



TCL Light Commercial Series Slim Duct Heat Pump System – R454b

INSPIRE GREATNESS

SUBMITTAL DATA SHEET

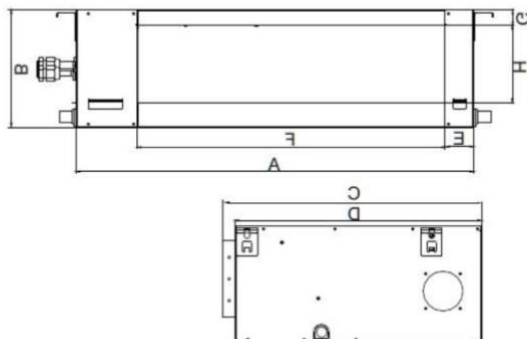
Job Name _____
 Buyer _____
 Submitted to _____
 Unit Designation _____

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

AHRI #	215570375		
Set Code			
Indoor Code			
Outdoor Code			
Set Model #	H18DTHU1XA		
Indoor Model #	H18DTHU1XAE		
Outdoor Model #	H18SBH22XPC		
Certification	ETL	AHRI	
	Energy Star	NEEP	



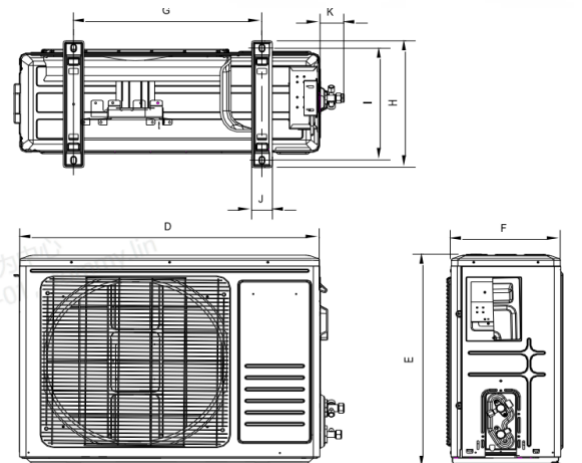
Indoor Unit Dimension



Model	Indoor Unit (inch / mm)			
H18DTHU1XAE	A	B	C	D
	36.2/920	7.9 /200	19.3 /490	17.7 /450
	E	F	G	H
	1.8 /45	28.7 /730	0.7 /17	5.5 /140

Outdoor Unit Dimension

Model	Outdoor Unit (inch / mm)			
H18SBH22XPC	D	E	F	G
	34.0/864	27.5/699	12.0/305	23.1/586
	H	I	J	K
	14.9 /380	13.7/347.5	2.3/58.6	2.5/63



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SYSTEM PERFORMANCE DATA		
Power supply		
Power Supply		208/230V / 1Ph / 60Hz
Voltage Range (Min - Max)	V	165 - 265
Electrical		
Min. Circuit Ampacity - MCA	A	10
Max. FUSE Size	A	17
Connection Wiring		16AWG*4
Cooling at 95°F (35°C)		
Capacity	BTU/h	17,000
(Min - Max)		(6,000 ~ 19,400)
Rated Input Power	W	1450
Rated Current	A	6.4
SEER2 / EER2		21 / 11.7
Heating at 47°F (8.3°C)		
Capacity	BTU/h	18,000
(Min - Max)		(4,000 ~ 21,400)
Rated Input Power	W	1805
Rated Current	A	8.3
HSPF2 - 4 / 5 / COP		8.1 / 2.9
Heating at 17°F (-8.3°C)		
Capacity	BTU/h	11,000
Heating at 5°F (-15°C)		
Capacity	BTU/h	13,400
COP		1.78

REFRIGERANT PIPING DATA		
Refrigerant Type / Charged	oz	R454b/ 45.5
Pre-Charge Length Total	ft (m)	25 (7.5)
Additional Charge	oz/ft	0.22
Design Pressure	PSIG	600
Line Set Sized (Liquid - Gas)	in	1/4 - 3/8
Line Set Length (Min - Max)	ft (m)	16 ~ 65 (5 ~ 20)
Max. Pipe Elevation	ft (m)	49 (15)
Connection method		Flared
Throttle Type		Capillary

TEMPERATURE RANGE		
Indoor Cooling Range	°F (°C)	>=61 (16)
Indoor Heating Range	°F (°C)	<=88 (31)
Outdoor Cooling Range	°F (°C)	5 ~ 133 (-15 ~ 55)
Outdoor Heating Range	°F (°C)	-13 ~ 86 (-25 ~ 30)

INDOOR UNIT DATA		
Fan Motor Type		
Model		DC Motor with crossflow Fan
Brand		RD(AL)N50HU
Input		LT Motor
Speed	W	50
	r/min	1200
Performance		
Air Flow (Min - Max)	CFM	247 ~ 500
Sound Pressure (Min - Max)	dB(A)	33 ~ 48
Unit Data		
External Dimensions	in	36.2 × 7.9 × 19.3
(W × H × D)	mm	920 × 200 × 490
Package Dimensions	in	44.0 × 9.8 × 21.9
(W × H × D)	mm	1120 × 250 × 555
Weight (Net / Gross)	Lbs.(kgs)	39.7 / 46.3 (18 / 21)
Thermostat type		
		Wireless Remote Controller with Wi-Fi®

OUTDOOR UNIT DATA		
Compressor Type		
Brand & Model		Rotary, Inverter
Input		SANYO/ C-6RZ146H1DJ
RLA		1,000
		4.51
Motor Type		
Brand & Model		DC
Input		Broad-Ocean / ZW511B500037
Speed	W	85
	r/min	850
Performance		
Air Flow (Max)	CFM	1890
Sound Pressure Level	dB(A)	54
Unit Data		
External Dimensions	in	36.5 × 27.5 × 14.9
(W × H × D)	mm	927 × 699 × 380
Package Dimensions	in	37.8 × 28.8 × 16.9
(W × H × D)	mm	960 × 732 × 430
Weight (Net / Gross)	Lbs.(kgs)	86 / 93 (39 / 42.2)
Limited Warranty		
		5 Years Parts, 7 Years Compressor / 10 Years w/ Reg within 60 days *

General Features:

- Easy Installation
- Easy Maintenance
- Wireless Remote with LCD Display
- Turbo Cooling & Heating
- Extreme Cooling & Heating
- AI Algorithm Inverter Tech
- ECO Mode
- Self-diagnosis
- Healthy Filter
- Smart Wi-Fi & Voice Control
- Filter Reminder
- Auto Restart
- * Subject to local law

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Information Tables

Brand	TCL
Series	BREEZEIN
Ducting Configuration	Singlezone Non-Ducted, Wall Placement
AHRI Certificate #*	215570375
Outdoor Unit Model #*	H18SBH22XPC
Indoor Model #*	H18DTHU1XAE
Indoor Unit Type*	Mini-Splits
Furnace Model* #	
EER*	
SEER*	
HSPF (Region IV)*	
EER2*	11.7
SEER2*	21
HSPF2 (Region IV)*	8.1
HSPF2 (Region V)	6.98
ENERGY STAR V6.1	
ENERGY STAR V6.1 Cold Climate	
ENERGY STAR V5.0	
Federal Tax Credit Eligibility North	
Federal Tax Credit Eligibility South	
Capacity Maintenance (Rated 17°F/Rated 47°F)	62%
Capacity Maintenance (Rated 5°F/Rated 47°F)	74%
Capacity Maintenance (Max 5°F/Rated 47°F)	74%
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*	6,000	17,000	19,400
			kW	0.38	1.45	2.4
			COP	4.63	3.44	2.37
Cooling	82°F	80°F	Btu/h*	4,300	-	21,000
			kW	0.18	-	2
			COP	7	-	3.08
Heating	47°F	70°F	Btu/h*	4,000	18,000	21,400
			kW	0.3	1.8	2.3
			COP	3.91	2.93	2.73
Heating	17°F	70°F	Btu/h*	5,400	11,200	17,500
			kW	0.8	1.35	2.4
			COP	1.98	2.43	2.14
Heating	5°F	70°F	Btu/h*	6,000	13,400	13,400
			kW	1.08	2.22	2.22
			COP	1.63	1.77	1.77
Heating	-13°F	70°F	Btu/h*	6,500	-	9,000
			kW	1.4	-	1.8
			COP	1.36	-	1.47

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AHRI Cert #*: **215570375**

Outdoor Unit Model #*: **H18SBH22XPC**

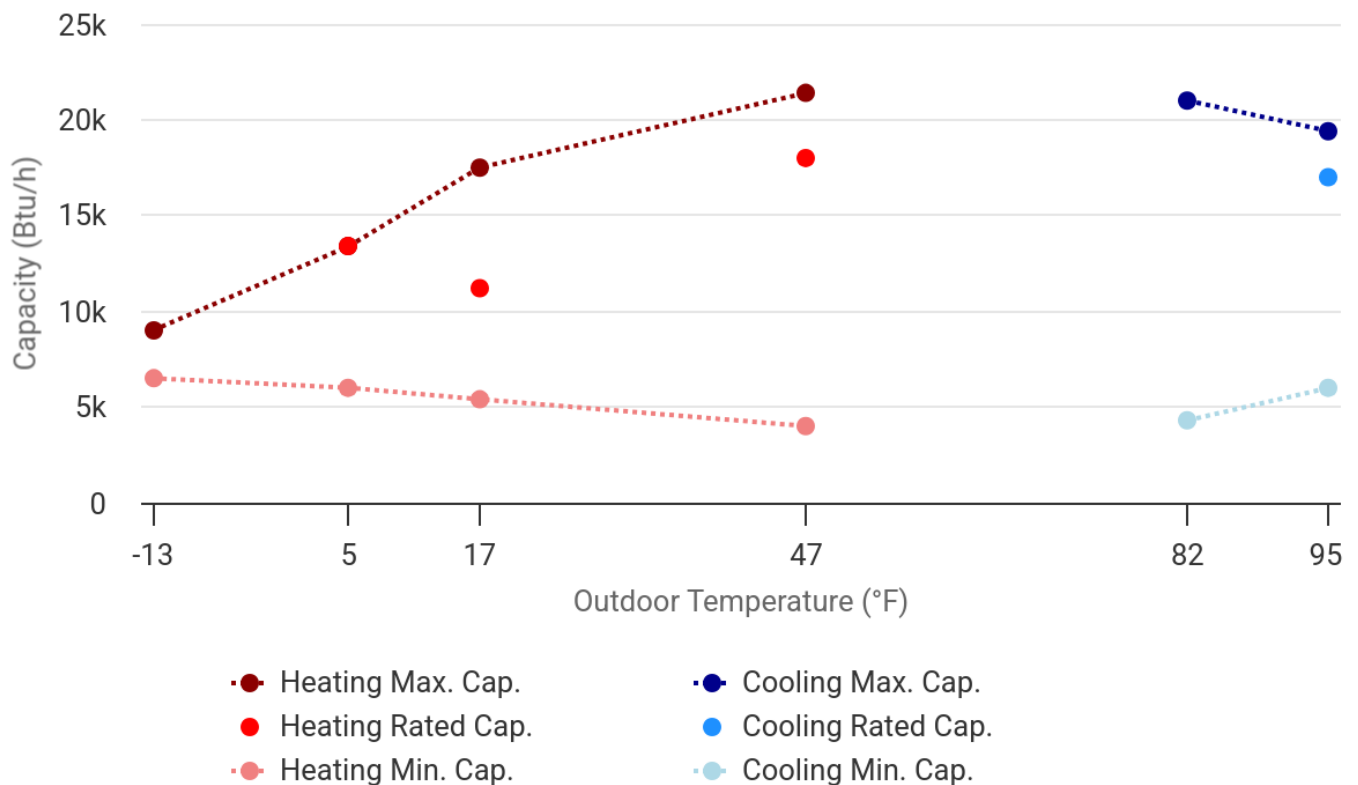
Indoor Model #*: **H18DTHU1XAE**

🔥 Maximum Heating Capacity (Btu/h) @5°F: **13,400**

🔥 Rated Heating Capacity (Btu/h) @47°F*: **18,000**

❄️ Rated Cooling Capacity (Btu/h) @95°F*: **17,000**

Heating/Cooling Capacity Graph



Highcharts.com