

TCL AC

MULTI MATCH SERIES PRODUCTS



REACH EVERY CORNER OF YOUR HOME



FULL DC DESIGN

DC inverter compressor and motor ensure increased energy savings and reliability of the system.



SMART DEFROSTING

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



WIDE TEMPERATURE OPERATION

Standard base pan heater ensures reliable heating operation down from -13°F to 75°F and cooling from 5°F to 136°F.



MULTIPLE PROTECTIONS

Voltage Protection-Overheating Protection-Temperature Protection-Overcurrent Protection-Loss Phase Protection



REFRIGERANT LEAKAGE ALARM

If a refrigerant leak occurs, the unit will shut down to prevent further damage to the system.



HOTEL MODE

The AC can be controlled automatically based on the status of doors or windows being opened or closed, and through the fire alarm system for emergency management.



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.

Multi Zone Universal Outdoor							
MODEL NUMBER			H18FMH22XPC		H27FMH22XPC	H36FMH21XPC	H42FMH20XPC
System Type			Heat Pump				
Number of Zones			2	2 – 3	2 – 4	2 – 5	
SYSTEM PERFORMANCE(Non-Ducted Indoor Units)							
AHRI Certificate			215387263		215387264	215387265	215387266
Cooling at 95°F (35°C)	Capacity (Min – Max)	BTU/h	18,000 (4,400 ~ 20,500)	27,000 (5,900 ~ 31,000)	35,000 (6,900 ~ 37,000)	42,000 (8,700 ~ 47,000)	
	Rated Input Power	W	1,400	2,160	2,750	3,400	
	Rated Current	A	6.1	9.4	12	14.8	
	SEER2 / EER2		24 / 13	24 / 12	22.5 / 12	22 / 12	
Heating at 47°F (8.3°C)	Capacity (Min – Max)	BTU/h	20,000 (4,400 ~ 23,200)	28,000 (5,900 ~ 33,500)	36,000 (6,900 ~ 41,000)	42,000 (8,700 ~ 47,000)	
	Rated Input Power	W	1,500	2,100	2,750	3,200	
	Rated Current	A	6.5	9.1	12	13.9	
	HSPF2 / COP		10 / 3.5	10 / 3.5	9.5 / 3.5	9.5 / 3.5	
Heating at 17°F (–8.3°C)	Rated Capacity	BTU/H	16,800	19,100	22,400	29,400	
Heating at 5°F (–15°C)	Rated Capacity	BTU/h	15,800	19,800	25,400	30,000	
	COP		2	2	2	2	
ENERGY STAR® Certified			YES	YES	YES	YES	
SYESTEM PERFORMANCE (Ducted Indoor Units)							
AHRI Certificate			215387267		215387268	215387269	215387270
Cooling at 95°F (35°C)	Capacity (Min – Max)	BTU/h	17,000 (4,400 ~ 20,500)	27,000 (5,900 ~ 31,000)	34,000 (6,900 ~ 37,000)	41,000 (8,700 ~ 47,000)	
	Rated Input Power	W	1,460	2,250	2,870	3,550	
	Rated Current	A	6.4	9.8	12.5	15.4	
	SEER2 / EER2		21 / 12	22 / 12	20 / 11.7	20 / 11.7	
Heating at 47°F (8.3°C)	Capacity (Min – Max)	BTU/h	19,000 (4,400 ~ 23,200)	27,000 (5,900 ~ 33,500)	36,000 (6,900 ~ 41,000)	42,000 (8,700 ~ 47,000)	
	Rated Input Power	W	1,560	2,190	2,870	3,350	
	Rated Current	A	6.8	9.5	12.5	14.6	
	HSPF2 / COP		9.5 / 3.5	9 / 3.4	8.5 / 3.2	8.5 / 3.2	
Heating at 17°F (–8.3°C)	Rated Capacity	BTU/H	16,800	19,100	22,400	29,400	
Heating at 5°F (–15°C)	Rated Capacity	BTU/h	16,000	19,000	25,200	30,400	
	COP		1.9	1.9	1.9	1.9	
ENERGY STAR® Certified			YES	YES	YES	YES	
SYESTEM PERFORMANCE (Mixed Ducted & Non-Ducted Indoor Units)							
Cooling at 95°F (35°C)	Capacity (Min – Max)	BTU/h	17,500 (4,400 ~ 20,500)	27,000 (5,900 ~ 31,000)	34,500 (6,900 ~ 37,000)	41,500 (8,700 ~ 47,000)	
	SEER2 / EER2		22.5/ 12.5	23/12	21 / 11.7	21 / 11.7	
Heating at 47°F (8.3°C)	Capacity (Min – Max)	BTU/h	19,500 (4,400 ~ 23,200)	27,500 (5,900 ~ 33,500)	36,000 (6,900 ~ 41,000)	42,000 (8,700 ~ 47,000)	
	HSPF2 / COP		9.8 / 3.5	9.5 / 3.4	9 / 3.4	9 / 3.4	
ENERGY STAR® Certified			YES	YES	YES	YES	
ELECTRICAL							
Power Supply		208–230V / 1Ph / 60Hz					
Voltage Range (Min – Max)		175 ~ 265					
Min. Circuit Ampacity – MCA		A	16	18	22	28	
Max. Circuit Breaker (MOPA)		A	25	30	35	45	
Max. FUSE Size		A	25	30	35	45	
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 / 60.01	R454b / 77.66	R454b / 98.84	R454b / 120.02	
Pre-Charge Length Total		ft (m)	49 (15)	74 (22.5)	98 (30)	123 (37.5)	
Additional Charge	Φ6.35 (1/4") liquid pipe	oz/ft	0.11	0.11	0.11	0.11	
	Φ9.52 (3/8") liquid pipe	oz/ft	0.22	0.22	0.22	0.22	
Design Pressure		PSIG	725	725	725	725	
Port Size (Liquid – Gas)		in	2 x 1/4 – 3/8	3 x 1/4 – 3/8	4 x 1/4 – 3/8	5 x 1/4 – 3/8	
Lineset Length (Max) – Each		ft (m)	82 (25)	98 (30)	98 (30)	98 (30)	
Lineset Length (Max) – Total		ft (m)	131 (40)	197 (60)	263 (80)	295 (90)	
Max. Line Set Height Difference Btwn. ODU & Furthest IDU		ft (m)	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)	
OUTDOOR UNIT DATA							
Refrigerant Type		R454b					
Throttle Type		Capillary +EXV					
Compressor & Motor Type		INVERTER, DC					
Air Flow		CFM	1,471	1,647	1,882	2,000	
Sound Pressure Level		dB(A)	58	62	65	65	
Cooling Temperature Range		°F (°C)	5–133 (–15–55)	5–133 (–15–55)	5–133 (–15–55)	5–133 (–15–55)	
Heating Temperature Range		°F (°C)	–13–86 (–25–30)	–13–86 (–25–30)	–13–86 (–25–30)	–13–86 (–25–30)	
External Dimensions (W x H x D)	in	36 1/2 x 27 1/2 x 14 15/16	38 1/2 x 31 5/8 x 16 9/16	42 11/25 x 31 5/8 x 14 1/8	42 11/25 x 31 5/8 x 14 1/8		
	mm	927 x 699 x 380	978x803 x 421	1074 x 853 x 468	1074 x 853 x 468		
Package Dimensions (W x H x D)	in	37 13/16 x 28 13/16 x 16 15/16	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		
	mm	960 x 732 x 430	1022 x 835 x 480	1135 x 970 x 530 *	1135 x 970 x 530 *		
Weight (Net / Gross)	lbs	92.6 / 99.2	119 / 127.9	145.5 / 169.8	174.2 / 198.4		
	kgs	42 / 45	54 / 58	66 / 77	79 / 90		
LIMITED WARRANTY		5 Years Parts, 7 Years Compressor Warranty/10 Year Warranty with Registration within 60 days of Installation					