

**Submittal Data: LIVS09HP230V1A      9,000 BTU/H (208/230V) Wall Mounted Heat Pump System**

Job Name	Location	Date
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Purchaser	Engineer
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Submitted To	For	<input type="checkbox"/> Reference	<input type="checkbox"/> Approval	<input type="checkbox"/> Construction
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Unit Designation	Schedule No.
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- GENERAL FEATURES**
- High Efficiency DC Inverter Technology
  - Compact and Quiet Design
  - Vertical Swing Louver
  - Wireless Remote with LCD Display
  - Wired Tether Controller ( Sold Separately)
  - Low Ambient Cool to 0 deg F
  - Blue Fin Condenser Coil
  - 5 year Limited Parts Warranty
  - 7 year Limited Compressor Warranty



System Ratings
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<b>Cooling</b>		
Rated Capacity		9,000 BTU/H
Capacity Range		3,100-9,600 BTU/H
Power Input (Max)		900 W
SEER		16.0
EER		10.0
<b>Heating at 47° F</b>		
Rated Capacity		9,500 BTU/H
Capacity Range		3,100-12,000 BTU/H
Power Input (Max)		800 W
HSPF		9.0
COP		3.5
<b>Heating at 17° F</b>		
Rated Capacity		5,600 BTU/H
<b>Operating Range</b>		
Cooling	(Max)	115°F (46 C)
	(Min)	0°F (-18 C)
Heating	(Max)	75°F (24 C)
	(Min)	-4°F (-20 C)

Indoor Unit Data
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<b>Fan Motor</b>	<b>Type</b>	<b>Cross-Flow</b>
	Output Power	20 W
	FLA	0.2 A
<b>Airflow</b>		
Cooling	Wet (Lo/Hi)	171/318 CFM
Heating	Dry (Lo/Hi)	171/318 CFM
<b>Sound Pressure Level</b>		
Cooling	(Min/Max)	28/43 db(A)
Heating	(Min/Max)	28/43 db(A)
<b>Dehumidification</b>		1.69 pt/hr

Refrigerant Piping Data
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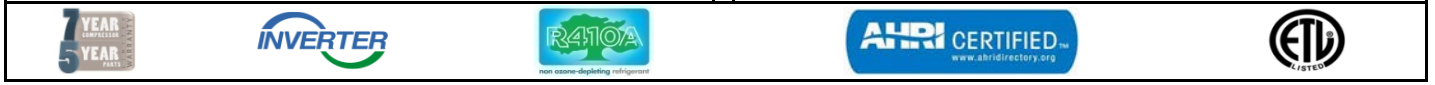
Gas Pipe Size (OD)	3/8-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	24.7 oz
Additional Charge	0.2 oz
Pre-Charge Length	25-ft
MAX Refrigerant Pipe Length	49-ft
MIN Refrigerant Pipe Length	10-ft
MAX Refrigerant Pipe Elevation	33-ft

Outdoor Unit Data
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<b>Compressor</b>	<b>Type</b>	<b>DC Inverter Driven Rotary</b>
	RLA	6.6 A
<b>Refrigerant Type</b>		
R410A		
<b>Fan Motor</b>	<b>Output Power</b>	30 W
	FLA	0.37 A
<b>Sound Pressure</b>		
Cooling/Heating		52/52 db(A)

Electrical Data
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<b>Power Supply</b>		
Normal Operational Voltage		208/230 V, 1 Phase, 60 Hz
Voltage Range		187 - 253 V
MCA		9.0 A
MOCP/Breaker Size		15 A
Main Power Wire Size		14-2 AWG



**COOLING PERFORMANCE (BtuH)\***

Outdoor Ambient DB	Indoor Ambient Temperature							
	68F DB (20C)		73F DB (23C)		80F DB (27C)		82F DB (28C)	
	57F WB (14C)		61F WB (16C)		67F WB (19C)		68F WB (20C)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC
0°F	5,675	4,451	5,996	4,700	6,723	5,274	6,783	5,320
5°F	5,748	4,508	6,073	4,761	6,854	5,375	6,914	5,423
14°F	5,896	4,624	6,226	4,883	7,115	5,579	7,178	5,629
23°F	6,298	4,940	6,736	5,284	7,719	6,054	7,787	6,108
32°F	7,637	5,990	8,169	6,407	8,947	7,015	9,026	7,077
41°F	8,650	6,784	9,190	7,207	9,821	7,703	9,908	7,771
50°F	8,547	6,705	9,091	7,131	9,731	7,633	9,817	7,700
59°F	8,337	6,538	8,878	6,963	9,641	7,563	9,726	7,630
68°F	8,127	6,373	8,668	6,799	9,461	7,420	9,545	7,486
77°F	7,920	6,212	8,457	6,632	9,280	7,280	9,363	7,344
86°F	7,692	6,033	8,229	6,452	9,010	7,067	9,090	7,130
95°F	7,505	5,887	8,040	6,306	8,893	6,976	8,972	7,038
104°F	7,319	5,740	7,854	6,160	8,776	6,884	8,854	6,945
113°F	6,944	5,445	7,478	5,865	8,403	6,589	8,478	6,648
115°F	6,923	5,429	7,448	5,842	8,371	6,564	8,445	6,622

**HEATING PERFORMANCE (BtuH)\***

Outdoor Ambient DB	Indoor Ambient Temperature							
	68F DB (20C)		73F DB (23C)		80F DB (27C)		86F DB (30C)	
	57F WB (14C)		61F WB (16C)		67F WB (19C)		72F WB (22C)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-4°F	4,985	4,985	4,937	4,937	4,854	4,854	4,658	4,658
0°F	5,400	5,400	5,350	5,350	5,261	5,261	5,044	5,044
6°F	5,697	5,697	5,644	5,644	5,549	5,549	5,320	5,320
10°F	5,935	5,935	5,878	5,878	5,780	5,780	5,543	5,543
16°F	6,113	6,113	6,056	6,056	5,955	5,955	5,709	5,709
19°F	6,234	6,234	6,172	6,172	6,071	6,071	5,819	5,819
24°F	6,926	6,926	6,867	6,867	6,763	6,763	6,513	6,513
32°F	7,734	7,734	7,674	7,674	7,570	7,570	7,321	7,321
41°F	8,657	8,657	8,598	8,598	8,497	8,497	8,244	8,244
43°F	8,888	8,888	8,829	8,829	8,725	8,725	8,476	8,476
47°F	9,693	9,693	9,595	9,595	9,429	9,429	9,019	9,019
53°F	9,791	9,791	9,690	9,690	9,521	9,521	9,108	9,108
59°F	10,014	10,014	9,913	9,913	9,738	9,738	9,316	9,316
64°F	10,227	10,227	10,123	10,123	9,945	9,945	9,515	9,515
70°F	10,420	10,420	10,313	10,313	10,135	10,135	9,696	9,696
75°F	10,566	10,566	10,459	10,459	10,275	10,275	9,830	9,830

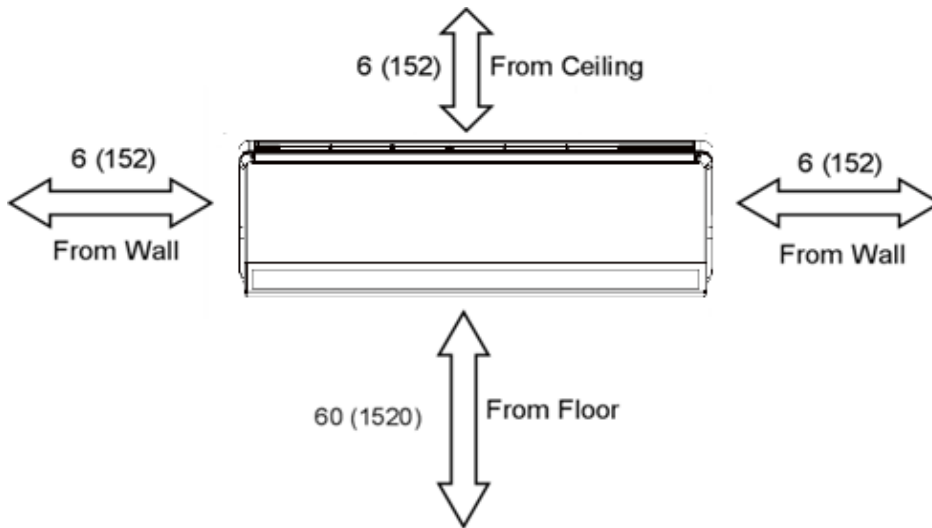
\* Maximum system capacity

TC- Total Capacity ( BtuH)  
SHC- Sensible Capacity (BtuH)

MINIMUM SPACING REQUIREMENTS

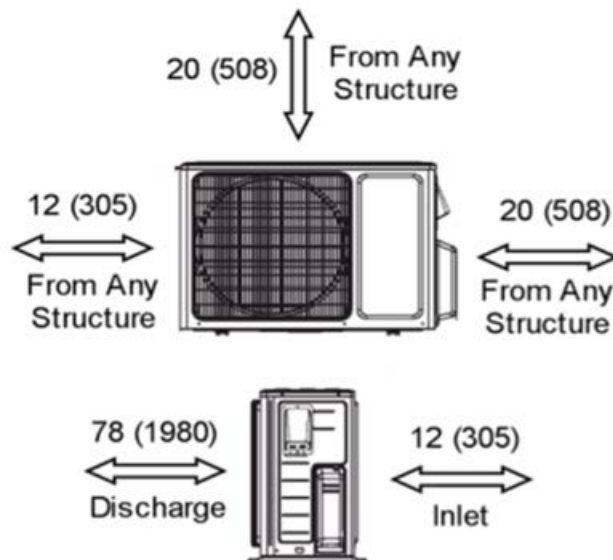
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR



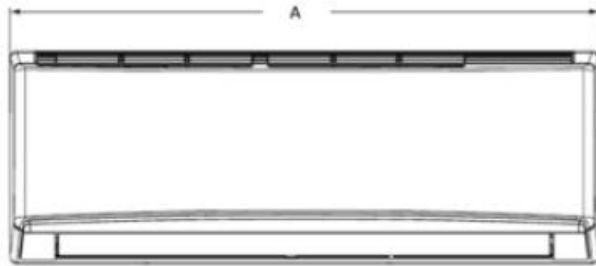
## DIMENSIONAL SPECIFICATIONS

LIVS09HP230V1A

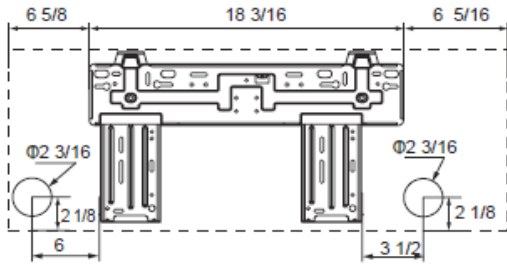
### INDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS09HP230V1AH



Dimensions	
A	31.1
B	10.8
C	7.9



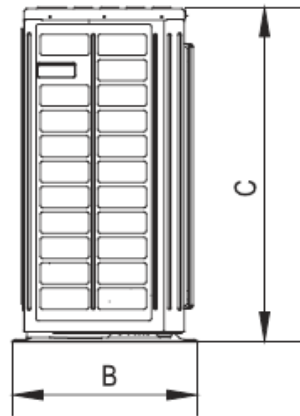
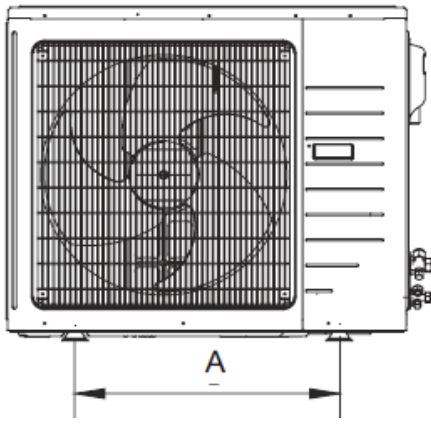
Weight (Net/Gross) 19.8/24.3 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	3/8-in OD Flared
Drain Connector	5/8-in OD

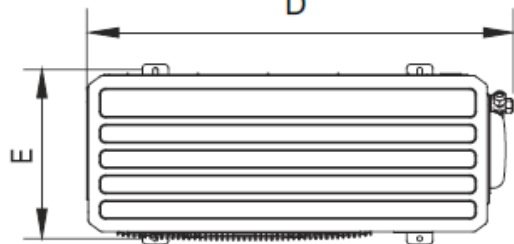
### OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS09HP230V1AO



Dimensions	
A	20.0
B	12.6
C	21.3
D	33.6
E	11.3



Weight (Net/Gross) 66.2/71.7 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	3/8-in OD Flared

**Notes:**

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Bare Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.



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