



APEX XT SERIES P SERIES FRONT RETURN AHU COLD CLIMATE HEATING TO -22°F



APEX XT & AHR PFR



FRONT RETURN AIR HANDLER UNIT

Our convertible front return air handler offers flexible installation with convertible front return or vertical up-flow airflow configurations, allowing it to adapt to a wide variety of residential and commercial layouts.



DC INVERTER TECHNOLOGY

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



SMART CONTROL 24V THERMOSTAT

Compatible with all 3rd Party 24v Thermostats. RS485 Wired-Controller- To activate smart functions such as dehumidification, energy saving, sleep mode, etc.



SMART DEFROSTING

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



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.



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.



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 - IDU		H18FAHUDE		H24FAHUDE		H30FAHUDE		H36FAHUDE	
MODEL NUMBER - ODU		H18TDHXPC		H24TDHXPC		H30TDHXPC		H36TDHXPC	
SYSTEM TYPE			Heat Pump						
SYSTEM PERFORMANCE									
AHRI Certificate			218332482	218332483	218332484	218332485			
Cooling at 95°C (35°C)	Capacity (Min - Max)	BTU/h	18,000 (7,000 - 23,600)	24,000 (7,000 - 28,400)	30,000 (15,000 - 36,400)	36,000 (15,000 - 43,600)			
	Rated Current	A	10	12	13	16			
	SEER2 / EER2		17 / 11	17 / 11	17 / 11.7	17 / 10			
Heating at 47°F (8.3°C)	Rated Capacity	BTU/h	18,000 (8,100 - 24,400)	24,000 (8,100 - 32,000)	30,000 (14,500 - 36,800)	36,000 (14,500 - 46,000)			
	Rated Current	A	10	12.5	13	14.5			
	HSPF2 (IV) / COP		9.5 / 3.6	9.5 / 3.6	9.5 / 3.6	9.5 / 3.5			
Heating at 17°F (-8.3°C)	Rated Capacity	BTU/h	18,000	24,000	30,000	36,000			
Heating at 5°F (-15°C)	Rated Capacity	BTU/h	18,000	24,000	30,000	36,000			
	COP		1.9	1.9	1.9	1.8			
Ambient Temperature Range	Cooling	°F (°C)	5 - 131 (-15 - 55)	5 - 131 (-15 - 55)	5 - 131 (-15 - 55)	5 - 131 (-15 - 55)			
	Heating	°F (°C)	-22 - 80 (-30 - 27)	-22 - 80 (-30 - 27)	-22 - 80 (-30 - 27)	-22 - 80 (-30 - 27)			
OUTDOOR UNIT DATA									
Power Supply		208 -230V / 1Ph / 60Hz							
Min. / Max. Voltage		187 / 253							
Min. Circuit Ampacity (MCA)		A	23	23	34	34			
Max. Circuit Breaker (MOP)		A	35	35	50	50			
Sound Pressure Level		dB(A)	64	65	67	68			
Control Voltage		VAC	24	24	24	24			
Compressor	Type		Variable Rotary	Variable Rotary	Variable Rotary	Variable Rotary			
	Full Load Amps (FLA)	A	12.5	12.5	14.3	14.3			
	Rated Load Amps (RLA)	A	7	7	12.9	12.9			
Condenser Coil		Throttle Type	EEV-2.5	EEV-2.5	EEV-3.0	EEV-3.0			
Fan Motor	Motor Type		DC	DC	DC	DC			
	Horsepower (HP)		1/9	1/9	1/9	1/9			
	Full Load Amps (FLA)		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 24-15/16 x 29-1/8			
		mm	740 x 633 x 740	740 x 633 x 740	740 x 633 x 740	740 x 633 x 740			
Package Dimensions (W x D x H)		in	30-3/16 x 31-1/4 x 30-3/16	30-3/16 x 31-1/4 x 30-3/16	30-3/16 x 31-1/4 x 30-3/16	30-3/16 x 31-1/4 x 30-3/16			
		mm	767 x 794 x 767	767 x 794 x 767	767 x 794 x 767	767 x 794 x 767			
Weight (Net / Gross)		lbs	145 / 176	145 / 176	169 / 200	169 / 200			
		kgs	66 / 80	66 / 80	77 / 91	77 / 91			
INDOOR UNIT DATA									
Power Supply		115V / 208 -230V / 1Ph / 60Hz							
Min. / Max. Voltage		103 / 127 / 187 / 253							
Min. Circuit Ampacity - MCA		A	5	5	5	5			
Max. Circuit Breaker (MOCP)		A	15	15	15	15			
Sound Pressure Level		dB(A)	60	60	58	58			
Throttle Type			EEV-1.8	EEV-1.8	EEV-3.0	EEV-3.0			
Indoor Fan Motor	Type		ECM	ECM	ECM	ECM			
	Horsepower	HP	1/3	1/3	1/2	1/2			
	Full Load Amps (FLA)	A	2.4	2.4	3.8	3.8			
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	3 / 5 / 8	3 / 5 / 8	3 / 5 / 8 / 10	3 / 5 / 8 / 10			
Air Flow		CFM	750	750	1145	1200			
External Static Pressure (Up to)		In W.C.	0.8	0.8	0.8	0.8			
Dehumification		pt/hr	1.6	2.2	2.5	3.5			
External Dimensions (W x H x D)		in	20-5/16 x 36 x 15-11/16	20-5/16 x 36 x 15-11/16	22 x 40 1/16 x 21-3/16	22 x 40 1/16 x 21-3/16			
		mm	515 x 914 x 399	515 x 914 x 399	559 x 1017 x 538	559 x 1017 x 538			
Package Dimensions (W x H x D)		in	24-1/4 x 46-7/16 x 18-3/8	24-1/4 x 46-7/16 x 18-3/8	25-5/16 x 51-3/16 x 22-3/4	25-5/16 x 51-3/16 x 22-3/4			
		mm	616 x 1180 x 467	616 x 1180 x 467	642 x 1300 x 578	642 x 1300 x 578			
Weight (Net / Gross)		lbs	112 / 147	112 / 147	130 / 169	130 / 169			
		kgs	51 / 67	51 / 67	59 / 77	59 / 77			
REFRIGERANT PIPING									
Refrigerant Type / Charged		lbs. - oz. (kgs)	R454B / 4-6.6 (2.0)	R454B / 4-6.6 (2.0)	R454B / 7-15 (3.6)	R454B / 7-15 (3.6)			
Pre-Charge Length		ft (m)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)			
Additional Charge		oz/ft	0.38	0.38	0.38	0.38			
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 - 3/4	3/8 - 3/4			
Lineset Length (Min - Max)		ft (m)	25 - 165 (7.5 - 50)	25 - 165 (7.5 - 50)	25 - 165 (7.5 - 50)	25 - 165 (7.5 - 50)			
Max. Pipe Elevation		ft (m)	98 (30)	98 (30)	98 (30)	98 (30)			
LIMITED WARRANTY		10 Years Parts, 10 Years Compressor Limited Warranty - Residential							

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