



TCL Advantage Series Unitary Central Heat Pump and AHU System – R454B

INSPIRE GREATNESS

SUBMITTAL DATA SHEET

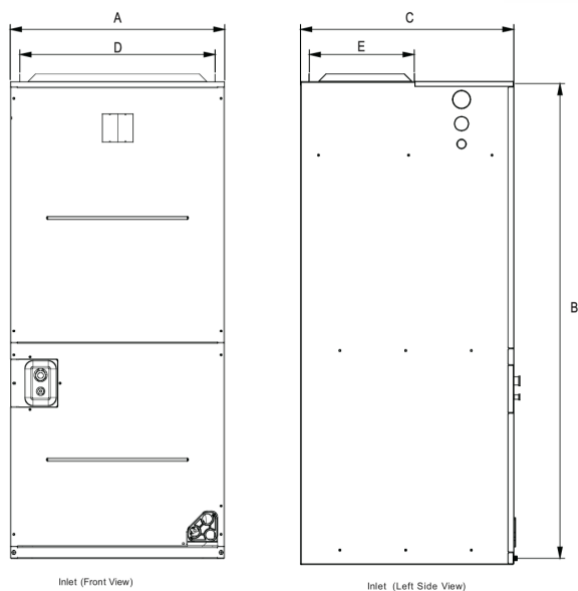
Job Name _____
Buyer _____
Submitted to _____
Unit Designation _____

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

AHRI #	215869484
Set Code	
Indoor Code	
Outdoor Code	
Set Model #	H36AHH18XA
Indoor Model #	H36AHH18XAE
Outdoor Model #	H36TDH18XAC
Certification	ETL AHRI



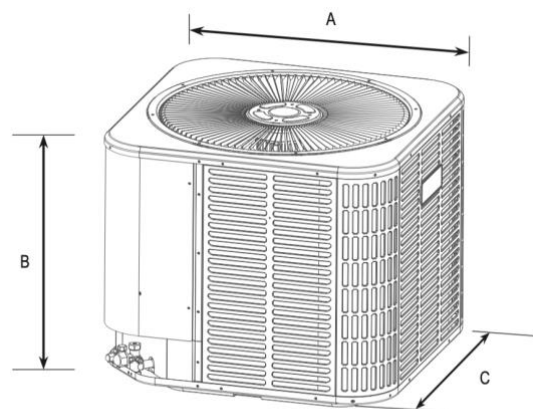
Indoor Unit Dimension



Model	indoor Unit (inch / mm)				
	A	B	C	D	E
H36AHH18XAE	21.0/533	46.5/1180	21.0/533	19.3 / 489	10.3/262

Outdoor Unit Dimension

Model	indoor Unit (inch / mm)		
	A	B	C
H36TDH18XAC	29.1 / 740	24.9 / 633	29.1 / 740



TCL NORTH AMERICA

189 Technology Dr, Irvine, CA 92618

External dimensions

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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	5 – IDU / 22 - ODU
Max. Circuit Breaker	A	15 – IDU / 35 - ODU
Recommended FUSE Size	A	15 – IDU / 35 - ODU

Cooling at 95°F (35°C)

Capacity	BTU/h	34,000
(Min - Max)		(8,000 - 39,000)
Rated Current	A	16
SEER2 / EER2		19 / 10

Heating at 47°F (8.3°C)

Capacity	BTU/h	36,000
(Min - Max)	W	(6,200 - 42,000)
Rated Current	A	16

HSPF2 -4 / COP

9 / 3.2

Heating at 17°F (-8.3°C)

Capacity	BTU/h	25,000
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Heating at 5°F (-15°C)

Capacity	BTU/h	26,000
COP		1.9

REFRIGERANT PIPING DATA

Refrigerant Type / Charged	oz	R454B / 6-4.5 (2.85)
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 - 3/4
Line Set Length (Min - Max)	ft (m)	25(7.5) ~ 100(30)
Max. Pipe Elevation	ft (m)	50 (15)
Throttle Type(IDU)		TXV-3Ton
Throttle Type(ODU)		EEV-2.5

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

ECM with centrifugal fan

Model ZWK702D0H0032

Brand Broad-Ocean

Input HP 1/2

Speed r/min 1050

Performance

Air Flow (Hi) CFM 850

Sound Pressure (Min - Max) dB(A) 58

Unit Data

External Dimensions in 21.0 × 46.5 × 21.0

(W × H × D) mm 533 × 1180 × 533

Package Dimensions in 23.0 × 52.0 × 24.5

(W × H × D) mm 584 × 1320 × 622

Weight (Net / Gross) Lbs.(kgs) 122/154 (55.5/70)

24VAC Universal Thermostat / TCL

Thermostat type

RS485 Wired Controller

OUTDOOR UNIT DATA

Compressor Type

Variable Rotary

Brand & Model HIGHLY/ MTD280SKPC8LT8C

Input W 2470

RLA A 10

Motor Type

DC

Brand & Model Broad-Ocean / ZW511D000018L

Input W 195

Speed r/min 1050

Performance

Sound Pressure Level dB(A) 68

Control Voltage VAC 24

Unit Data

External Dimensions in 29.1 × 24.9 × 29.1

(W × H × D) mm 740 × 633 × 740

Package Dimensions in 30.2 × 31.25 × 30.2

(W × H × D) mm 767 × 794 × 767

Weight (Net / Gross) Lbs(kgs) 146/176 (66/80)

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

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Central Air Conditioning Heat Pump (HP)
Singlezone Non-Ducted, Wall Placement
AHRI Cert #: **215869484**
Outdoor Unit Model #: **H36TDH18XAC**
Indoor Model #: **H36AHH18XAE**
🔥 Maximum Heating Capacity (Btu/h) @5°F: **27,470**
🔥 Rated Heating Capacity (Btu/h) @47°F: **36,000**
❄️ Rated Cooling Capacity (Btu/h) @95°F: **34,000**

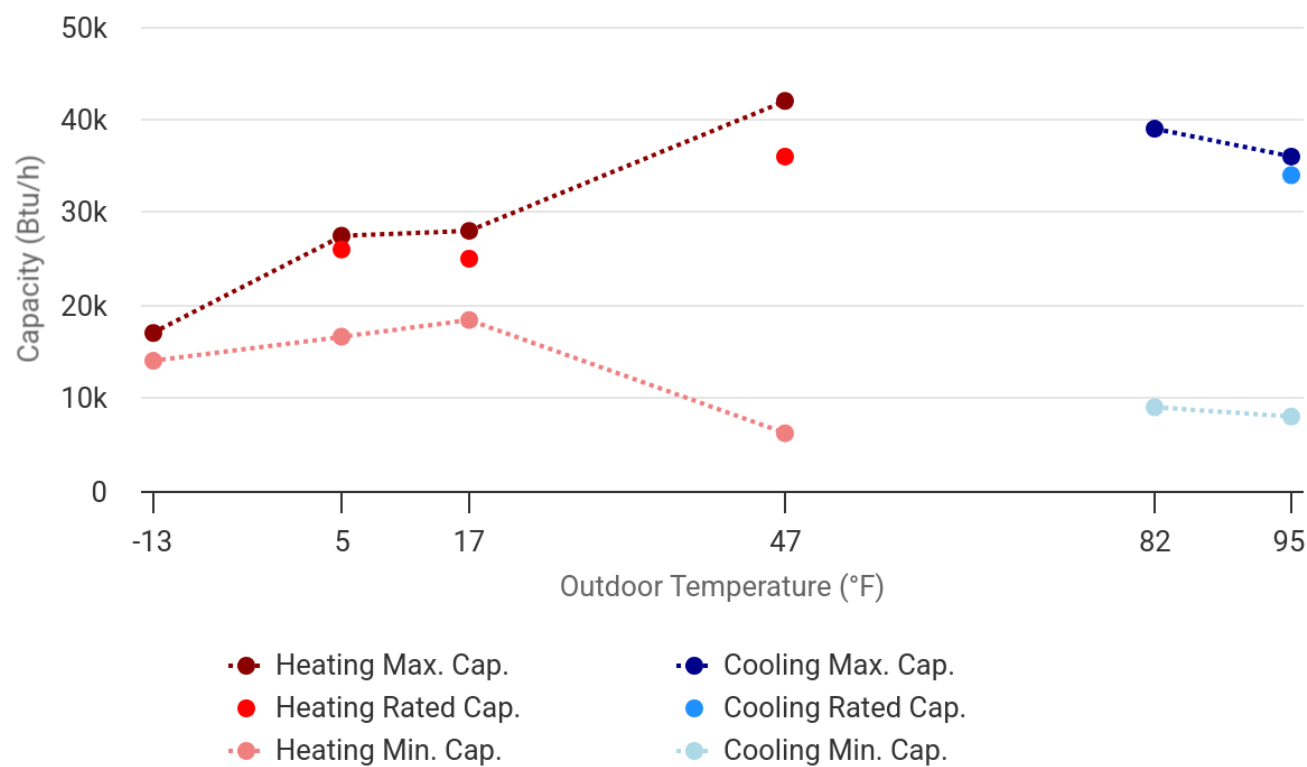
Information Tables

Brand	TCL
Series	
Ducting Configuration	Singlezone Non-Ducted, Wall Placement
AHRI Certificate #*	215869484
Outdoor Unit Model #*	H36TDH18XAC
Indoor Model #*	H36AHH18XAE
Indoor Unit Type*	Ducted Indoor Units
Furnace Model* #	
EER*	
SEER*	
HSPF (Region IV)*	
EER2*	10
SEER2*	19
HSPF2 (Region IV)*	9
HSPF2 (Region V)	7.8
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)	69%
Capacity Maintenance (Rated 5°F/Rated 47°F)	72%
Capacity Maintenance (Max 5°F/Rated 47°F)	76%
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*	8,000	34,000	36,000
			kW	0.62	3.4	3.7
			COP	3.78	2.93	2.85
Cooling	82°F	80°F	Btu/h*	9,000	-	39,000
			kW	0.38	-	3.2
			COP	6.94	-	3.57
Heating	47°F	70°F	Btu/h*	6,200	36,000	42,000
			kW	0.52	3.35	3.9
			COP	3.49	3.15	3.16
Heating	17°F	70°F	Btu/h*	18,400	25,000	28,000
			kW	1.87	3.2	3.7
			COP	2.88	2.29	2.22
Heating	5°F	70°F	Btu/h*	16,600	26,000	27,470
			kW	2.1	4.01	4.25
			COP	2.32	1.9	1.89
Heating	-13°F	70°F	Btu/h*	14,000	-	17,000
			kW	2.5	-	3.8
			COP	1.64	-	1.31

Heating/Cooling Capacity Graph



Highcharts.com