

TCL AIR CONDITIONER

Advantage Series

Inverter Heat Pump System



WHY CHOOSE TCL

We are dedicated to delivering outstanding climate solutions that help you enjoy a more comfortable and healthier living environment.



130,000
Employees



Has Products and Services
in **160+ Countries**



32 Production Bases



43 R&D Centers



Applied Patents
91053



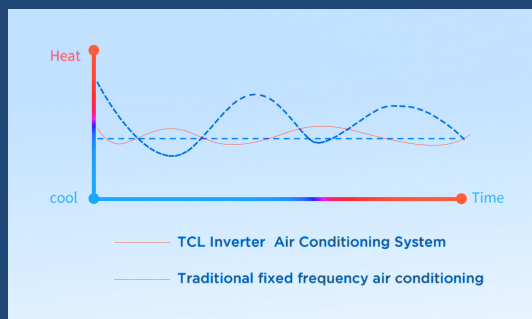
ADVANTAGE



DC-INVERTER COMPRESSOR

Higher energy efficiency, and
more reliable safety

- SEER2 reaches up to 18
- 187-253V Wide Voltage
Stable Operation
- 1°F Precise Room Temperature





Smart Control



24V thermostat

Compatible to all 3rd party 24V thermostat.

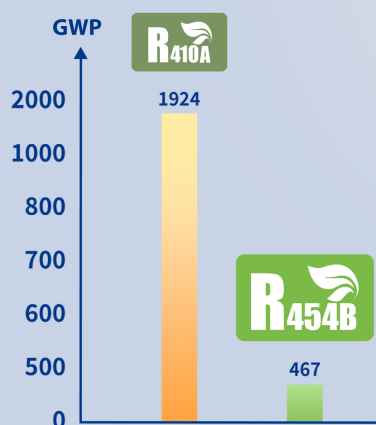


RS485 Wired controller

To activate smart functions such as dehumidification, energy saving, sleepmode, etc.

Multi-protection

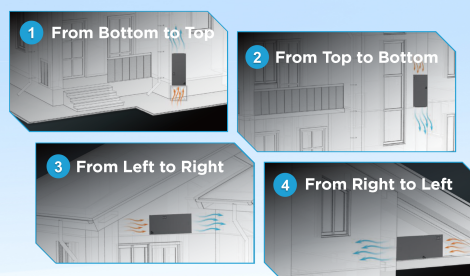
Pressure protection, temperature protection, and current protection to adapt to various extreme weather conditions.



R454B Refrigerant

Using the latest R454B environmentally friendly refrigerant, healthy, pollution-free, green, and more energy-efficient.

Easy Installation & Maintenance



■ IDU 4-Way Installation

■ Substitute Other Brands ODU

Residential Central Heat Pump & Air Handler Unit - Inverter Vertical System						
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)	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)		ϕ 7	ϕ 7	ϕ 7	ϕ 7
Fan Motor	Motor Type		DC	DC	DC	DC
	Horsepower (HP)		1/4	1/4	1/4	1/4
	Full Load Amps (FLA)		1.1	1.1	1.1	1.1
External Dimensions (W × H × D)	in		29-1/8 × 24-15/16 × 29-1/8	29-1/8 × 24-15/16 × 29-1/8	29-1/8 × 33-3/16 × 29-1/8	29-1/8 × 33-3/16 × 29-1/8
	mm		740 × 633 × 740	740 × 633 × 740	740 × 843 × 740	740 × 843 × 740
Package Dimensions (W × H × D)	in		30-1/5 × 31-1/4 × 30-1/5	30-1/5 × 31-1/4 × 30-1/5	30-1/5 × 39-1/2 × 30-1/5	30-1/5 × 39-1/2 × 30-1/5
	mm		767 × 794 × 767	767 × 794 × 767	767 × 1003 × 767	767 × 1003 × 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 × H × D)	in		21 × 46-1/2 × 21	21 × 46-1/2 × 21	21 × 56 × 24-1/2	21 × 56 × 24-1/2
	mm		533 × 1180 × 533	533 × 1180 × 533	533 × 1422 × 622	533 × 1422 × 622
Package Dimensions (W × H × D)	in		23 × 52 × 24-1/2	23 × 52 × 24-1/2	24-1/2 × 62 × 28	24-1/2 × 62 × 28
	mm		584 × 1320 × 622	584 × 1320 × 622	584 × 1570 × 710	584 × 1570 × 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				