



INSPIRE GREATNESS

SUBMITTAL DATA SHEET

Job Name _____
Buyer _____
Submitted to _____
Unit Designation _____

Location _____
Engineer _____
Reference _____ Approval _____ Construction _____
Schedule # _____

AHRI # 216046819

Set Code
Indoor Code _____
Outdoor Code _____

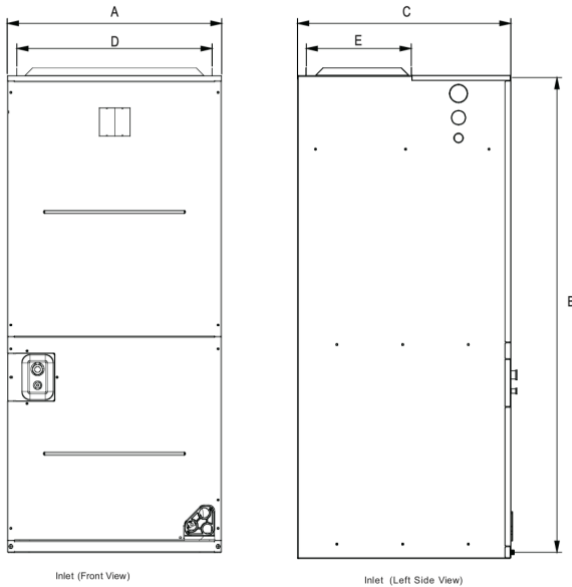
Set Model # H48AHH18XAE
Indoor Model # H48AHH18XAE
Outdoor Model # H48TDH18XAC

Certification ETL AHRI



(Actual equipment appearance may vary)

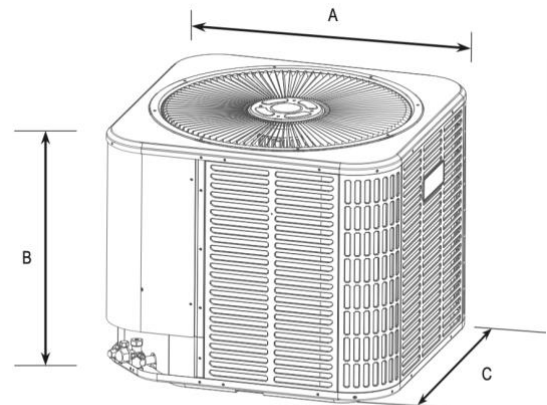
Indoor Unit Dimension



Model	indoor Unit (inch / mm)				
	A	B	C	D	E
H48AHH18XAE	21.0/533	56.0/1422	24.5/622	22.2/578	10.3/262

Outdoor Unit Dimension

Model	indoor Unit (inch / mm)		
	A	B	C
H48TDH18XAC	29.1 / 740	33.2 / 843	29.1 / 740



External dimensions

TCL NORTH AMERICA

189 Technology Dr, Irvine, CA 92618

www.tcl.com



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SYSTEM PERFORMANCE DATA			
Power supply			
Power Supply		208 -230V / 1Ph / 60Hz	
Voltage Range (Min - Max)	V	187 / 253	
Electrical			
Min. Circuit Ampacity - MCA	A	7 – IDU / 35 - ODU	
Max. Circuit Breaker	A	15 – IDU / 60 - ODU	
Recommended FUSE Size	A	15 – IDU / 60 - ODU	
Cooling at 95°F (35°C)			
Capacity	BTU/h	47,000	
(Min - Max)		(9,000 - 48,000)	
Rated Current	A	29	
SEER2 / EER2		18 / 9	
Heating at 47°F (8.3°C)			
Capacity	BTU/h	47,000	
(Min - Max)	W	(14,000 ~ 50,000)	
Rated Current	A	29	
HSPF2 -4 / COP		8.5 / 3.2	
Heating at 17°F (-8.3°C)			
Capacity	BTU/h	35,000	
Heating at 5°F (-15°C)			
Capacity	BTU/h	33,000	
COP		1.8	

REFRIGERANT PIPING DATA			
Refrigerant Type / Charged	oz	R454B / 8-13.1 (4.00)	
Pre-Charge Length Total	ft (m)	25 (7.5)	
Additional Charge	oz/ft	0.54	
Valve Size (Liquid - Suction)	in	3/8 - 3/4	
Line Set Sized (Liquid - Gas)	in	3/8 - 7/8	
Line Set Length (Min - Max)	ft (m)	25(7.5) ~ 100(30)	
Max. Pipe Elevation	ft (m)	50 (15)	
Throttle Type(IDU)		TXV-5Ton	
Throttle Type(ODU)		EEV-3.2	

TEMPERATURE RANGE			
Outdoor Cooling Range	°F	5 ~ 125	
	°C	-15 ~ 52	
Outdoor Heating Range	°F	-5 ~ 80	
	°C	-20 ~ 27	

INDOOR UNIT DATA			
Fan Motor Type			
Model		ECM with centrifugal fan	
Brand		ZWK702F0H0033	
Input		Broad-Ocean	
	HP	3/4	
Speed	r/min	1050	
Performance			
Air Flow (Hi)	CFM	1700	
Sound Pressure (Min - Max)	dB(A)	62	
Unit Data			
External Dimensions	in	21.0 × 56.0 × 24.5	
(W × H × D)	mm	533 × 1422 × 622	
Package Dimensions	in	22.9 × 61.8 × 27.9	
(W × H × D)	mm	584 × 1570 × 710	
Weight (Net / Gross)	Lbs.(kgs)	154/190 (70/86)	
Thermostat type			
24VAC Universal Thermostat / TCL RS485 Wired Controller			

OUTDOOR UNIT DATA			
Compressor Type			
Brand & Model		Variable Rotary	
		HIGHLY/ MTH420SKPC8FQ	
Input	W	2580	
RLA	A	10	
Motor Type			
Brand & Model		DC	
		Broad-Ocean / ZW511D000018L	
Input	W	195	
Speed	r/min	1050	
Performance			
Sound Pressure Level	dB(A)	69	
Control Voltage	VAC	24	
Unit Data			
External Dimensions	in	29.1 × 33.2 × 29.1	
(W × H × D)	mm	740 × 843 × 740	
Package Dimensions	in	30.2 × 39.5 × 30.2	
(W × H × D)	mm	767 × 1003 × 767	
Weight (Net / Gross)	Lbs(kgs)	190/220 (86/100)	
Limited Warranty		10 Years Parts & 10 Years Compressor	

General Features:

- Flexible Installation
- Easy Access for Wiring
- Quiet Operation
- Consistent Room Temperature
- Universal Match for 24V and 485
- Intelligent Anti-Cold Air Design
- Intelligent Defrosting
- Multi-protection
- Wide Voltage Operation
- Energy Saving
- Wide Operation Range
- Environmentally-friendly Refrigerant
- Consistent Air Flow
- 4-way installation

TCL NORTH AMERICA

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Central Air Conditioning Heat Pump (HP)

Singlezone Ducted, Centrally Ducted

AHRI Cert #: **216046819**Outdoor Unit Model #: **H48TDH18XAC**Indoor Model #: **H48AAH18XAE**🔥 Maximum Heating Capacity (Btu/h) @5°F: **33,000**🔥 Rated Heating Capacity (Btu/h) @47°F: **47,000**❄️ Rated Cooling Capacity (Btu/h) @95°F: **47,000**

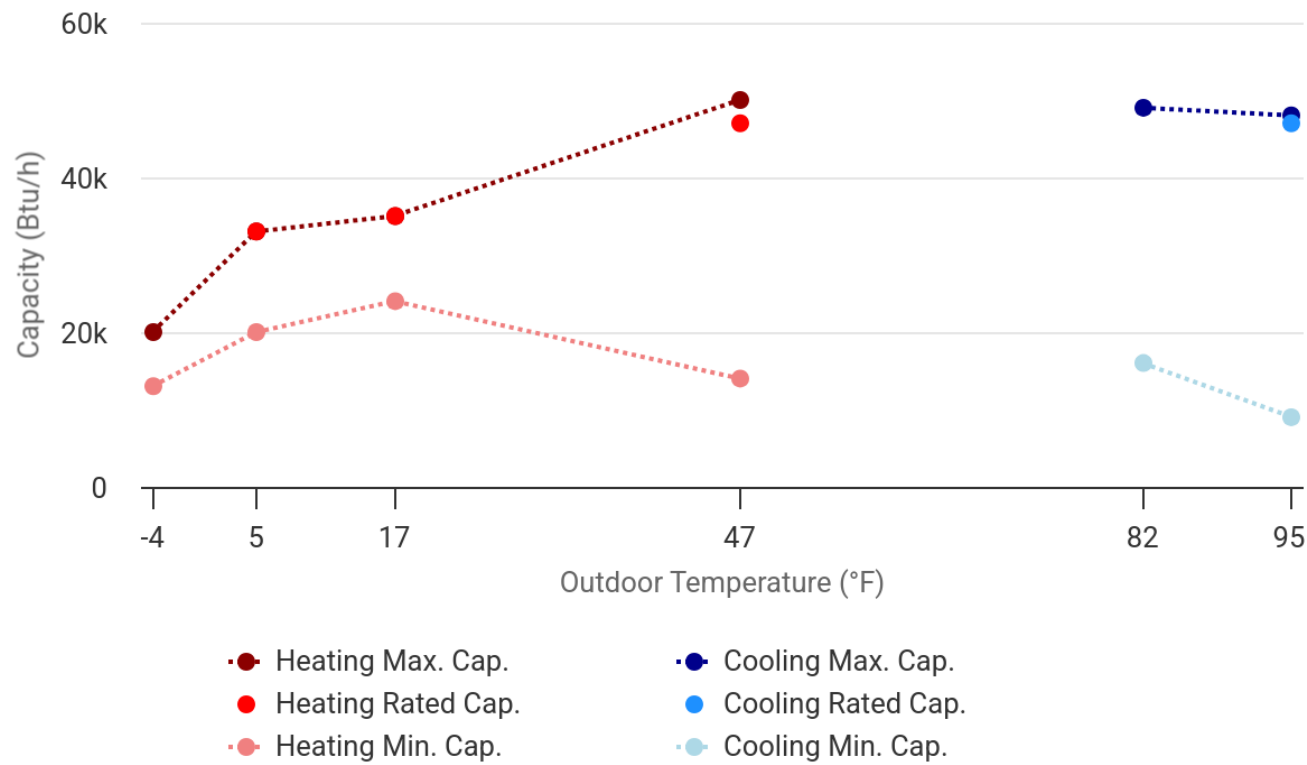
Information Tables

Brand	TCL
Series	
Ducting Configuration	Singlezone Ducted, Centrally Ducted
AHRI Certificate #*	216046819
Outdoor Unit Model #*	H48TDH18XAC
Indoor Model #*	H48AAH18XAE
Indoor Unit Type*	Ducted Indoor Units
Furnace Model* #	
EER*	
SEER*	
HSPF (Region IV)*	
EER2*	9
SEER2*	18
HSPF2 (Region IV)*	8.5
HSPF2 (Region V)	7.35
ENERGY STAR V6.1	✓
ENERGY STAR V6.1 Cold Climate	✓
ENERGY STAR V5.0	
Federal Tax Credit Eligibility North	
Federal Tax Credit Eligibility South	
CEE Tier 1 Path A (2025)	
CEE Tier 1 Path B (2025)	
Capacity Maintenance (Rated 17°F/Rated 47°F)	74%
Capacity Maintenance (Rated 5°F/Rated 47°F)	70%
Capacity Maintenance (Max 5°F/Rated 47°F)	70%
Variable Capacity	✓
Integration	
Connectivity	
Operational Diagnostics	
Refrigerant	R-454B
Sold In*	USA, Canada

Performance Specs

Heating / Cooling	Outdoor Dry Bulb	Indoor Dry Bulb	Unit	Min	Rated*	Max
Cooling	95°F	80°F	Btu/h*	9,000	47,000	48,000
			kW	0.82	5.22	5.41
			COP	3.22	2.64	2.6
Cooling	82°F	80°F	Btu/h*	16,000	-	49,000
			kW	0.62	-	4.26
			COP	7.56	-	3.37
Heating	47°F	70°F	Btu/h*	14,000	47,000	50,000
			kW	0.85	4.3	4.88
			COP	4.83	3.2	3
Heating	17°F	70°F	Btu/h*	24,000	35,000	35,000
			kW	2.81	5.13	5.13
			COP	2.5	2	2
Heating	5°F	70°F	Btu/h*	20,000	33,000	33,000
			kW	2.55	5.09	5.09
			COP	2.3	1.9	1.9
Heating	-4°F	70°F	Btu/h*	13,000	-	20,000
			kW	3.05	-	4.9
			COP	1.25	-	1.2

Heating/Cooling Capacity Graph



Highcharts.com