

Submittal Data: LIVS09HP115V1A 9,000 BTU/H (115V) 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

Cooling		
Rated Capacity		9,000 BTU/H
Capacity Range		2,764-10,918 BTU/H
Power Input (Max)		895 W
SEER		16.0
EER		9.6
Heating at 47° F		
Rated Capacity		9,600 BTU/H
Capacity Range		2,081-12,283 BTU/H
Power Input (Max)		853 W
HSPF		9.0
COP		3.3
Heating at 17° F		
Rated Capacity		5,400 BTU/H
Operating Range		
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

Fan Motor	Type	Cross-Flow
	Output Power	20 W
	FLA	0.2 A
Airflow		
Cooling	Wet (Lo/Hi)	171/318 CFM
Heating	Dry (Lo/Hi)	171/318 CFM
Sound Pressure Level		
Cooling	(Min/Max)	28/42 db(A)
Heating	(Min/Max)	28/42 db(A)
Dehumidification		1.7 pt/hr

Refrigerant Piping Data

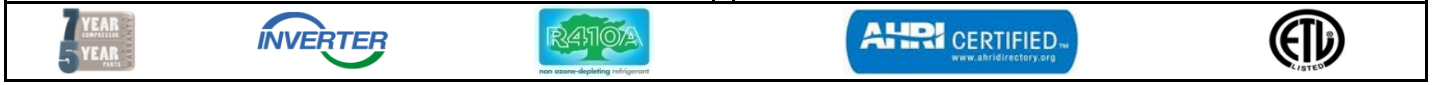
Gas Pipe Size (OD)	3/8-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	24.7 oz
Additional Charge	0.2 oz
Pre-Charge Length	25-ft
MAX Refrigerant Pipe Length	49-ft
MIN Refrigerant Pipe Length	10-ft
MAX Refrigerant Pipe Elevation	33-ft

Outdoor Unit Data

Compressor	Type	DC Inverter Driven Rotary
	RLA	12.6 A
Refrigerant Type		R410A
Fan Motor	Output Power	30 W
	FLA	0.24 A
Sound Pressure		
Cooling/Heating		53/53 db(A)

Electrical Data

Power Supply	
Normal Operational Voltage	115 V, 1 Phase, 60 Hz
Voltage Range	103 - 127 V
MCA	17.0 A
MOCP/Breaker Size	25 A
Main Power Wire Size	12-2 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	5,669	4,446	5,990	4,695	6,716	5,268	6,939	5,443
5°F	5,742	4,503	6,066	4,756	6,846	5,369	7,074	5,548
14°F	5,889	4,619	6,219	4,877	7,107	5,573	7,344	5,759
23°F	6,291	4,935	6,729	5,278	7,710	6,047	7,967	6,249
32°F	7,629	5,983	8,160	6,400	8,937	7,007	9,235	7,241
41°F	8,640	6,776	9,180	7,199	9,810	7,694	10,137	7,951
50°F	8,538	6,697	9,081	7,123	9,720	7,624	10,044	7,878
59°F	8,328	6,530	8,868	6,956	9,630	7,554	9,951	7,806
68°F	8,118	6,366	8,658	6,792	9,450	7,412	9,765	7,659
77°F	7,911	6,205	8,448	6,624	9,270	7,272	9,579	7,514
86°F	7,683	6,026	8,220	6,445	9,000	7,059	9,300	7,294
95°F	7,497	5,880	8,031	6,299	8,883	6,968	9,179	7,200
104°F	7,311	5,734	7,845	6,153	8,766	6,877	9,058	7,106
113°F	6,936	5,439	7,470	5,859	8,394	6,582	8,674	6,801
115°F	6,915	5,423	7,440	5,835	8,361	6,557	8,640	6,775

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	5,037	5,037	4,989	4,989	4,905	4,905	4,707	4,707
0°F	5,457	5,457	5,406	5,406	5,316	5,316	5,097	5,097
6°F	5,757	5,757	5,703	5,703	5,607	5,607	5,376	5,376
10°F	5,997	5,997	5,940	5,940	5,841	5,841	5,601	5,601
16°F	6,177	6,177	6,120	6,120	6,018	6,018	5,769	5,769
19°F	6,300	6,300	6,237	6,237	6,135	6,135	5,880	5,880
24°F	6,999	6,999	6,939	6,939	6,834	6,834	6,582	6,582
32°F	7,815	7,815	7,755	7,755	7,650	7,650	7,398	7,398
41°F	8,748	8,748	8,688	8,688	8,586	8,586	8,331	8,331
43°F	8,982	8,982	8,922	8,922	8,817	8,817	8,565	8,565
47°F	9,795	9,795	9,696	9,696	9,528	9,528	9,114	9,114
53°F	9,894	9,894	9,792	9,792	9,621	9,621	9,204	9,204
59°F	10,119	10,119	10,017	10,017	9,840	9,840	9,414	9,414
64°F	10,335	10,335	10,230	10,230	10,050	10,050	9,615	9,615
70°F	10,530	10,530	10,422	10,422	10,242	10,242	9,798	9,798
75°F	10,677	10,677	10,569	10,569	10,383	10,383	9,933	9,933

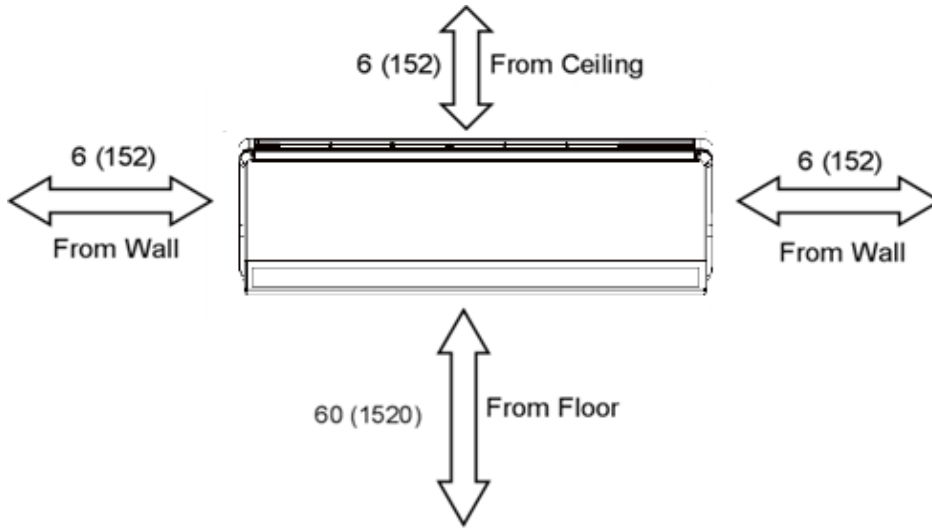
* Maximum system capacity

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

MINIMUM SPACING REQUIREMENTS

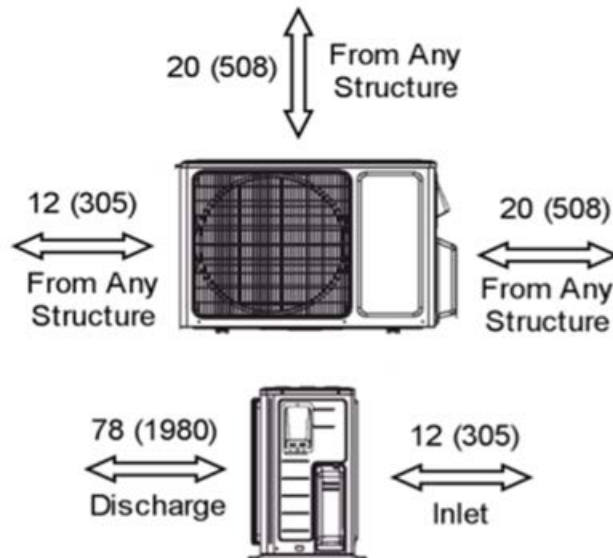
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR



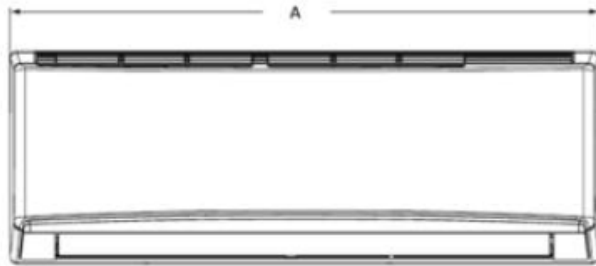
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LIVS09HP115V1A

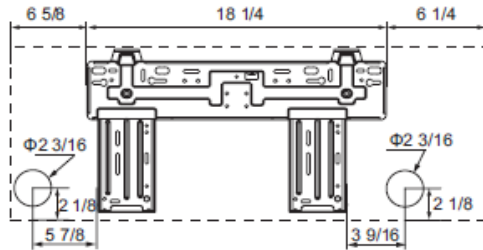
INDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS09HP115V1AH



Dimensions	
A	31.1
B	10.8
C	7.9



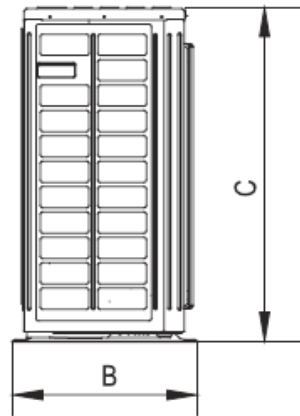
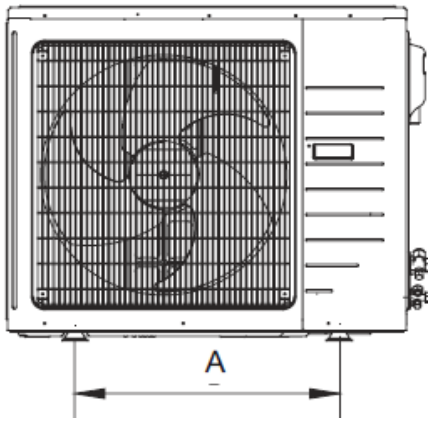
Weight (Net/Gross) 19.8/24.3 lbs

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

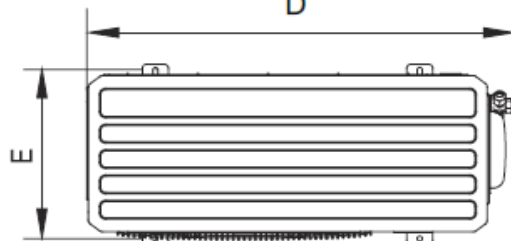
OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS09HP115V1AO



Dimensions	
A	21.3
B	12.6
C	21.3
D	33.4
E	11.3



Weight (Net/Gross) 62.8/68.4 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.



Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All rights reserved.

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

Cooling	
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
Heating at 47° F	
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
Heating at 17° F	
Rated Capacity	5,600 BTU/H
Operating Range	
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

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

Refrigerant Piping Data

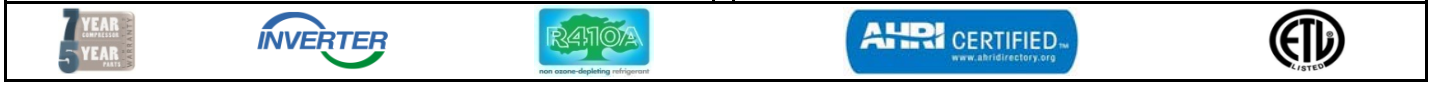
Gas Pipe Size (OD)	3/8-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	24.7 oz
Additional Charge	0.2 oz
Pre-Charge Length	25-ft
MAX Refrigerant Pipe Length	49-ft
MIN Refrigerant Pipe Length	10-ft
MAX Refrigerant Pipe Elevation	33-ft

Outdoor Unit Data

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

Electrical Data

Power Supply	
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

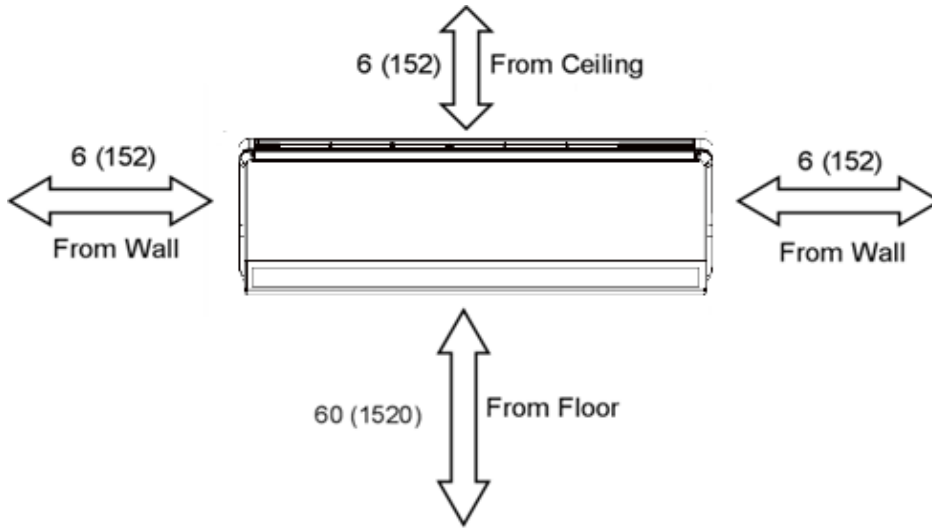
* Maximum system capacity

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

MINIMUM SPACING REQUIREMENTS

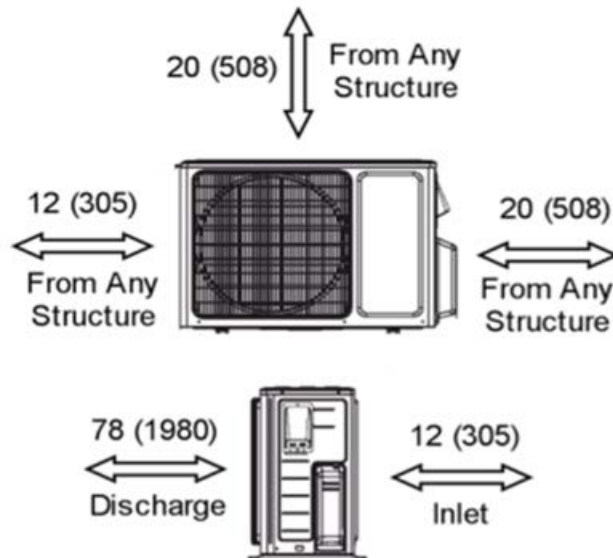
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR



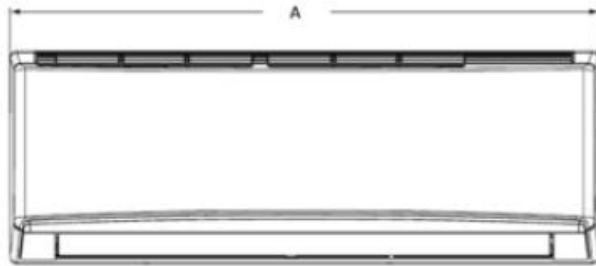
DIMENSIONAL SPECIFICATIONS

LIVS09HP230V1A

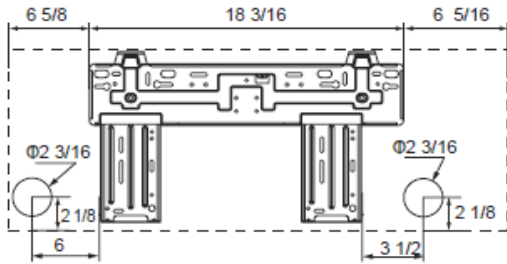
INDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS09HP230V1AH



Dimensions	
A	31.1
B	10.8
C	7.9



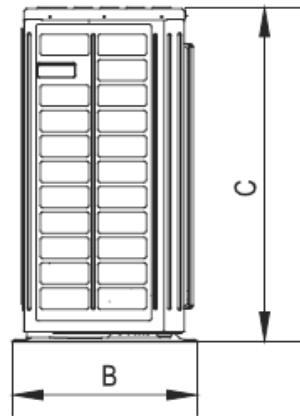
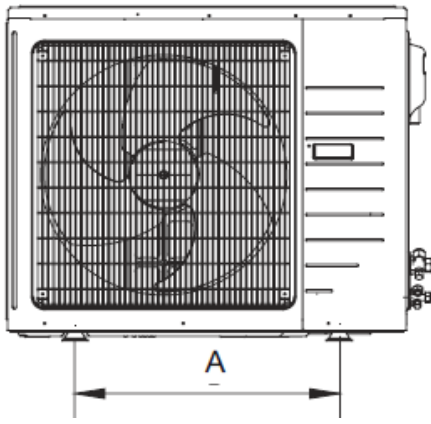
Weight (Net/Gross) 19.8/24.3 lbs

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

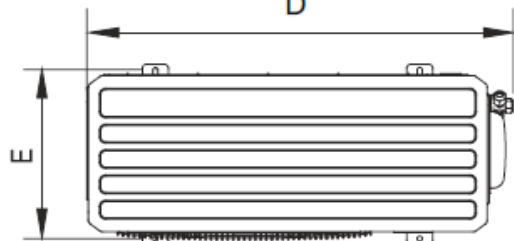
OUTDOOR UNIT DIMENSIONS

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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Submittal Data: LIVS12HP115V1A 12,000 BTU/H (115V) 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
 - XK41 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

Cooling		
Rated Capacity		12,000 BTU/H
Capacity Range		3,753-12,500 BTU/H
Power Input (Max)		1,193 W
SEER		16.0
EER		10.6
Heating at 47° F		
Rated Capacity		13,000 BTU/H
Capacity Range		3,412-15,013 BTU/H
Power Input (Max)		1,250 W
HSPF		9.0
COP		3.1
Heating at 17° F		
Rated Capacity		7,600 BTU/H
Operating Range		
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

Fan Motor	Type	Cross-Flow
	Output Power	20 W
	FLA	0.3 A
Airflow		
Cooling	Wet (Lo/Hi)	194/400 CFM
Heating	Dry (Lo/Hi)	194/400 CFM
Sound Pressure Level		
Cooling	(Min/Max)	29/43 db(A)
Heating	(Min/Max)	29/43 db(A)
Dehumidification		2.96 pt/hr

Refrigerant Piping Data

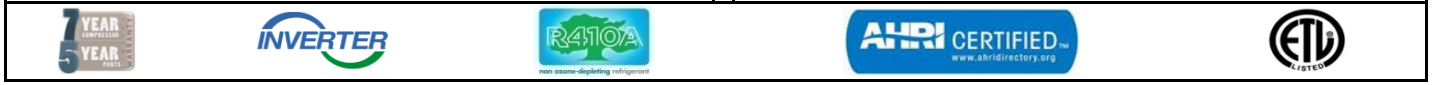
Gas Pipe Size (OD)	3/8-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	31.8 oz
Additional Charge	0.2 oz
Pre-Charge Length	25-ft
MAX Refrigerant Pipe Length	66-ft
MIN Refrigerant Pipe Length	10-ft
MAX Refrigerant Pipe Elevation	33-ft

Outdoor Unit Data

Compressor	Type	DC Inverter Driven Rotary
	RLA	15.2 A
Refrigerant Type		R410A
Fan Motor	Output Power	30 W
	FLA	0.23 A
Sound Pressure		
Cooling/Heating		53/53 db(A)

Electrical Data

Power Supply		
Normal Operational Voltage		115 V, 1 Phase, 60 Hz
Voltage Range		103 - 127 V
MCA		20.0 A
MOCP/Breaker Size		30 A
Main Power Wire Size		10-2 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	6,955	5,800	7,295	6,070	9,265	7,395	8,030	6,590
5°F	7,087	5,903	7,423	6,170	9,327	7,530	8,163	6,693
14°F	7,350	6,110	7,680	6,370	9,450	7,800	8,430	6,900
23°F	7,900	6,540	8,340	6,890	10,360	8,230	9,350	7,620
32°F	8,240	6,800	8,700	7,170	10,540	8,510	9,780	7,960
41°F	8,580	7,060	9,060	7,450	10,850	9,040	10,210	8,300
50°F	8,920	7,320	9,420	7,730	10,900	9,260	10,640	8,640
59°F	9,240	7,590	9,770	8,010	10,950	9,540	11,070	8,960
68°F	10,250	8,390	10,790	8,810	11,010	9,610	11,840	9,570
77°F	10,150	8,310	10,690	8,730	11,260	9,750	11,710	9,460
86°F	9,730	7,980	10,270	8,400	11,560	10,010	11,440	9,250
95°F	9,290	7,640	9,830	8,060	12,000	9,420	10,940	9,020
104°F	8,920	7,340	9,460	7,760	11,860	9,390	10,760	8,720
113°F	8,550	7,050	9,080	7,470	10,910	9,180	10,390	8,430
115°F	8,529	7,033	9,050	7,447	10,842	9,154	10,357	8,403

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	7,090	7,090	7,120	7,120	7,190	7,190	7,120	7,120
0°F	7,130	7,130	7,280	7,280	7,260	7,260	7,210	7,210
6°F	7,160	7,160	7,220	7,220	7,310	7,310	7,120	7,120
10°F	7,950	7,950	8,130	8,130	8,240	8,240	8,090	8,090
16°F	8,560	8,560	9,060	9,060	9,210	9,210	8,290	8,290
19°F	9,250	9,250	9,580	9,580	9,350	9,350	9,040	9,040
24°F	9,830	9,830	10,030	10,030	10,800	10,800	10,340	10,340
32°F	11,040	11,040	11,520	11,520	11,910	11,910	11,260	11,260
41°F	11,230	11,230	11,980	11,980	12,010	12,010	11,393	11,393
43°F	12,000	12,000	12,370	12,370	12,560	12,560	11,560	11,560
47°F	12,780	12,780	13,060	13,060	13,640	13,640	12,110	12,110
53°F	13,020	13,020	13,290	13,290	13,680	13,680	12,120	12,120
59°F	12,370	12,370	12,680	12,680	12,950	12,950	12,230	12,230
64°F	12,010	12,010	12,320	12,320	12,563	12,563	11,980	11,980
70°F	12,110	12,110	12,360	12,360	12,803	12,803	11,870	11,870
75°F	12,350	12,350	12,960	12,960	12,780	12,780	11,590	11,590

* Maximum system capacity

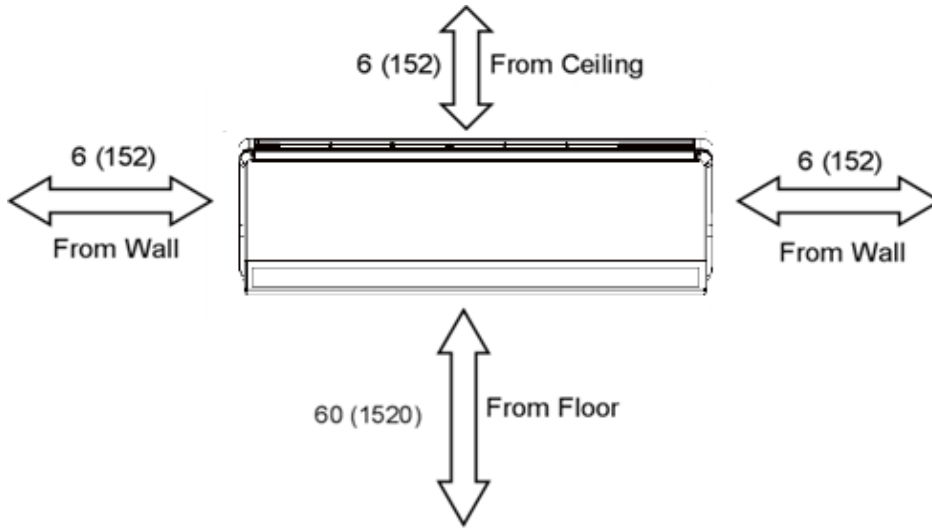
TC- Total Capacity (BtuH)
 SHC- Sensible Capacity (BtuH)



MINIMUM SPACING REQUIREMENTS

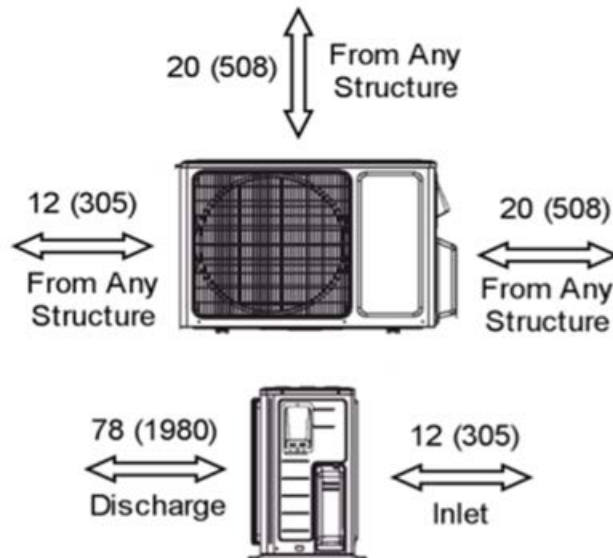
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR



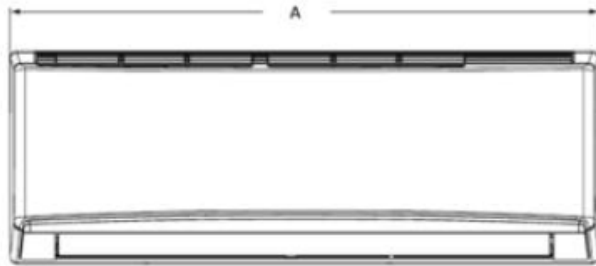
DIMENSIONAL SPECIFICATIONS

LIVS12HP115V1A

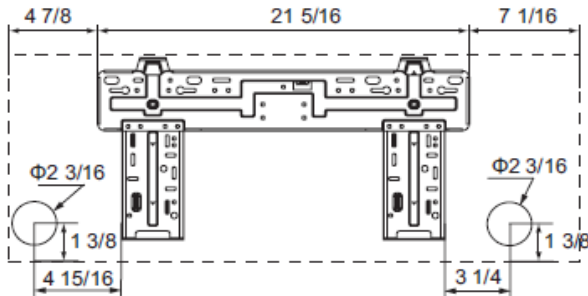
INDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS12HP115V1AH



Dimensions	
A	33.3
B	11.4
C	8.3



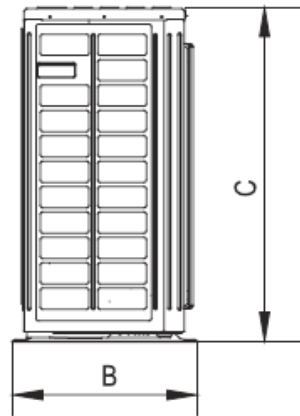
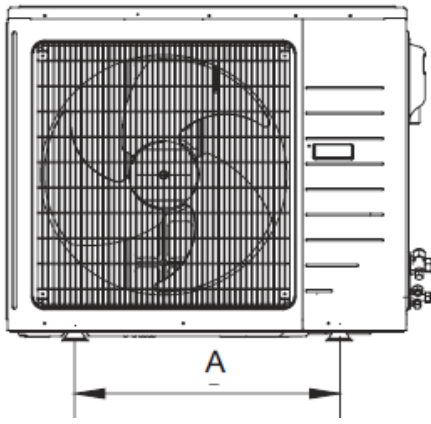
Weight (Net/Gross) 22.1/27.6 lbs

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

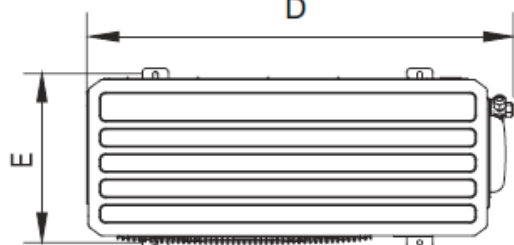
OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS12HP115V1AO



Dimensions	
A	21.3
B	12.6
C	21.3
D	33.4
E	11.3



Weight (Net/Gross) 67.3/72.8 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.



Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All rights reserved.

Submittal Data: LIVS12HP230V1A 12,000 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
 - XK-41 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

Cooling	
Rated Capacity	12,000 BTU/H
Capacity Range	3,753-12,500 BTU/H
Power Input (Max)	1,300 W
SEER	16.0
EER	9.2
Heating at 47° F	
Rated Capacity	13,000 BTU/H
Capacity Range	3,924-14,000 BTU/H
Power Input (Max)	1,250 W
HSPF	9.25
COP	3.1
Heating at 17° F	
Rated Capacity	8,100 BTU/H
Operating Range	
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

Fan Motor	Type	Cross-Flow
	Output Power	20 W
	FLA	0.3 A
Airflow		
Cooling	Wet (Lo/Hi)	194/400 CFM
Heating	Dry (Lo/Hi)	194/400 CFM
Sound Pressure Level		
Cooling	(Min/Max)	29/45 db(A)
Heating	(Min/Max)	29/45 db(A)
Dehumidification		2.96 pt/hr

Refrigerant Piping Data

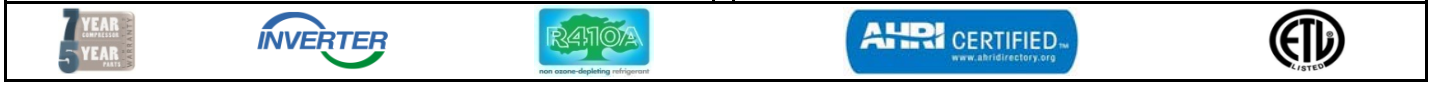
Gas Pipe Size (OD)	3/8-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	30.0 oz
Additional Charge	0.2 oz
Pre-Charge Length	25-ft
MAX Refrigerant Pipe Length	66-ft
MIN Refrigerant Pipe Length	10-ft
MAX Refrigerant Pipe Elevation	33-ft

Outdoor Unit Data

Compressor	Type	DC Inverter Driven Rotary
	RLA	6.6 A
Refrigerant Type		R410A
Fan Motor	Output Power	30 W
	FLA	0.37 A
Sound Pressure		
Cooling/Heating		53/53 db(A)

Electrical Data

Power Supply	
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	7,558	5,928	7,986	6,260	8,954	7,024	9,327	7,316
5°F	7,656	6,005	8,088	6,341	9,128	7,159	9,508	7,458
14°F	7,852	6,159	8,292	6,503	9,476	7,431	9,871	7,740
23°F	8,388	6,580	8,972	7,038	10,280	8,063	10,708	8,399
32°F	10,172	7,978	10,880	8,533	11,916	9,343	12,413	9,732
41°F	11,520	9,035	12,240	9,598	13,080	10,259	13,625	10,686
50°F	11,384	8,930	12,108	9,497	12,960	10,166	13,500	10,589
59°F	11,104	8,707	11,824	9,274	12,840	10,072	13,375	10,492
68°F	10,824	8,488	11,544	9,055	12,600	9,882	13,125	10,294
77°F	10,548	8,273	11,264	8,833	12,360	9,696	12,875	10,100
86°F	10,244	8,034	10,960	8,594	12,000	9,412	12,500	9,804
95°F	9,996	7,840	10,708	8,399	11,844	9,290	12,338	9,678
104°F	9,748	7,645	10,460	8,205	11,688	9,169	12,175	9,551
113°F	9,248	7,252	9,960	7,812	11,192	8,776	11,658	9,142
115°F	9,220	7,231	9,920	7,780	11,148	8,742	11,613	9,106

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	6,821	6,821	6,756	6,756	6,642	6,642	6,374	6,374
0°F	7,390	7,390	7,321	7,321	7,199	7,199	6,902	6,902
6°F	7,796	7,796	7,723	7,723	7,593	7,593	7,280	7,280
10°F	8,121	8,121	8,044	8,044	7,910	7,910	7,585	7,585
16°F	8,365	8,365	8,288	8,288	8,149	8,149	7,812	7,812
19°F	8,531	8,531	8,446	8,446	8,308	8,308	7,963	7,963
24°F	9,478	9,478	9,397	9,397	9,254	9,254	8,913	8,913
32°F	10,583	10,583	10,502	10,502	10,359	10,359	10,018	10,018
41°F	11,846	11,846	11,765	11,765	11,627	11,627	11,282	11,282
43°F	12,163	12,163	12,082	12,082	11,940	11,940	11,598	11,598
47°F	13,264	13,264	13,130	13,130	12,903	12,903	12,342	12,342
53°F	13,398	13,398	13,260	13,260	13,028	13,028	12,464	12,464
59°F	13,703	13,703	13,565	13,565	13,325	13,325	12,748	12,748
64°F	13,995	13,995	13,853	13,853	13,609	13,609	13,020	13,020
70°F	14,259	14,259	14,113	14,113	13,869	13,869	13,268	13,268
75°F	14,458	14,458	14,312	14,312	14,060	14,060	13,451	13,451

* Maximum system capacity

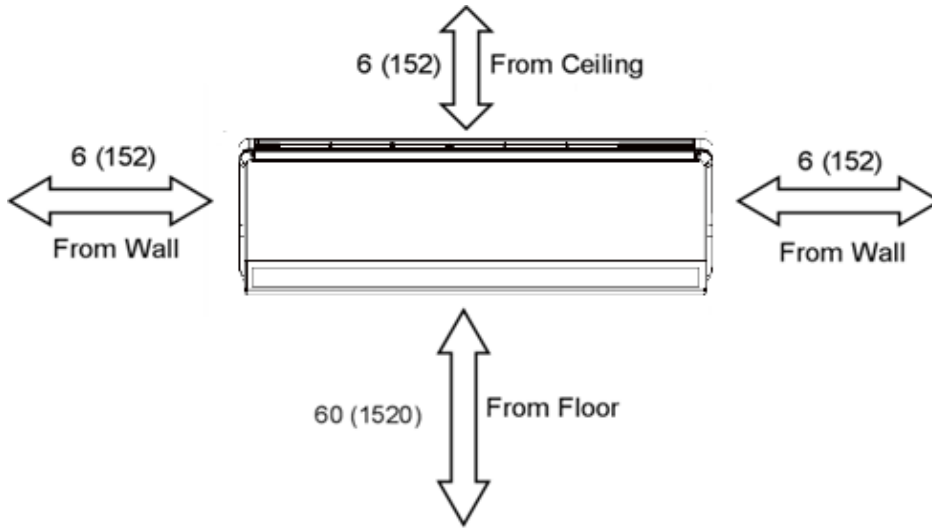
TC- Total Capacity (BtuH)
 SHC- Sensible Capacity (BtuH)



MINIMUM SPACING REQUIREMENTS

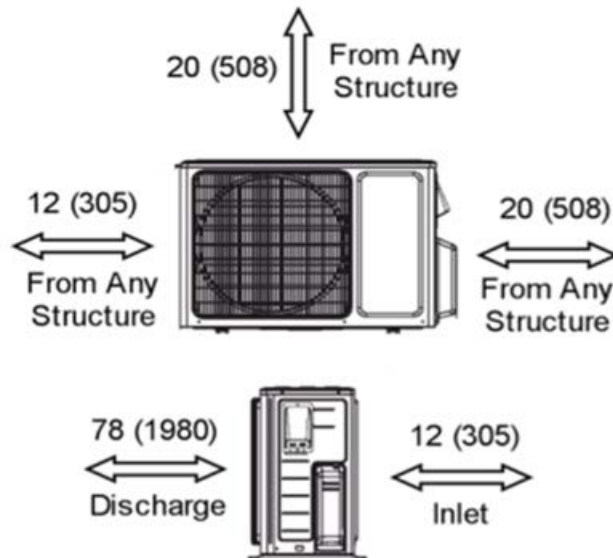
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR



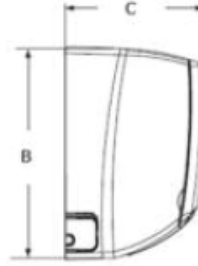
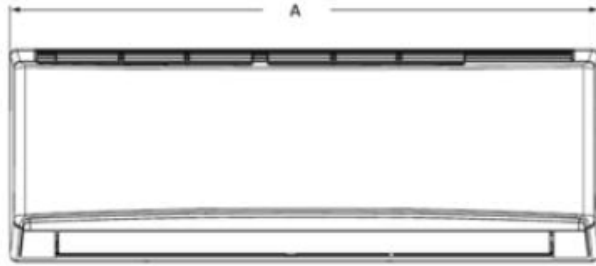
DIMENSIONAL SPECIFICATIONS

LIVS12HP230V1A

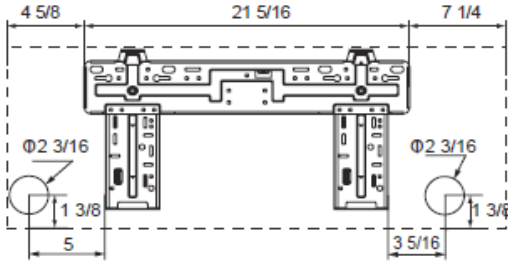
INDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS12HP230V1AH



Dimensions	
A	33.3
B	11.4
C	8.3



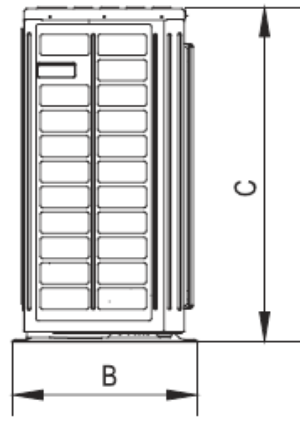
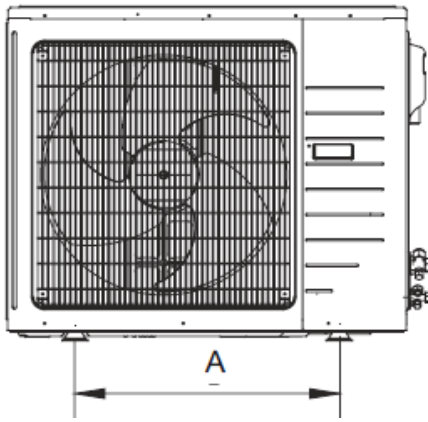
Weight (Net/Gross) 23.2/28.7 lbs

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

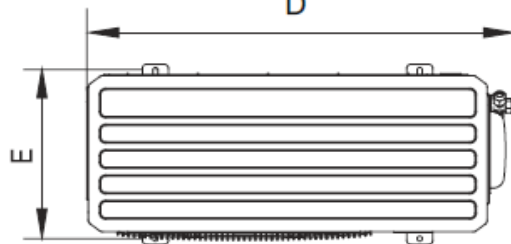
OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS12HP230V1AO



Dimensions	
A	20
B	12.6
C	21.3
D	30.6
E	11.3



Weight (Net/Gross) 69.5/75.0 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.



Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All rights reserved.

Submittal Data: LIVS18HP230V1A 18,000 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
 - XK-41 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

Cooling	
Rated Capacity	18,000 BTU/H
Capacity Range	7,165-20,000 BTU/H
Power Input (Max)	1,920 W
SEER	16.0
EER	9.0
Heating at 47° F	
Rated Capacity	19,000 BTU/H
Capacity Range	7,336-23,498 BTU/H
Power Input (Max)	2,000 W
HSPF	9.0
COP	2.8
Heating at 17° F	
Rated Capacity	12,000 BTU/H
Operating Range	
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

Fan Motor	Type	Cross-Flow
	Output Power	30 W
	FLA	0.3 A
Airflow		
Cooling	Wet (Lo/Hi)	282/471 CFM
Heating	Dry (Lo/Hi)	282/471 CFM
Sound Pressure Level		
Cooling	(Min/Max)	35/46 db(A)
Heating	(Min/Max)	35/46 db(A)
Dehumidification		3.80 pt/hr

Refrigerant Piping Data

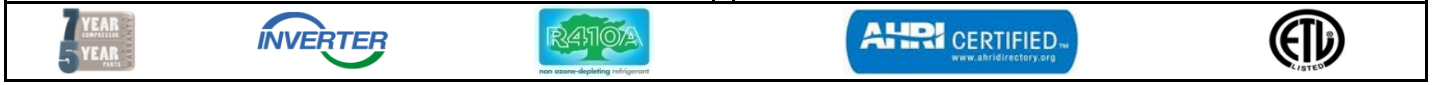
Gas Pipe Size (OD)	1/2-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	49.4 oz
Additional Charge	0.2 oz
Pre-Charge Length	25-ft
MAX Refrigerant Pipe Length	82-ft
MIN Refrigerant Pipe Length	10-ft
MAX Refrigerant Pipe Elevation	33-ft

Outdoor Unit Data

Compressor	Type	DC Inverter Driven Rotary
	RLA	12.1 A
Refrigerant Type		R410A
Fan Motor	Output Power	60 W
	FLA	0.52 A
Sound Pressure		
Cooling/Heating		56/56 db(A)

Electrical Data

Power Supply	
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz
Voltage Range	187 - 253 V
MCA	16.0 A
MOCP/Breaker Size	25 A
Main Power Wire Size	12-2 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	9,302	7,296	9,827	7,704	11,091	8,699	11,423	8,910
5°F	10,111	7,930	10,682	8,374	12,055	9,455	12,417	9,685
14°F	11,729	9,199	12,391	9,714	13,984	10,968	14,404	11,235
23°F	12,850	10,080	13,745	10,782	15,749	12,352	16,221	12,653
32°F	13,332	10,458	14,260	11,186	16,339	12,815	16,830	13,127
41°F	13,832	10,850	14,795	11,605	16,952	13,296	17,461	13,619
50°F	14,351	11,257	15,350	12,041	17,588	13,794	18,115	14,130
59°F	15,583	12,222	16,668	13,072	18,255	14,314	18,803	14,666
68°F	17,649	13,842	18,752	14,705	20,038	15,716	20,640	16,099
77°F	17,440	13,680	18,549	14,549	19,855	15,574	20,450	15,951
86°F	16,582	13,004	17,685	13,873	19,303	15,139	19,882	15,508
95°F	15,694	12,309	16,025	12,569	18,384	14,419	18,935	14,770
104°F	14,934	11,713	15,259	11,967	17,056	14,047	17,567	13,702
113°F	14,168	11,111	14,707	11,533	15,833	13,445	16,308	12,720
115°F	14,126	11,078	14,768	11,581	15,787	13,393	16,261	12,683

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	10,146	10,146	9,975	9,975	9,776	9,776	9,572	9,572
0°F	10,994	10,994	10,811	10,811	10,596	10,596	10,365	10,365
6°F	11,598	11,598	11,402	11,402	11,176	11,176	10,933	10,933
10°F	12,080	12,080	11,878	11,878	11,642	11,642	11,390	11,390
16°F	12,446	12,446	12,238	12,238	11,995	11,995	11,732	11,732
19°F	12,684	12,684	12,476	12,476	12,228	12,228	11,958	11,958
24°F	14,111	14,111	13,898	13,898	13,621	13,621	13,385	13,385
32°F	15,771	15,771	15,557	15,557	15,248	15,248	15,045	15,045
41°F	17,668	17,668	17,461	17,461	17,113	17,113	16,942	16,942
43°F	18,144	18,144	17,930	17,930	17,574	17,574	17,418	17,418
47°F	19,718	19,718	19,376	19,376	18,991	18,991	18,534	18,534
53°F	19,913	19,913	19,565	19,565	19,176	19,176	18,717	18,717
59°F	20,371	20,371	20,011	20,011	19,613	19,613	19,144	19,144
64°F	20,804	20,804	20,438	20,438	20,031	20,031	19,553	19,553
70°F	21,194	21,194	20,828	20,828	20,414	20,414	19,925	19,925
75°F	21,493	21,493	21,115	21,115	20,695	20,695	20,200	20,200

* Maximum system capacity

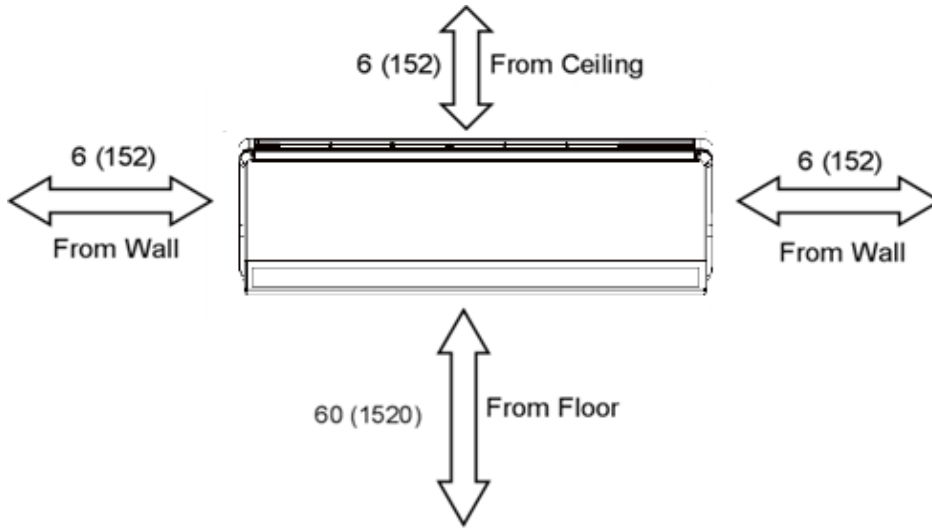
TC- Total Capacity (BtuH)
 SHC- Sensible Capacity (BtuH)



MINIMUM SPACING REQUIREMENTS

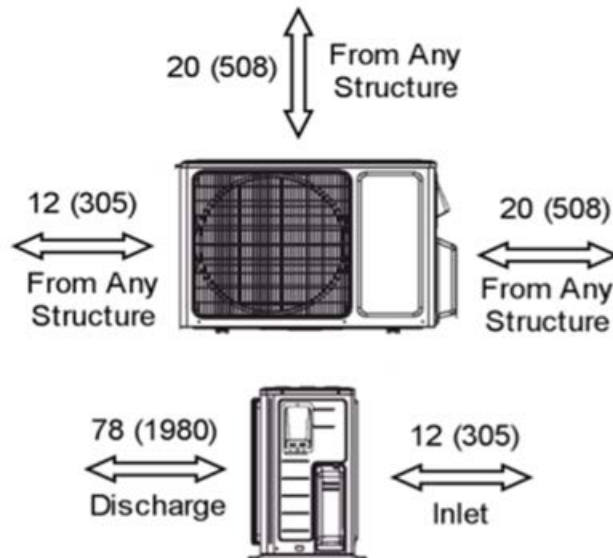
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR



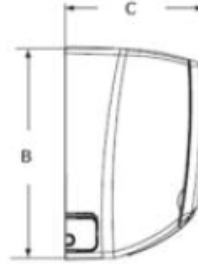
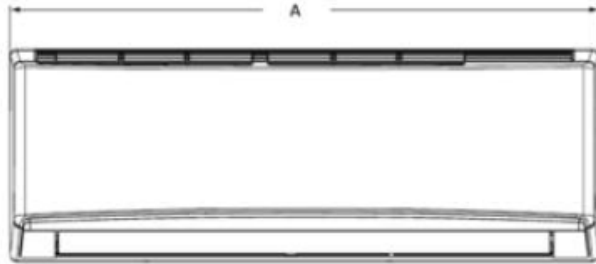
DIMENSIONAL SPECIFICATIONS

LIVS18HP230V1A

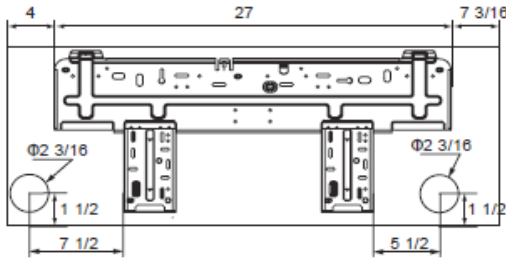
INDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS18HP230V1AH



Dimensions	
A	38.2
B	11.8
C	8.8



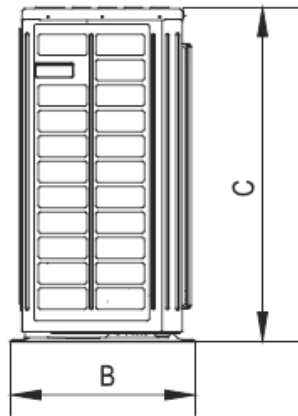
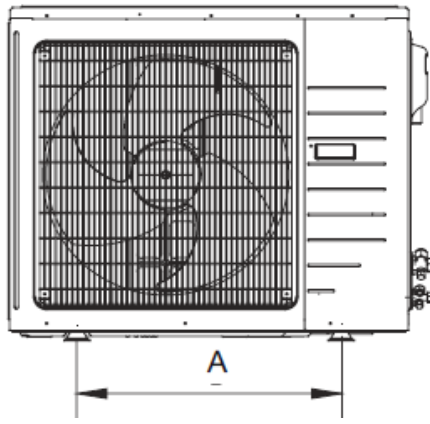
Weight (Net/Gross) 29.8/36.4 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-in OD Flared
Drain Connector	5/8-in OD

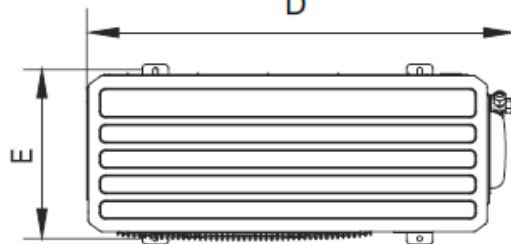
OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS18HP230V1AO



Dimensions	
A	22.0
B	15.3
C	27.6
D	38.0
E	14.3



Weight (Net/Gross) 95.9/105.8 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	1/2-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.



Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All rights reserved.

Submittal Data: LIVS24HP230V1A 24,000 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
 - XK-41 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

Cooling	
Rated Capacity	22,000 BTU/H
Capacity Range	8,630-23,200 BTU/H
Power Input (Max)	2,260 W
SEER	16.0
EER	9.75
Heating at 47° F	
Rated Capacity	23,000 BTU/H
Capacity Range	8,650-26,000 BTU/H
Power Input (Max)	2,300 W
HSPF	9.0
COP	2.9
Heating at 17° F	
Rated Capacity	13,500 BTU/H
Operating Range	
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

Fan Motor	Type	Cross-Flow
	Output Power	40 W
	FLA	0.3 A
Airflow		
Cooling	Wet (Lo/Hi)	530/706 CFM
Heating	Dry (Lo/Hi)	530/706 CFM
Sound Pressure Level		
Cooling	(Min/Max)	36/48 db(A)
Heating	(Min/Max)	36/48 db(A)
Dehumidification		5.28 pt/hr

Refrigerant Piping Data

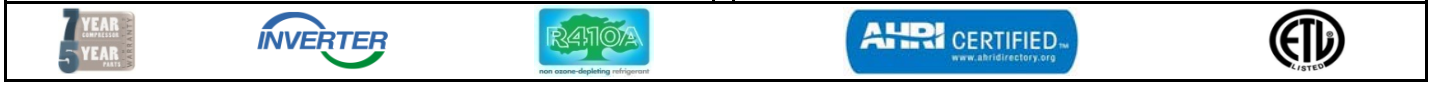
Gas Pipe Size (OD)	5/8-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	65.3 oz
Additional Charge	0.54 oz
Pre-Charge Length	25-ft
MAX Refrigerant Pipe Length	82-ft
MIN Refrigerant Pipe Length	10-ft
MAX Refrigerant Pipe Elevation	33-ft

Outdoor Unit Data

Compressor	Type	DC Inverter Driven Rotary
	RLA	12.2 A
Refrigerant Type		R410A
Fan Motor	Output Power	60 W
	FLA	0.40 A
Sound Pressure		
Cooling/Heating		59/59 db(A)

Electrical Data

Power Supply	
Normal Operational Voltage	208/230 V, 1 Phase, 60 Hz
Voltage Range	187 - 253 V
MCA	16.0 A
MOCP/Breaker Size	25 A
Main Power Wire Size	12-2 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	10,940	8,580	11,557	9,061	13,043	10,230	13,434	10,479
5°F	11,891	9,326	12,562	9,848	14,177	11,120	14,603	11,390
14°F	13,794	10,818	14,572	11,424	16,446	12,899	16,939	13,212
23°F	15,112	11,855	16,165	12,680	18,521	14,526	19,077	14,880
32°F	15,679	12,299	16,771	13,155	19,216	15,071	19,792	15,438
41°F	16,267	12,761	17,400	13,648	19,936	15,636	20,534	16,017
50°F	16,877	13,239	18,052	14,160	20,684	16,223	21,304	16,617
59°F	18,327	14,373	19,602	15,373	21,469	16,833	22,113	17,248
68°F	20,755	16,278	22,052	17,293	23,566	18,483	24,273	18,933
77°F	20,510	16,089	21,815	17,111	23,350	18,315	24,050	18,759
86°F	19,501	15,293	20,798	16,315	22,701	17,804	23,382	18,238
95°F	18,456	14,475	18,845	14,782	21,620	16,957	22,269	17,370
104°F	17,563	13,775	17,945	14,074	20,058	16,519	20,660	16,115
113°F	16,662	13,067	17,296	13,563	18,621	15,811	19,179	14,960
115°F	16,612	13,028	17,368	13,620	18,566	15,750	19,123	14,916

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	11,659	11,659	11,463	11,463	11,235	11,235	11,000	11,000
0°F	12,634	12,634	12,423	12,423	12,176	12,176	11,912	11,912
6°F	13,328	13,328	13,103	13,103	12,843	12,843	12,564	12,564
10°F	13,882	13,882	13,650	13,650	13,379	13,379	13,089	13,089
16°F	14,302	14,302	14,064	14,064	13,784	13,784	13,482	13,482
19°F	14,576	14,576	14,337	14,337	14,052	14,052	13,741	13,741
24°F	16,216	16,216	15,971	15,971	15,653	15,653	15,382	15,382
32°F	18,123	18,123	17,878	17,878	17,522	17,522	17,289	17,289
41°F	20,304	20,304	20,065	20,065	19,666	19,666	19,469	19,469
43°F	20,851	20,851	20,605	20,605	20,195	20,195	20,016	20,016
47°F	22,659	22,659	22,267	22,267	21,824	21,824	21,299	21,299
53°F	22,884	22,884	22,484	22,484	22,037	22,037	21,510	21,510
59°F	23,410	23,410	22,996	22,996	22,538	22,538	22,000	22,000
64°F	23,907	23,907	23,487	23,487	23,019	23,019	22,470	22,470
70°F	24,356	24,356	23,935	23,935	23,459	23,459	22,898	22,898
75°F	24,700	24,700	24,265	24,265	23,782	23,782	23,213	23,213

* Maximum system capacity

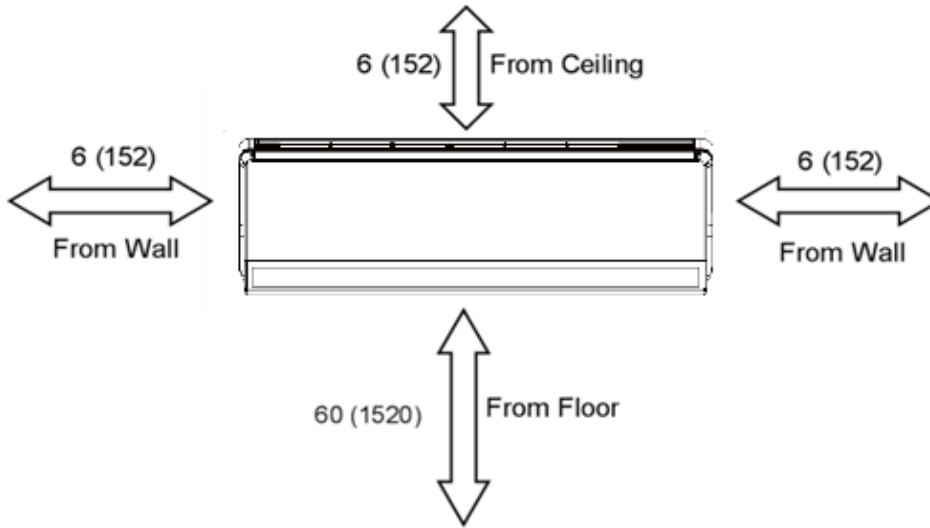
TC- Total Capacity (BtuH)
 SHC- Sensible Capacity (BtuH)



MINIMUM SPACING REQUIREMENTS

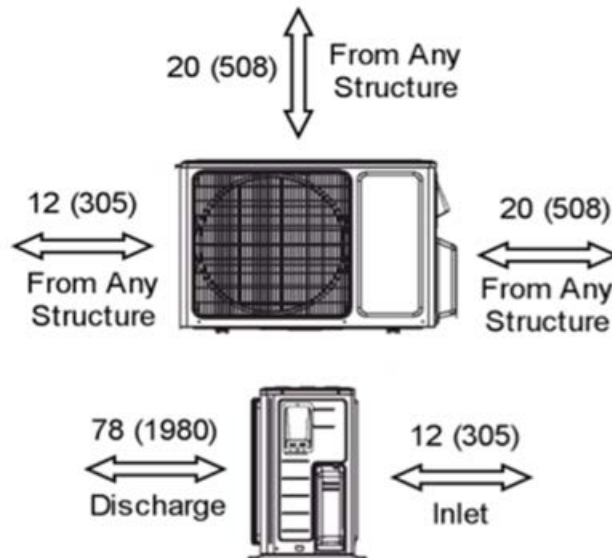
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR



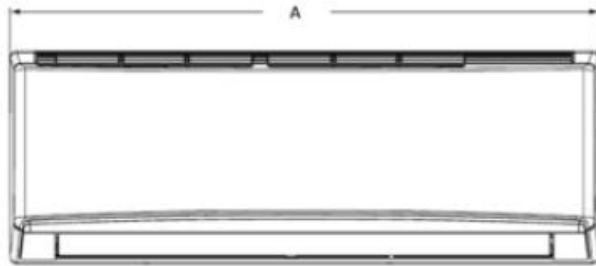
DIMENSIONAL SPECIFICATIONS

LIVS24HP230V1A

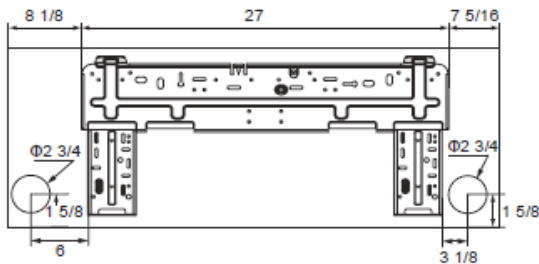
INDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS24HP230V1AH



Dimensions	
A	42.4
B	12.8
C	9.7



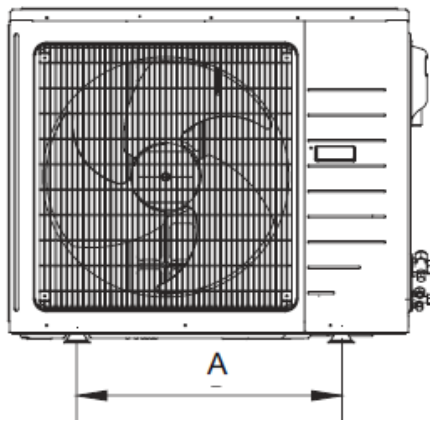
Weight (Net/Gross) 37.5/45.2 lbs

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

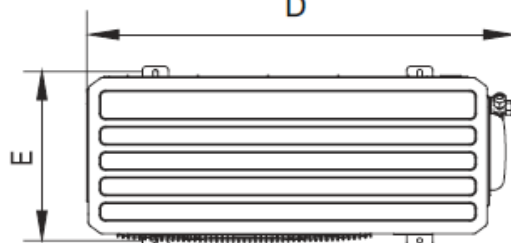
OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS24HP230V1AO



Dimensions	
A	22.0
B	15.3
C	27.6
D	38.0
E	14.3



Weight (Net/Gross) 110.3/120.2 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	5/8-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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Submittal Data: LIVS30HP230V1A 30,000 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

Cooling		
Rated Capacity		28,000 BTU/H
Capacity Range		9,500-30,000 BTU/H
Power Input (Max)		2,700 W
SEER		16.0
EER		9.3
Heating at 47° F		
Rated Capacity		28,400 BTU/H
Capacity Range		10,000-33,000 BTU/H
Power Input (Max)		2,800 W
HSPF		8.2
COP		3.0
Heating at 17° F		
Rated Capacity		18,400 BTU/H
Operating Range		
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

Fan Motor	Type	Cross-Flow
	Output Power	70 W
	FLA	0.4 A
Airflow		
Cooling	Wet (Lo/Hi)	412/706 CFM
Heating	Dry (Lo/Hi)	412/706 CFM
Sound Pressure Level		
Cooling	(Min/Max)	41/56 db(A)
Heating	(Min/Max)	41/56 db(A)
Dehumidification		6.34 pt/hr

Refrigerant Piping Data

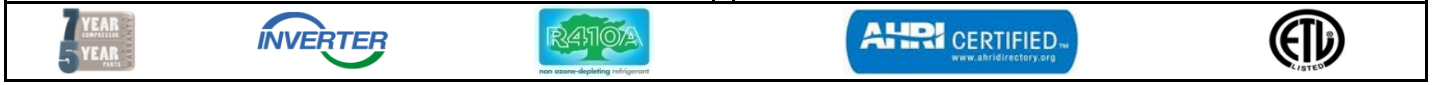
Gas Pipe Size (OD)	5/8-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	84.7 oz
Additional Charge	0.54 oz
Pre-Charge Length	25-ft
MAX Refrigerant Pipe Length	98-ft
MIN Refrigerant Pipe Length	10-ft
MAX Refrigerant Pipe Elevation	33-ft

Outdoor Unit Data

Compressor	Type	DC Inverter Driven Rotary
	RLA	13.5 A
Refrigerant Type		R410A
Fan Motor	Output Power	120 W
	FLA	0.45 A
Sound Pressure		
Cooling/Heating		62/62 db(A)

Electrical Data

Power Supply		
Normal Operational Voltage		208/230 V, 1 Phase, 60 Hz
Voltage Range		187 - 253 V
MCA		20.0 A
MOCP/Breaker Size		30 A
Main Power Wire Size		10-2 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	15,794	12,387	16,686	13,081	18,831	14,770	19,114	14,991
5°F	16,626	13,039	17,564	13,770	19,822	15,547	20,120	15,780
14°F	18,288	14,343	19,320	15,147	21,805	17,102	22,132	17,358
23°F	20,037	15,718	21,432	16,811	24,556	19,260	25,047	19,549
32°F	20,838	16,346	22,289	17,484	25,539	20,030	26,049	20,331
41°F	21,672	17,000	23,181	18,183	26,560	20,832	27,091	21,144
50°F	22,539	17,680	24,108	18,910	27,623	21,665	28,175	21,990
59°F	24,298	19,057	25,990	20,383	28,464	22,318	29,034	22,653
68°F	27,518	21,583	29,238	22,928	31,245	24,506	31,870	24,873
77°F	27,194	21,331	28,923	22,686	30,958	24,283	31,577	24,647
86°F	25,856	20,276	27,576	21,631	30,098	23,606	30,700	23,960
95°F	24,470	19,192	26,181	20,528	28,665	22,483	29,238	22,820
104°F	23,286	18,263	24,986	19,599	27,920	21,902	28,478	22,231
113°F	22,091	17,324	23,792	18,660	26,735	20,963	27,270	21,278
115°F	21,954	17,217	23,620	18,525	26,545	20,815	27,076	21,128

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	15,986	15,986	15,717	15,717	15,259	15,259	15,083	15,083
0°F	17,322	17,322	17,034	17,034	17,178	17,178	16,332	16,332
6°F	18,274	18,274	17,966	17,966	18,126	18,126	17,226	17,226
10°F	19,033	19,033	18,716	18,716	18,878	18,878	17,947	17,947
16°F	19,610	19,610	19,283	19,283	19,441	19,441	18,485	18,485
19°F	19,985	19,985	19,658	19,658	19,816	19,816	18,841	18,841
24°F	22,234	22,234	21,898	21,898	22,129	22,129	21,091	21,091
32°F	24,849	24,849	24,513	24,513	24,817	24,817	23,705	23,705
41°F	27,839	27,839	27,512	27,512	27,891	27,891	26,695	26,695
43°F	28,589	28,589	28,252	28,252	28,662	28,662	27,445	27,445
47°F	31,069	31,069	30,530	30,530	30,757	30,757	29,204	29,204
53°F	31,376	31,376	30,828	30,828	31,064	31,064	29,492	29,492
59°F	32,097	32,097	31,530	31,530	31,766	31,766	30,165	30,165
64°F	32,780	32,780	32,203	32,203	32,448	32,448	30,809	30,809
70°F	33,395	33,395	32,818	32,818	33,060	33,060	31,395	31,395
75°F	33,866	33,866	33,270	33,270	33,525	33,525	31,828	31,828

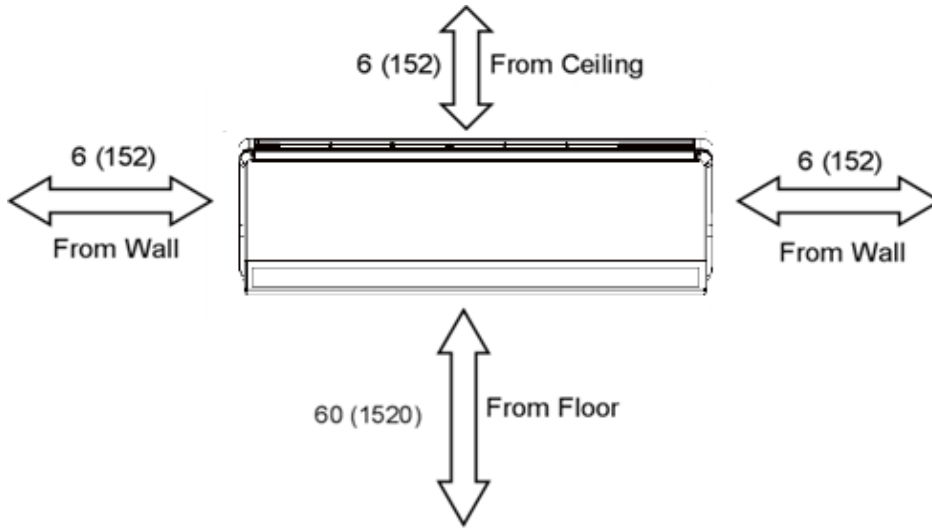
* Maximum system capacity

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

MINIMUM SPACING REQUIREMENTS

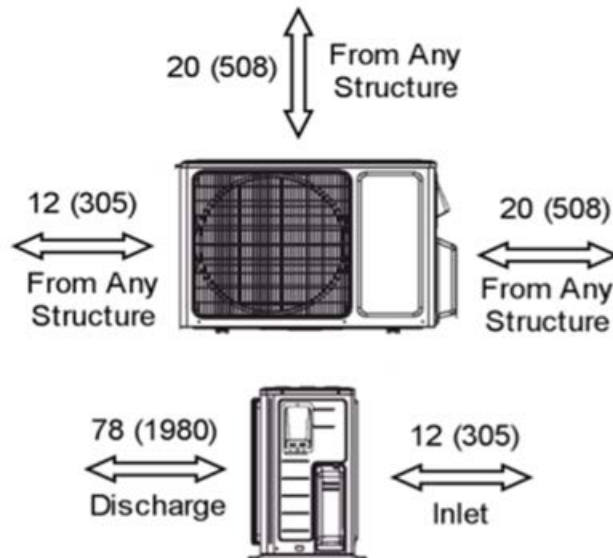
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR



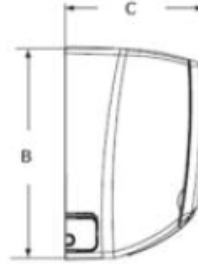
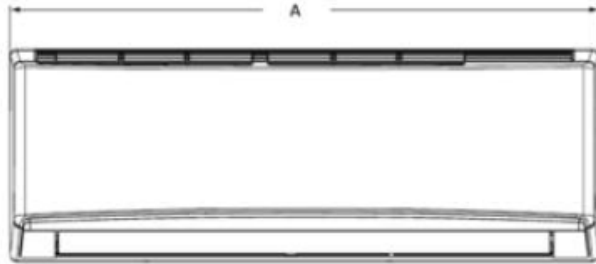
DIMENSIONAL SPECIFICATIONS

LIVS30HP230V1A

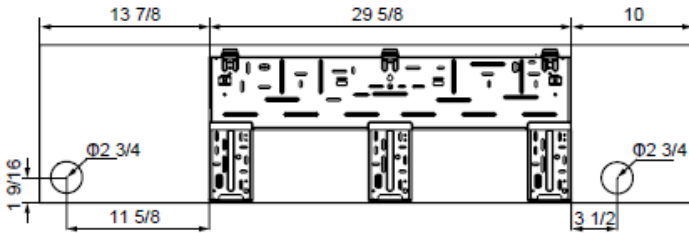
INDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS30HP230V1AH



Dimensions	
A	53.2
B	12.8
C	10.0



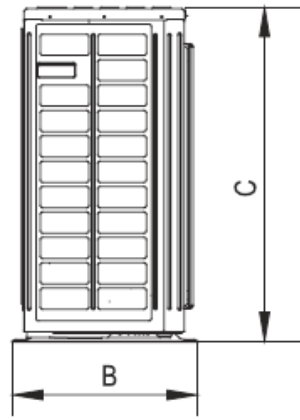
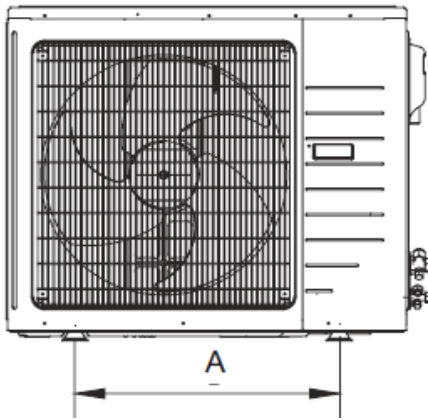
Weight (Net/Gross) 41.9/57.3 lbs

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

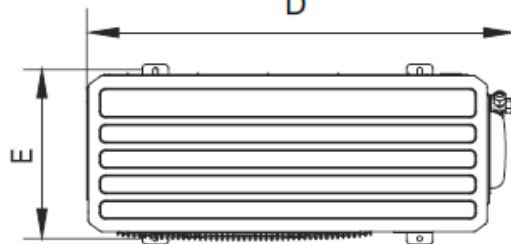
OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS30HP230V1AO



Dimensions	
A	24.0
B	16.8
C	31.2
D	39.4
E	15.6



Weight (Net/Gross) 154.4/163.2 lbs

Liquid Line Valve	1/4-in OD Flared
Gas Line Valve	5/8-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.



Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or modify specifications or designs without notice or without incurring obligations. All rights reserved.

Submittal Data: LIVS36HP230V1A 36,000 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
 - XK-41 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

Cooling		
Rated Capacity		33,600 BTU/H
Capacity Range		7,400-36,000 BTU/H
Power Input (Max)		3,900 W
SEER		16.0
EER		8.2
Heating at 47° F		
Rated Capacity		34,600 BTU/H
Capacity Range		15,000-36,000 BTU/H
Power Input (Max)		3,800 W
HSPF		8.2
COP		2.7
Heating at 17° F		
Rated Capacity		20,600 BTU/H
Operating Range		
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

Fan Motor	Type	Cross-Flow
	Output Power	70 W
	FLA	0.4 A
Airflow		
Cooling	Wet (Lo/Hi)	412/736 CFM
Heating	Dry (Lo/Hi)	412/736 CFM
Sound Pressure Level		
Cooling	(Min/Max)	41/56 db(A)
Heating	(Min/Max)	41/56 db(A)
Dehumidification		7.40 pt/hr

Refrigerant Piping Data

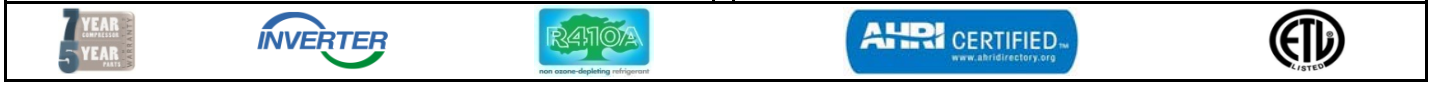
Gas Pipe Size (OD)	5/8-in
Liquid Pipe Size (OD)	1/4-in
Connection Method	Flared
Factory Charge	91.7 oz
Additional Charge	0.54 oz
Pre-Charge Length	25-ft
MAX Refrigerant Pipe Length	98-ft
MIN Refrigerant Pipe Length	10-ft
MAX Refrigerant Pipe Elevation	33-ft

Outdoor Unit Data

Compressor	Type	DC Inverter Driven Rotary
	RLA	17.5 A
Refrigerant Type		R410A
Fan Motor	Output Power	170 W
	FLA	0.73 A
Sound Pressure		
Cooling/Heating		65/65 db(A)

Electrical Data

Power Supply		
Normal Operational Voltage		208/230 V, 1 Phase, 60 Hz
Voltage Range		187 - 253 V
MCA		24.0 A
MOCP/Breaker Size		40 A
Main Power Wire Size		8-2 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	18,931	14,847	19,999	15,679	22,571	17,703	22,909	17,968
5°F	19,555	15,337	20,658	16,196	23,315	18,286	23,665	18,561
14°F	20,803	16,316	21,977	17,230	24,803	19,454	25,175	19,745
23°F	22,792	17,879	24,379	19,123	27,933	21,909	28,352	22,237
32°F	23,932	18,773	25,598	20,079	29,330	23,004	29,770	23,349
41°F	25,129	19,712	26,878	21,083	30,796	24,154	31,258	24,517
50°F	26,385	20,697	28,222	22,138	32,336	25,362	32,821	25,742
59°F	27,640	21,677	29,564	23,186	32,379	25,388	32,864	25,769
68°F	31,303	24,551	33,259	26,081	35,542	27,876	36,075	28,294
77°F	30,933	24,265	32,900	25,806	35,216	27,622	35,744	28,037
86°F	29,412	23,065	31,368	24,606	34,237	26,852	34,751	27,255
95°F	27,836	21,832	29,781	23,351	32,607	25,575	33,096	25,958
104°F	26,488	20,775	28,422	22,294	31,759	24,914	32,236	25,288
113°F	25,129	19,707	27,064	21,226	30,411	23,846	30,868	24,204
115°F	25,000	19,605	26,897	21,095	30,228	23,703	30,681	24,059

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	17,515	17,515	17,220	17,220	16,718	16,718	16,525	16,525
0°F	18,979	18,979	18,663	18,663	18,104	18,104	17,894	17,894
6°F	20,022	20,022	19,685	19,685	19,104	19,104	18,874	18,874
10°F	20,854	20,854	20,506	20,506	19,895	19,895	19,664	19,664
16°F	21,486	21,486	21,128	21,128	20,489	20,489	20,253	20,253
19°F	21,896	21,896	21,538	21,538	20,885	20,885	20,643	20,643
24°F	24,361	24,361	23,992	23,992	23,322	23,322	23,108	23,108
32°F	27,226	27,226	26,857	26,857	26,156	26,156	25,972	25,972
41°F	30,501	30,501	30,143	30,143	29,395	29,395	29,248	29,248
43°F	31,323	31,323	30,954	30,954	30,208	30,208	30,069	30,069
47°F	34,040	34,040	33,450	33,450	32,416	32,416	31,997	31,997
53°F	34,377	34,377	33,777	33,777	32,739	32,739	32,313	32,313
59°F	35,167	35,167	34,546	34,546	33,478	33,478	33,050	33,050
64°F	35,915	35,915	35,283	35,283	34,197	34,197	33,756	33,756
70°F	36,589	36,589	35,957	35,957	34,843	34,843	34,398	34,398
75°F	37,105	37,105	36,452	36,452	35,333	35,333	34,872	34,872

* Maximum system capacity

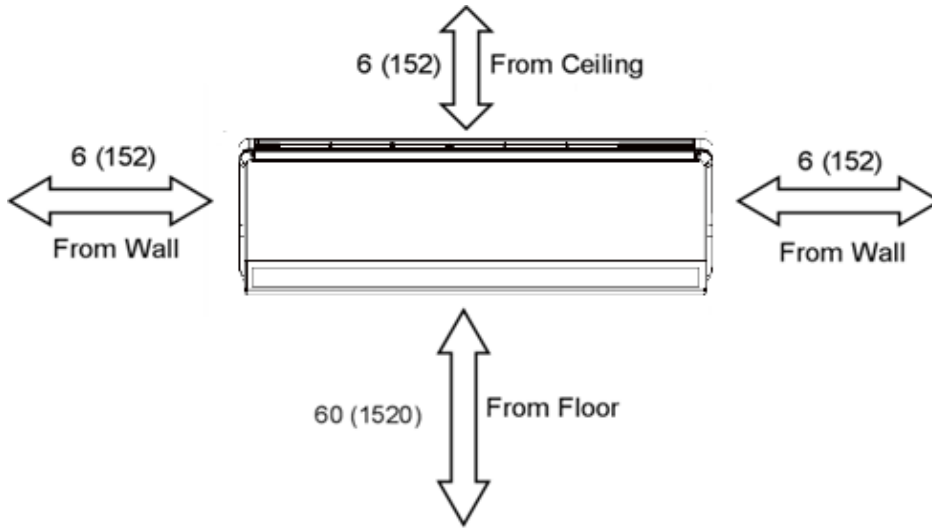
TC- Total Capacity (BtuH)
 SHC- Sensible Capacity (BtuH)



MINIMUM SPACING REQUIREMENTS

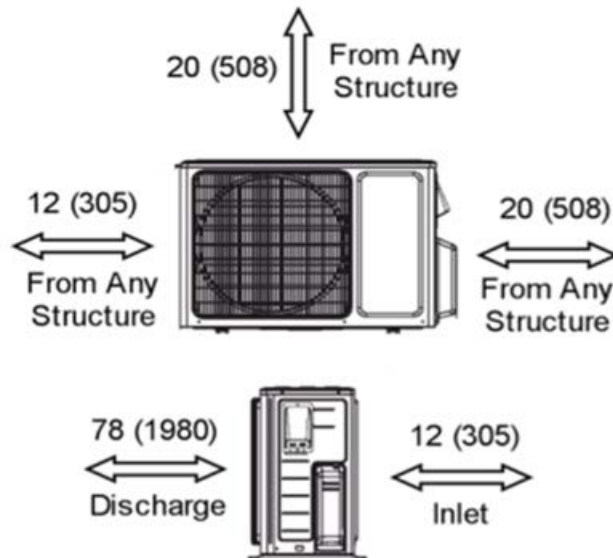
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR



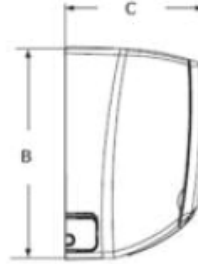
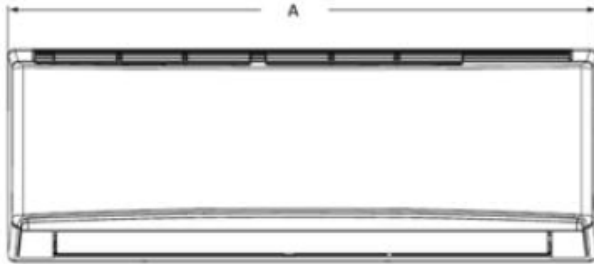
DIMENSIONAL SPECIFICATIONS

LIVS36HP230V1A

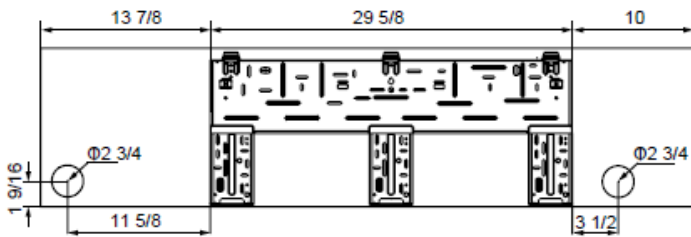
INDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS36HP230V1AH



Dimensions	
A	53.2
B	12.8
C	10.0



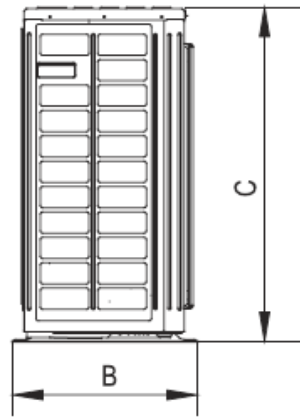
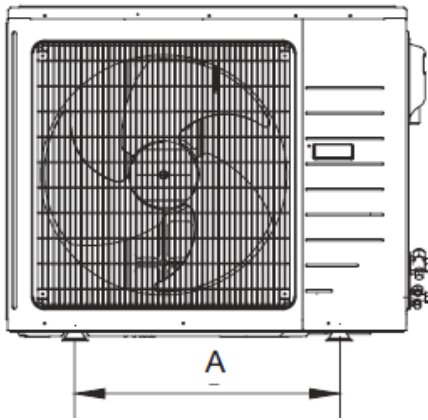
Weight (Net/Gross) 41.9/57.3 lbs

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

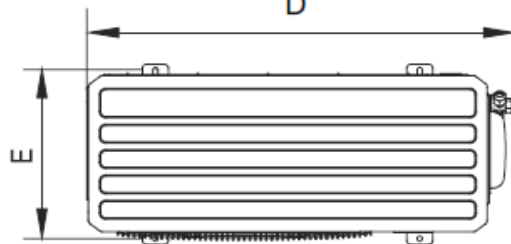
OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS36HP230V1AO



Dimensions	
A	24.0
B	16.8
C	31.2
D	39.4
E	15.6



Weight (Net/Gross) 161/170 lbs

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