

TCL AC

**APEX SERIES MULTI-ZONE
UNIVERSAL OUTDOOR
HVAC BROCHURE**

TCL AC

APEX SERIES MULTI-ZONE UNIVERSAL OUTDOOR UNIT



APEX SERIES MULTI ZONE UNIVERSAL OUTDOOR



COLD CLIMATE READY

Designed to thrive in the harshest winter environments, this system provides continuous heating performance down to -22°F (-30°C). Advanced inverter-driven technology delivers dependable warmth, exceptional efficiency, and year-round comfort—even during extreme cold-weather conditions.



MULTI ZONE OUTDOOR UNIT

Within the series, universal outdoor units allow almost free arrangement (simultaneous connection) of 1 to 6 indoor units of different types and capacities. Outdoor units are equipped with DC-inverter twin-rotor compressors with reduced vibration load and a wide range of performance adjustment.



EASY INSTALLATION AND COMPATABILITY

Designed for straightforward installation with a standard single-phase power supply, the unit pairs seamlessly with a wide range of TCL indoor units — giving installers and homeowners a flexible system solution.



MULTI-PROTECTION

Built-in evaporator pan overflow switch as well as pressure protection, temperature protection, and current protection to adapt to various extreme weather conditions.



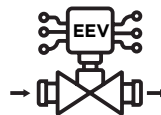
DC INVERTER TECHNOLOGY

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



SMART DEFROSTING

Precision defrost sensor accurately determines defrost cycle duration allowing the system to provide heat when you need it most.



ELECTRONIC EXPANSION VALVE (EEV)

Provides precise refrigerant flow control for enhanced comfort, higher energy efficiency, faster temperature response, and reliable performance across a wide range of operating conditions.



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.

MODEL NUMBER			H18FMHD3XPC	H27FMHD4XPC	H36FMHD5XPC	H48FMHD6XPC	H55FMHD6XPC
SYSTEM TYPE			Heat Pump				
NUMBER OF ZONES			2 - 3	2 - 4	2 - 5	2 - 6	2 - 6
SYSTEM PERFORMANCE (Non-Ducted Indoor Units)							
AHRI Certificate			218374501	218374502	218374503	218374504	218374505
Cooling at 95°F (35°C)	Capacity (Min - Max)	BTU/h	20,000 (4,500 - 31,000)	27,000 (5,500 - 37,500)	36,000 (6,500 - 46,000)	48,000 (7,500 - 56,000)	55,000 (7,500 - 56,000)
	Rated Input Power	W	1,400	2,000	2,700	3,950	5,500
	Rated Current	A	6.0	8.9	11.5	16	24
	SEER2 / EER2		27 / 15	26.5 / 14	25 / 13.6	24 / 12.3	22.5 / 10
Heating at 47°F (8.3°C)	Capacity (Min - Max)	BTU/h	20,000 (4,500 - 33,000)	27,000 (5,500 - 41,000)	36,000 (6,500 - 46,000)	48,000 (7,500 - 56,000)	55,000 (7,500 - 56,000)
	Rated Input Power	W	1,400	2,000	2,700	3,750	4,500
	Rated Current	A	6.2	8.6	11.5	15	19.8
	HSPF2 / COP		10 / 4.4	10.5 / 4.1	10 / 4	10 / 3.8	9.5 / 3.6
Heating at 17°F (-8.3°C)	Rated Capacity	BTU/h	23,000	28,000	36,000	48,000	48,000
Heating at 5°F (-15°C)	Rated Capacity	BTU/h	19,800	26,000	30,000	42,000	42,000
	COP		2	2	2	2	2
SYSTEM PERFORMANCE (Ducted Indoor Units)							
AHRI Certificate			218644501	218644502	218644503	218644504	218644505
Cooling at 95°F (35°C)	Capacity (Min - Max)	BTU/h	18,000 (4,500 - 31,000)	27,000 (5,500 - 37,500)	36,000 (6,500 - 46,000)	48,000 (7,500 - 55,000)	55,000 (7,500 - 55,000)
	Rated Input Power	W	1,250	2,075	2,930	4,150	5,600
	Rated Current	A	6.2	9.2	13.5	18.6	18.6
	SEER2 / EER2		21.5 / 13	22 / 12.5	20 / 11.7	20 / 11	18.5 / 9.5
Heating at 47°F (8.3°C)	Capacity (Min - Max)	BTU/h	18,000 (4,500 - 33,000)	28,000 (5,500 - 41,000)	36,000 (6,500 - 46,000)	48,000 (7,500 - 55,000)	55,000 (7,500 - 55,000)
	Rated Input Power	W	1,400	2,310	3,050	3,950	4,900
	Rated Current	A	6.3	10.3	13.6	17.5	17.5
	HSPF2 / COP		9 / 3.9	10.5 / 3.5	9 / 3.5	9 / 3.5	9 / 3.3
Heating at 17°F (-8.3°C)	Rated Capacity	BTU/H	21,400	30,000	34,400	51,000	51,000
Heating at 5°F (-15°C)	Rated Capacity	BTU/h	18,900	25,000	33,000	41,000	41,000
	COP		1.8	1.8	1.9	1.75	1.75
SYSTEM PERFORMANCE (Mixed Ducted & Non-Ducted Indoor Units)							
AHRI Certificate			218644506	218644507	218644508	218644509	218644510
Cooling at 95°F (35°C)	Capacity (Min - Max)	BTU/h	19,000 (4,500 - 31,000)	27,000 (5,500 - 37,500)	36,000 (6,500 - 46,000)	48,000 (7,500 - 55,500)	55,000 (7,500 - 55,500)
	SEER2 / EER2		24.25 / 14	24.25 / 13.25	22.5 / 12.65	22 / 11.65	20.5 / 9.75
Heating at 47°F (8.3°C)	Capacity (Min - Max)	BTU/h	19,000 (4,500 - 33,000)	27,600 (5,500 - 41,000)	36,000 (6,500 - 46,000)	48,000 (7,500 - 55,500)	55,000 (7,500 - 55,500)
	HSPF2 / COP		9.5 / 3.9	10.5 / 3.5	9.5 / 3.5	9.5 / 3.5	9.25 / 3.3
ELECTRICAL							
Power Supply			208-230V / 1Ph / 60Hz				
Voltage Range (Min - Max)			187 - 253				
Min. Circuit Ampacity - MCA		A	18	22	28	37	37
Max. Circuit Breaker (MOPA)		A	30	35	45	60	60
Max. FUSE Size		A	30	35	45	60	60
Main Power Wire Size		AWG	Per Local Code				
Connection Wiring		AWG	16AWG*4 Stranded, unshielded, TC-ER Type				
Communication Protocol Btwn. IDU & ODU			Current Loop				
REFRIGERANT PIPING							
Refrigerant Type / Charged		oz	R454b / 77.6	R454b / 98.8	R454b / 120	R454b / 148.2	R454b / 148.2
Pre-Charge Length Total		ft (m)	74 (22.5)	98 (30)	123 (37.5)	147 (45)	147 (45)
Additional Charge	Φ6.35 (1/4") liquid pipe	oz/ft	0.11	0.11	0.11	0.11	0.11
	Φ9.52 (3/8") liquid pipe	oz/ft	0.22	0.22	0.22	0.22	0.22
Design Pressure		PSIG	725	725	725	725	725
Port Size (Liquid - Gas)		in	3 x 1/4 - 3/8	4 x 1/4 - 3/8	5 x 1/4 - 3/8	6 x 1/4 - 3/8	6 x 1/4 - 3/8
Lineset Length (Max) - Each		ft (m)	98 (30)	98 (30)	98 (30)	98 (30)	98 (30)
Lineset Length (Max) - Total		ft (m)	197 (60)	263 (80)	295 (90)	393 (120)	393 (120)
Max. Line Set Height Difference Btwn. ODU & Furthest IDU		ft (m)	49 (15)	49 (15)	49 (15)	49 (15)	49 (15)
Max. Line Set Height Difference Btwn. IDU		ft (m)	33 (10)	33 (10)	33 (10)	33 (10)	33 (10)
OUTDOOR UNIT DATA							
Refrigerant Type			R454b				
Throttle Type			EEV				
Compressor & Motor Type			INVERTER, DC				
Air Flow		CFM	1,647	1,882	1,882	2,647	2,647
Sound Pressure Level		dB(A)	62	65	65	69	69
Cooling Temperature Range		°F (°C)	5 - 131 (-15 - 55)	5 - 131 (-15 - 55)	5 - 131 (-15 - 55)	5 - 131 (-15 - 55)	5 - 131 (-15 - 55)
Heating Temperature Range		°F (°C)	-22 - 86 (-30 - 30)	-22 - 86 (-30 - 30)	-22 - 86 (-30 - 30)	-22 - 86 (-30 - 30)	-22 - 86 (-30 - 30)
External Dimensions (W x H x D)	in		38 1/2 x 31 5/8 x 16 9/16	42 5/16 x 33 9/16 x 18 1/2	42 5/16 x 33 9/16 x 18 1/2	40-11/16 x 52-11/16 x 16-1/8	40-11/16 x 52-11/16 x 16-1/8
	mm		978 x 803 x 421	1074 x 853 x 468	1074 x 853 x 468	1034 x 1339 x 409	1034 x 1339 x 409
Package Dimensions (W x H x D)	in		40 1/4 x 32 7/8 x 18 7/8	44 11/16 x 38 3/16 x20 7/8	44 11/16 x 38 3/16 x20 7/8	42-1/2 x 53-9/16 x 16-15/16	42-1/2 x 53-9/16 x 16-15/16
	mm		1022 x 835 x 480	1135 x 970 x 530	1135 x 970 x 530	1080 x 1360 x 430	1080 x 1360 x 430
Weight (Net / Gross)	lbs		119 / 128	146 / 170	174 / 198	254 / 269	254 / 269
	kgs		54 / 58	66 / 77	79 / 90	115 /122	115 /122
LIMITED WARRANTY			5 Years Parts, 7 Years Compressor Limited Warranty / 10 Years Warranty with Registration within 60 Days of Installation				

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APEX SERIES MULTI ZONE UNIVERSAL OUTDOOR SPECIFICATIONS UNITS

18,000 BTU Three ZONE Condenser Combintations:

TWO UNITS		THREE UNITS		
6+9	9+12	6+6+6	6+9+12	9+9+12
6+12	9+18	6+6+9	6+9+18	9+9+18
6+18	12+12	6+6+12	6+12+12	9+12+12
9+9	12+18	6+6+18	6+12+18	12+12+12
		6+9+9	9+9+9	

27,000 BTU Four ZONE Condenser Combintations:

TWO UNITS			THREE UNITS					FOUR UNITS				
6+18	9+18	12+24	6+6+6	6+9+9	6+12+18	9+9+18	9+18+18	6+6+6+6	6+6+9+12	6+6+18+18	6+9+12+18	9+9+9+18
6+24	9+24	18+18	6+6+9	6+9+12	6+12+24	9+9+24	12+12+12	6+6+6+9	6+6+9+18	6+9+9+9	6+12+12+12	9+9+12+12
9+9	12+12	18+24	6+6+12	6+9+18	6+18+18	9+12+12	12+12+18	6+6+6+12	6+6+9+24	6+9+9+12	6+12+12+18	9+9+12+18
9+12	12+18	24+24	6+6+18	6+9+24	9+9+9	9+12+18	12+12+24	6+6+6+18	6+6+12+12	6+9+9+18	9+9+9+9	9+12+12+12
			6+6+24	6+12+12	9+9+12	9+12+24		6+6+6+24	6+6+12+18	6+9+9+24	9+9+9+12	12+12+12+12
								6+6+9+9	6+6+12+24	6+9+12+12		

36,000 BTU Five ZONE Condenser Combintations:

TWO UNITS		THREE UNITS				FOUR UNITS					FIVE UNITS			
6+18	12+18	6+6+9	6+9+24	9+9+9	9+18+18	6+6+6+6	6+6+9+24	6+9+9+18	6+12+12+24	9+9+12+24	6+6+6+6+6	6+6+6+9+24	6+6+9+9+24	6+9+9+12+12
6+24	12+24	6+6+12	6+9+30	9+9+12	9+18+24	6+6+6+9	6+6+12+12	6+9+9+24	6+12+18+18	9+9+18+18	6+6+6+6+9	6+6+6+12+12	6+6+9+12+12	6+9+9+12+18
9+12	18+18	6+6+18	6+12+12	9+9+18	12+12+12	6+6+6+12	6+6+12+18	6+9+12+12	9+9+9+9	9+9+18+24	6+6+6+6+12	6+6+6+12+18	6+6+9+12+18	6+9+12+12+12
9+18	18+24	6+6+24	6+12+18	9+9+24	12+12+18	6+6+6+18	6+6+12+24	6+9+12+18	9+9+9+12	9+12+12+12	6+6+6+6+18	6+6+6+12+24	6+6+9+9+12	9+9+9+9+9
9+24	24+24	6+9+9	6+12+24	9+12+12	12+12+24	6+6+6+24	6+6+18+18	6+9+12+24	9+9+9+18	9+12+12+18	6+6+6+6+24	6+6+6+18+18	6+6+12+12+18	9+9+9+9+12
12+12		6+9+12	6+18+18	9+12+18	12+18+18	6+6+9+9	6+6+18+24	6+9+18+18	9+9+9+24	12+12+12+12	6+6+6+9+9	6+6+9+9+9	6+9+9+9+9	9+9+9+9+18
		6+9+18	6+18+24	9+12+24	12+18+24	6+6+9+12	6+9+9+9	6+12+12+12	9+9+12+12	12+12+12+18	6+6+6+9+12	6+6+9+9+12	6+9+9+9+12	9+9+9+12+12
						6+6+9+18	6+9+9+12	6+12+12+18	9+9+12+18		6+6+6+9+18	6+6+9+9+18	6+9+9+9+18	9+9+12+12+12

48,000 BTU Six ZONE Condenser Combintations:

TWO UNITS		THREE UNITS			FOUR UNITS			FIVE UNITS				SIX UNITS		
6+24		6+6+18	6+18+18	9+12+36	6+6+6+6	6+9+9+18	9+9+12+12	6+6+6+6+6	6+6+9+9+9	6+9+9+9+12	9+9+9+9+9	6+6+6+6+6+6	6+6+6+9+9+24	6+6+9+12+12+18
6+36		6+6+24	6+18+24	9+18+18	6+6+6+9	6+9+9+24	9+9+12+18	6+6+6+6+9	6+6+9+9+12	6+9+9+9+18	9+9+9+9+12	6+6+6+6+6+9	6+6+6+9+12+12	6+6+12+12+12+12
9+18		6+6+36	6+18+36	9+18+24	6+6+6+12	6+9+12+12	9+9+12+24	6+6+6+6+12	6+6+9+9+18	6+9+9+9+24	9+9+9+9+18	6+6+6+6+6+12	6+6+6+9+12+18	6+9+9+9+9+9
9+24		6+9+9	9+9+9	9+18+36	6+6+6+18	6+9+12+18	9+9+18+18	6+6+6+6+18	6+6+9+9+24	6+9+9+12+12	9+9+9+9+24	6+6+6+6+6+18	6+6+6+9+12+24	6+9+9+9+9+12
9+36		6+9+12	9+9+12	12+12+12	6+6+6+24	6+9+12+24	9+9+18+24	6+6+6+6+24	6+6+9+12+12	6+9+9+12+18	9+9+9+12+12	6+6+6+6+6+24	6+6+6+9+18+18	6+9+9+9+9+18
12+12		6+9+18	9+9+18	12+12+18	6+6+9+9	6+9+18+18	9+12+12+12	6+6+6+9+9	6+6+9+12+18	6+9+9+12+24	9+9+9+12+18	6+6+6+6+9+9	6+6+6+12+12+12	6+9+9+9+12+12
12+18		6+9+24	9+9+24	12+12+24	6+6+9+12	6+9+18+24	9+12+12+18	6+6+6+9+12	6+6+9+12+24	6+9+9+18+18	9+9+9+12+24	6+6+6+6+9+12	6+6+6+12+12+18	6+9+9+9+12+18
12+24		6+9+36	9+9+36	12+12+36	6+6+9+18	6+12+12+12	9+12+12+24	6+6+6+9+18	6+6+9+18+18	6+9+12+12+12	9+9+9+18+18	6+6+6+9+12+18	6+6+9+9+9+9	6+9+9+12+12+12
12+36		6+12+12	9+12+12	12+18+18	6+6+9+24	6+12+12+18	9+12+18+18	6+6+6+9+24	6+6+9+18+24	6+9+12+12+18	9+9+12+12+12	6+6+6+6+9+24	6+6+9+9+9+12	6+9+12+12+12+12
18+18		6+12+18	9+12+18	12+18+24	6+6+12+12	6+12+12+24	9+12+18+24	6+6+6+12+12	6+6+12+12+12	6+9+12+12+24	9+9+12+12+18	6+6+6+6+12+12	6+6+9+9+9+18	9+9+9+9+9+9
18+24		6+12+24	9+12+24	18+18+18	6+6+12+18	6+12+18+18	9+18+18+18	6+6+6+12+18	6+6+12+12+18	6+9+12+18+18	9+12+12+12+12	6+6+6+6+12+18	6+6+9+9+9+24	9+9+9+9+9+12
18+36		6+12+36			6+6+12+24	6+12+18+24	12+12+12+12	6+6+6+12+24	6+6+12+12+24	6+12+12+12+12	9+12+12+12+18	6+6+6+6+18+18	6+6+9+9+12+12	9+9+9+9+9+18
24+24					6+6+18+18	9+9+9+9	12+12+12+18	6+6+6+18+18	6+6+12+18+18	6+12+12+12+18	12+12+12+12+12	6+6+6+9+9+9	6+6+9+9+12+18	9+9+9+9+12+12
24+36					6+6+18+24	9+9+9+12	12+12+12+24	6+6+6+18+24	6+9+9+9+9			6+6+6+9+9+12	6+6+9+12+12+12	9+9+9+12+12+12
					6+9+9+9	9+9+9+18	12+12+18+18					6+6+6+9+9+18	6+6+9+12+12+12	9+9+9+12+12+12
					6+9+9+12	9+9+9+24								

55,000 BTU Six ZONE Condenser Combintations:

TWO UNITS		THREE UNITS				FOUR UNITS			FIVE UNITS				SIX UNITS		
6+24		6+6+18	6+18+24	9+18+24	6+6+6+12	6+9+12+12	9+9+12+24	6+6+6+6+6	6+6+9+9+24	6+9+9+12+24	9+9+9+12+12	6+6+6+6+6+6	6+6+6+9+9+18	6+6+9+9+12+18	6+9+12+12+12+12
6+36		6+6+24	6+18+36	9+18+36	6+6+6+18	6+9+12+18	9+9+18+18	6+6+6+6+9	6+6+9+12+12	6+9+9+18+18	9+9+9+12+18	6+6+6+6+6+9	6+6+6+9+9+24	6+6+9+9+12+24	6+9+12+12+12+18
9+18		6+6+36	9+9+12	9+24+24	6+6+6+24	6+9+12+24	9+9+18+24	6+6+6+6+12	6+6+9+12+18	6+9+9+18+24	9+9+9+12+24	6+6+6+6+6+12	6+6+6+9+12+12	6+6+9+12+12+12	6+12+12+12+12+12
9+24		6+9+18	9+9+18	9+24+36	6+6+6+18	6+9+12+12	9+12+12+12	6+6+6+6+18	6+6+9+12+24	6+9+12+12+12	9+9+9+18+18	6+6+6+6+6+18	6+6+6+9+12+18	6+6+9+12+12+18	6+12+12+12+12+18
9+36		6+9+24	9+9+24	12+12+12	6+6+9+12	6+9+18+24	9+12+12+18	6+6+6+6+24	6+6+9+18+18	6+9+12+12+18	9+9+9+18+24	6+6+6+6+6+24	6+6+6+9+12+24	6+6+9+12+12+24	9+9+9+9+9+9
12+12		6+9+36	9+9+36	12+12+18	6+6+9+18	6+12+12+12	9+12+12+24	6+6+6+9+9	6+6+9+18+24	6+9+12+12+24	9+9+12+12+12	6+6+6+6+9+9	6+6+6+9+18+18	6+9+9+9+9+9	9+9+9+9+9+12
12+18		6+12+12	9+12+12	12+12+24	6+6+9+24	6+12+12+18	9+12+18+18	6+6+6+9+12	6+6+12+12+12	6+9+12+18+18	9+9+12+12+18	6+6+6+6+9+12	6+6+6+9+18+24	6+9+9+9+9+12	9+9+9+9+9+18
12+24		6+12+18	9+12+18	12+12+36	6+6+12+12	6+12+12+24	9+12+18+24	6+6+6+9+18	6+6+12+12+18	6+9+12+18+24	9+9+12+12+24	6+6+6+6+9+18	6+6+6+12+12+12	6+9+9+9+9+18	9+9+9+9+9+24
12+36		6+12+24	9+12+24	12+18+18	6+6+12+18	6+12+18+18	9+18+18+18	6+6+6+9+24	6+6+12+12+24	6+9+18+18+18	9+9+12+18+18	6+6+6+6+9+24	6+6+6+12+12+18	6+9+9+9+9+24	9+9+9+9+12+12
18+18		6+12+36	9+12+36	12+18+24	6+6+12+24	6+12+18+24	9+18+18+24	6+6+6+12+12	6+6+12+18+18	6+12+12+12+12	9+9+12+18+24	6+6+6+6+12+12	6+6+6+12+12+24	6+9+9+9+12+12	9+9+9+12+12+18
18+24		6+18+18	9+18+18	18+18+18	6+6+18+18	9+9+9+9	12+12+12+12	6+6+6+12+18	6+6+12+18+24	6+12+12+12+18	9+12+12+12+12	6+6+6+6+12+18	6+6+6+12+18+18	6+9+9+9+12+18	9+9+9+12+12+12
18+36					6+6+18+24	9+9+9+12	12+12+12+18	6+6+6+12+24	6+9+9+9+9	6+12+12+12+24	9+12+12+12+18	6+6+6+6+12+24	6+6+9+9+9+9	6+9+9+9+12+24	9+9+9+12+12+18
24+24					6+9+9+9	9+9+9+18	12+12+12+24	6+6+6+18+18	6+9+9+9+12	6+12+12+18+24	9+12+12+12+24	6+6+6+6+18+18	6+6+9+9+9+12	6+9+9+12+12+12	9+9+12+12+12+12
24+36					6+9+9+12	9+9+9+24	12+12+18+18	6+6+6+18+24	6+9+9+9+18	9+9+9+9+9	9+12+12+18+18	6+6+6+6+18+24	6+6+9+9+9+18	6+9+9+12+12+18	9+12+12+12+12+12
24+36					6+9+9+18	9+9+12+12	12+12+18+24	6+6+9+9+9	6+9+9+9+24	9+9+9+9+12	12+12+12+12+12	6+6+6+9+9+9	6+6+9+9+9+24	6+9+9+12+12+24	12+12+12+12+12+12
					6+9+9+24	9+9+12+18	6+6+6+6+6	6+6+9+9+12	6+9+9+12+12	9+9+9+9+18	12+12+12+12+18	6+6+6+9+9+12	6+6+9+9+12+12		
								6+6+9+9+18	6+9+9+12+18	9+9+9+9+24	12+12+12+12+24				