



TCL Light Commercial Series Slim Duct Heat Pump System – R454b

INSPIRE GREATNESS

SUBMITTAL DATA SHEET

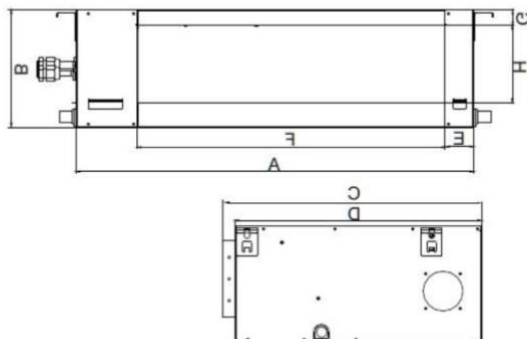
Job Name _____
 Buyer _____
 Submitted to _____
 Unit Designation _____

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

AHRI #	215570377		
Set Code			
Indoor Code			
Outdoor Code			
Set Model #	H24DTHU1XA		
Indoor Model #	H24DTHU1XAE		
Outdoor Model #	H24SBH20XPC		
Certification	ETL	AHRI	
	Energy Star	NEEP	



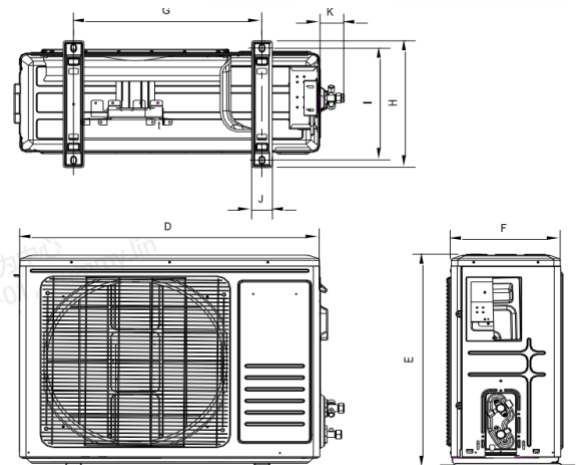
Indoor Unit Dimension



Model	Outdoor Unit (inch / mm)			
H24DTHU1XAE	A	B	C	D
	43.3/1100	7.9 /200	19.3 /490	17.7 /450
	E	F	G	H
	1.1 /27	36.6 /930	0.7 / 17	5.5 /140

Outdoor Unit Dimension

Model	Outdoor Unit (inch / mm)			
H24SBH22XPC	D	E	F	G
	36.1/916	31.6/803	13.9/353	23.9/607
	H	I	J	K
	16.6/421	15.4/390	2.5/63	2.4/62



TCL NORTH AMERICA

189 Technology Dr, Irvine, CA 92618

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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	22,000
(Min - Max)		(7,550 ~ 24,600)
Rated Input Power	W	1870
Rated Current	A	11.2
SEER2 / EER2		19 / 11.7
Heating at 47°F (8.3°C)		
Capacity	BTU/h	25,000
(Min - Max)		(8,700 ~ 28,500)
Rated Input Power	W	2030
Rated Current	A	13.3
HSPF2 -4 / 5 / COP		9.5 / 3.45
Heating at 17°F (-8.3°C)		
Capacity	BTU/h	15,100
Heating at 5°F (-15°C)		
Capacity	BTU/h	19,300
COP		2

REFRIGERANT PIPING DATA

Refrigerant Type / Charged	oz	R454b/ 55.03
Pre-Charge Length Total	ft (m)	25 (7.5)
Additional Charge	oz/ft	0.11
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)

General Features:

- Easy Installation
- Easy Maintenance
- Turbo Cooling & Heating
- Extreme Cooling & Heating
- AI Algorithm Inverter Tech
- ECO Mode

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INDOOR UNIT DATA

Fan Motor Type		DC Motor with crossflow Fan
Model		RD(AL)N50HU
Brand		LT Motor
Input	W	50
Speed	r/min	1,200
Performance		
Air Flow (Min - Max)	CFM	470 ~ 741
Sound Pressure (Min - Max)	dB(A)	34 ~ 51
Unit Data		
External Dimensions	in	43.3 × 7.9 × 19.3
(W × H × D)	mm	1100 × 200 × 490
Package Dimensions	in	50.7 × 9.6 × 22.2
(W × H × D)	mm	1290 × 245 × 565
Weight (Net / Gross)	Lbs.(kgs)	50.7 / 58.4 (23 / 26.5)
Thermostat type		Wireless Remote Controller with Wi-Fi®

OUTDOOR UNIT DATA

Compressor Type		Rotary, Inverter
Brand & Model		SANYO/C-6RZ210H1EBF
Input		1,400
RLA		5.61
Motor Type		DC
Brand & Model		Broad-Ocean/ZW511B500037
Input	W	85
Speed	r/min	850
Performance		
Air Flow (Max)	CFM	2,100
Sound Pressure Level	dB(A)	59
Unit Data		
External Dimensions	in	38.5 × 31.6 × 16.6
(W × H × D)	mm	978 × 803 × 421
Package Dimensions	in	40.2 × 32.9 × 18.9
(W × H × D)	mm	1022 × 835 × 480
Weight (Net / Gross)	Lbs.(kgs)	104.7 / 125.7 (47.5 / 57)
Limited Warranty		5 Years Parts, 7 Years Compressor / 10 Years w/ Reg within 60 days *

- Self-diagnosis
- Healthy Filter
- Smart Wi-Fi & Voice Control
- Filter Reminder
- Auto Restart
- * Subject local law

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Information Tables

Brand	TCL
Series	BREEZEIN
Ducting Configuration	Singlezone Non-Ducted, Wall Placement
AHRI Certificate #*	215570377
Outdoor Unit Model #*	H24SBH20XPC
Indoor Model #*	H24DTHU1XAE
Indoor Unit Type*	Mini-Splits
Furnace Model* #	
EER*	
SEER*	
HSPF (Region IV)*	
EER2*	11.7
SEER2*	19
HSPF2 (Region IV)*	9.5
HSPF2 (Region V)	8.19
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)	60%
Capacity Maintenance (Rated 5°F/Rated 47°F)	77%
Capacity Maintenance (Max 5°F/Rated 47°F)	77%
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*	7,550	22,000	24,600
			kW	0.64	1.87	2.6
			COP	3.46	3.45	2.77
Cooling	82°F	80°F	Btu/h*	5,800	-	26,000
			kW	0.3	-	2.5
			COP	5.67	-	3.05
Heating	47°F	70°F	Btu/h*	8,700	25,000	28,500
			kW	0.55	2.03	2.55
			COP	4.64	3.61	3.28
Heating	17°F	70°F	Btu/h*	9,700	15,100	22,000
			kW	1.4	1.6	3.45
			COP	2.03	2.77	1.87
Heating	5°F	70°F	Btu/h*	10,100	19,300	19,300
			kW	1.65	2.83	2.83
			COP	1.79	2	2
Heating	-13°F	70°F	Btu/h*	12,000	-	17,000
			kW	1.75	-	2.5
			COP	2.01	-	1.99

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AHRI Cert #*: **215570377**

Outdoor Unit Model #*: **H24SBH20XPC**

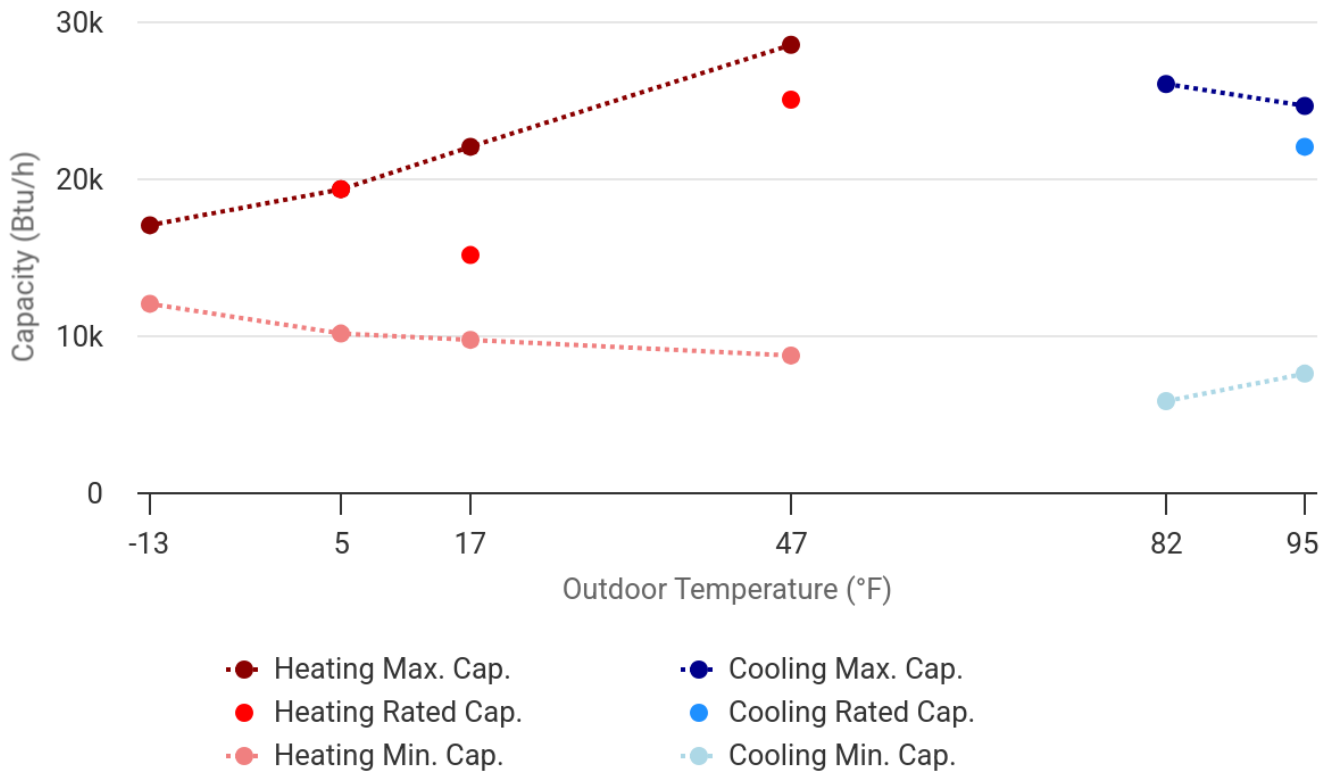
Indoor Model #*: **H24DTHU1XAE**

🔥 Maximum Heating Capacity (Btu/h) @5°F: **19,300**

🔥 Rated Heating Capacity (Btu/h) @47°F: **25,000**

❄️ Rated Cooling Capacity (Btu/h) @95°F: **22,000**

Heating/Cooling Capacity Graph



Highcharts.com