



TCL Light Commercial Series Slim Duct Heat Pump System – R454b

INSPIRE GREATNESS

SUBMITTAL DATA SHEET

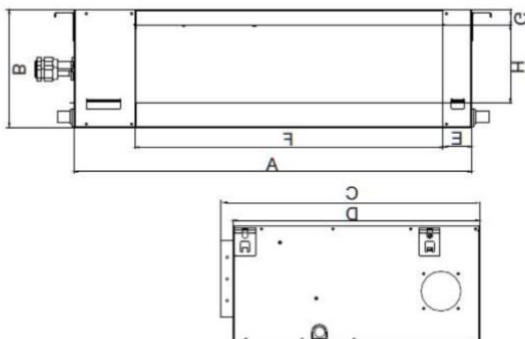
Job Name _____
 Buyer _____
 Submitted to _____
 Unit Designation _____

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

AHRI #	215570371		
Set Code			
Indoor Code			
Outdoor Code			
Set Model #	H09DTHU1XA		
Indoor Model #	H09DTHU1XAE		
Outdoor Model #	H09SBH23XPC		
Certification	ETL	AHRI	
	Energy Star	NEEP	



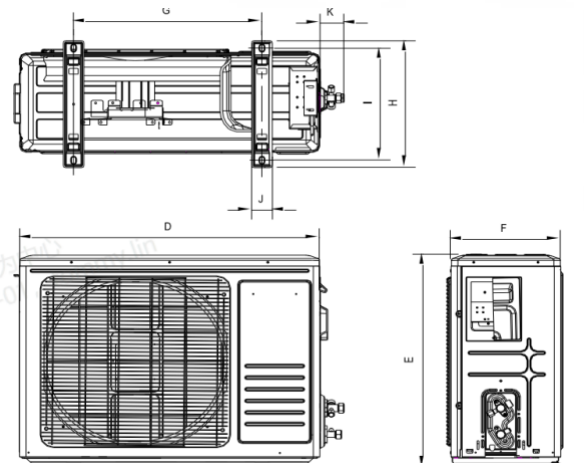
Indoor Unit Dimension



Model	Indoor Unit (inch / mm)			
H09DTHU1XAE	A	B	C	D
	27.6/700	7.9/200	19.3/490	17.7/450
	E	F	G	H
	1.8/45	20.1/510	0.7/17	5.5/140

Outdoor Unit Dimension

Model	Outdoor Unit (inch / mm)			
H09SBH23XPC	D	E	F	G
	29.8/758	21.6/549	9.9/252	17.0/433.8
	H	I	J	K
	12.0/305	10.9/278	1.9/48	2.0/52



TCL NORTH AMERICA

189 Technology Dr, Irvine, CA 92618

www.tcl.com



TCL Light Commerical Series Slim Duct Heat Pump System – R454b

INSPIRE GREATNESS

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	15
Connection Wiring		16AWG*4

Cooling at 95°F (35°C)

Capacity	BTU/h	9,500
(Min - Max)		(2,000 ~ 10,400)
Rated Input Power	W	750
Rated Current	A	4.9
SEER2 / EER2		20.5 / 12.5

Heating at 47°F (8.3°C)

Capacity	BTU/h	10,000
(Min - Max)		(2,500 ~ 12,300)
Rated Input Power	W	800
Rated Current	A	5.2
HSPF2 -4 / 5 / COP		9.5 / 3.7

Heating at 17°F (-8.3°C)

Capacity	BTU/h	6,100
----------	-------	-------

Heating at 5°F (-15°C)

Capacity	BTU/h	7600
COP		1.85

REFRIGERANT PIPING DATA

Refrigerant Type / Charged	oz	R454b/ 25.04
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 ~ 50 (5 ~ 15)
Max. Pipe Elevation	ft (m)	33 (10)
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
- High Efficiency
- Turbo Cooling & Heating
- Extreme Cooling & Heating
- AI Algorithm Inverter Tech
- ECO Mode

SUBMITTAL DATA SHEET

INDOOR UNIT DATA

Fan Motor Type

DC Motor with crossflow Fan

Model		RD(AL)N5OHU
Brand		LT Motor
Input	W	50
Speed	r/min	1200

Performance

Air Flow (Min - Max)	CFM	182 ~ 335
Sound Pressure (Min - Max)	dB(A)	28 ~ 42

Unit Data

External Dimensions	in	27.6 × 7.9 × 19.3
(W x H x D)	mm	700 × 200 × 490
Package Dimensions	in	35.4 × 9.8 × 21.9
(W x H x D)	mm	900 × 250 × 555
Weight (Net / Gross)	Lbs.(kgs)	33.1 / 40.8 (15 / 18.5)

Thermostat type

Wireless Remote Controller with Wi-Fi®

OUTDOOR UNIT DATA

Compressor Type

Rotary, Inverter

Brand & Model		GMCC/KSN98D31UEZA31
Input		770
RLA		4.72

Motor Type

DC

Brand & Model		Broad-Ocean / ZW465A500049L
Input	W	33
Speed	r/min	1,000

Performance

Air Flow (Max)	CFM	1170
Sound Pressure Level	dB(A)	51

Unit Data

External Dimensions	in	31.8 × 21.6 × 12
(W x H x D)	mm	810 × 549 × 305
Package Dimensions	in	33.5 × 23.6 × 14.0
(W x H x D)	mm	852 × 600 × 358
Weight (Net / Gross)	Lbs.(kgs)	52.7 / 59.7 (23.9 / 27.1)

5 Years Parts, 7 Years Compressor /

Limited Warranty

10 Years w/ Reg within 60 days *

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

TCL NORTH AMERICA

189 Technology Dr, Irvine, CA 92618

www.tcl.com



INSPIRE GREATNESS

TCL Light Commercial Series Slim Duct Heat Pump System – R454b

SUBMITTAL DATA SHEET

Information Tables

Brand	TCL
Series	BREEZEIN
Ducting Configuration	Singlezone Non-Ducted, Wall Placement
AHRI Certificate #*	215570371
Outdoor Unit Model #*	H09SBH23XPC
Indoor Model #*	H09DTHU1XAE
Indoor Unit Type*	Mini-Splits
Furnace Model* #	
EER*	
SEER*	
HSPF (Region IV)*	
EER2*	12.5
SEER2*	20.5
HSPF2 (Region IV)*	9.5
HSPF2 (Region V)	8.2
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)	61%
Capacity Maintenance (Rated 5°F/Rated 47°F)	76%
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*	2,000	9,500	10,400
			kW	0.13	0.75	1.25
			COP	4.51	3.71	2.44
Cooling	82°F	80°F	Btu/h*	2,800	-	12,100
			kW	0.11	-	1.1
			COP	7.46	-	3.22
Heating	47°F	70°F	Btu/h*	2,500	10,000	12,300
			kW	0.18	0.8	1.05
			COP	4.07	3.66	3.43
Heating	17°F	70°F	Btu/h*	4,000	6,100	9,100
			kW	0.46	0.66	1.2
			COP	2.55	2.71	2.22
Heating	5°F	70°F	Btu/h*	3,400	7,600	7,600
			kW	0.5	1.2	1.2
			COP	1.99	1.86	1.86
Heating	-13°F	70°F	Btu/h*	3,000	-	4,580
			kW	0.6	-	1.15
			COP	1.47	-	1.17

TCL NORTH AMERICA

189 Technology Dr, Irvine, CA 92618

www.tcl.com



INSPIRE GREATNESS

SUBMITTAL DATA SHEET

AHRI Cert #: **215570371**

Outdoor Unit Model #: **H09SBH23XPC**

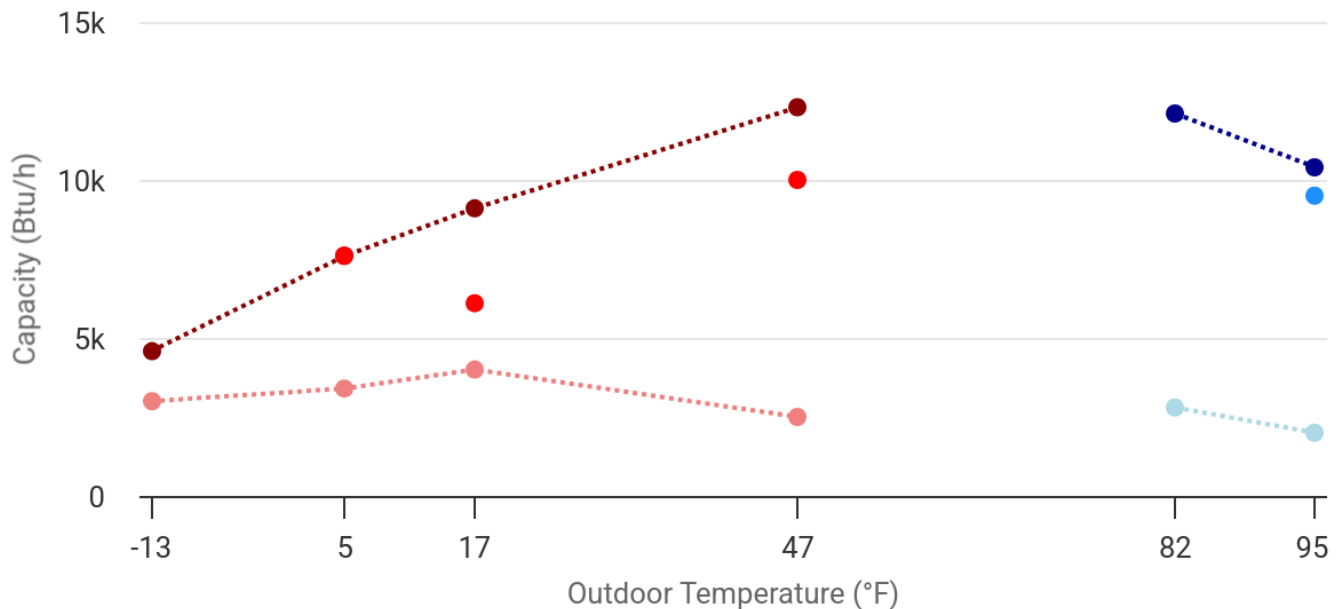
Indoor Model #: **H09DTHU1XAE**

🔥 Maximum Heating Capacity (Btu/h) @5°F: **7,600**

🔥 Rated Heating Capacity (Btu/h) @47°F+: **10,000**

❄️ Rated Cooling Capacity (Btu/h) @95°F+: **9,500**

Heating/Cooling Capacity Graph



- Heating Max. Cap.
- Heating Rated Cap.
- Heating Min. Cap.
- Cooling Max. Cap.
- Cooling Rated Cap.
- Cooling Min. Cap.

Highcharts.com