 x 767	767 x 1003 x 767	767 x 1003 x 767
Weight (Net / Gross)	lbs		137 / 159	146 / 176	146 / 176	190 / 220	190 / 220
	kgs		62 / 72	66 / 80	66 / 80	86 / 100	86 / 100
INDOOR UNIT DATA							
Power Supply		208 -230V / 1Ph / 60Hz					
Min. / Max. Voltage		187 / 253					
Min. Circuit Ampacity - MCA		A	5	5	5	6	6
Max. Circuit Breaker (MOCP)		A	15	15	15	15	15
Recommended FUSE Size		A	15	15	15	15	15
Sound Pressure Level		dB(A)	57	57	58	60	62
Control Voltage		VAC	24	24	24	24	24
Throttle Type			TXV-3Ton	TXV-5Ton	TXV-5Ton	TXV-5Ton	TXV-5Ton
Indoor Fan Motor	Type		ECM	ECM	ECM	ECM	ECM
	Horsepower	HP	1/2	1/2	1/2	3/4	3/4
	Full Load Amps (FLA)	A	3.8	3.8	3.8	5.4	5.4
	Rated RPM		1050	1050	1050	1050	1050
Fan Blower	Material		Metal	Metal	Metal	Metal	Metal
	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Indoor Coil	Type		Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
	Tube Material		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Electrical Heater (Optional)	kW		5 / 10	5 / 10	5 / 10 / 15	5 / 10 / 15 / 20	5 / 10 / 15 / 20
Air Flow	CFM		850	850	1150	1600	1700
External Static Pressure (Up to)	in W.c.		0.8	0.8	0.8	0.8	0.8
Dehumidification	pt/hr		2.5	2.5	3.8	5	6.1
External Dimensions ( W x H x D )	in		21 x 46-1/2 x 21	21 x 46-1/2 x 21	21 x 46-1/2 x 21	21 x 56 x 24-1/2	21 x 56 x 24-1/2
	mm		533 x 1180 x 533	533 x 1180 x 533	533 x 1180 x 533	533 x 1422 x 622	533 x 1422 x 622
Package Dimensions ( W x H x D )	in		23 x 52 x 24-1/2	23 x 52 x 24-1/2	23 x 52 x 24-1/2	24-1/2 x 62 x 28	24-1/2 x 62 x 28
	mm		584 x 1320 x 622	584 x 1320 x 622	584 x 1320 x 622	584 x 1570 x 710	584 x 1570 x 710
Weight (Net / Gross)	lbs		121 / 154	121 / 154	121 / 154	154 / 190	154 / 190
	kgs		55 / 70	55 / 70	55 / 70	70 / 86	70 / 86
REFRIGERANT PIPING							
Refrigerant Type / Charged	lbs. - oz. (kgs)		R454B / 4-11.8 (2.15)	R454B / 6-4.5 (2.85)	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)	25 (7.5)
Additional Charge	oz/ft		0.54	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	3/8 - 3/4
Line Set Size (Liquid - Gas)	in		3/8 - 3/4	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) - 165(50)	25(7.5) - 165(50)
Max. Pipe Elevation	ft (m)		50 (15)	50 (15)	50 (15)	50 (15)	50 (15)
LIMITED WARRANTY							
10 Years Parts, 10 Years Compressor - Residential							

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