

Haier

Submittals

Arctic Series

Rev. June 2025



1U09EH2HEB / AW09EH2HEB
1U09EH2HEB / AB09SC2VHA
1U09EH2HEB / USYF09UCDWA
1U09EH2HEB / USYM09UCDSA

1U12EH2HEB / AW12EH2HEB
1U12EH2HEB / AB12SC2VHA
1U12EH2HEB / USYF12UCDWA
1U12EH2HEB / USYM12UCDSA

1U18EH2HEB / AW18EH2HEB
1U18EH2HEB / AB18SC2VHA
1U18EH2HEB / USYF18UCDWA
1U18EH2HEB / USYM18UCDSA

1U24LP2HDA / AW24TL2HFA
1U24LP2HDA / USYM24UCDDA
1U24LP2HDA / USYL24UCDDA

1U3036LP2HDA / AW30TL2HFA
1U3036LP2HDA / AW36TL2HFA
1U3036LP2HDA / USYM30UCDDA
1U3036LP2HDA / USYM36UCDDA
1U3036LP2HDA / USYL30UCDDA
1U3036LP2HDA / USYL36UCDDA

1U4248LP2HDA / USYM42UCDDA
1U4248LP2HDA / USYM48UCDDA
1U4248LP2HDA / USYL42UCDDA
1U4248LP2HDA / USYL48UCDDA



For more information visit us:
GEappliancesAirAndWater.com



Revision History

Rev. April 2020 - Submittal edition release.

Rev. July 2020 - Added ODU floor mounting dimensions diagrams.

Rev. Aug 2020 - Controller updates.

Rev. Feb 2021 - Ducted, console, and cassette indoor units added. Capacity tables revised.

Rev. March 2021 - 18K wind baffle correction.

Rev. Jan. 2023 - M1 data added.

Rev. July 2023 - 1U24LP2HDA, 1U3036LP2HDA, 1U4248LP2HDA systems added.

Rev. Nov. 2023 - 1U(09/12/18)EH2VHE systems superseded by 1U(09/12/18)EH2HEB systems

Rev. Jan. 2024 - 1U(09/12/18)EH2HEB systems capacity data updated; 1U(09/12/18)EH2HEB dimension updated

Rev. June 2025 - USYM24UCDDA Supply Plenum corrections.

9000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM

1U09EH2HEB / AW09EH2HEB

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Motion Sense Remote (WJ26X27153)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.
Uses wind baffle QAWB37A

Built-in Features

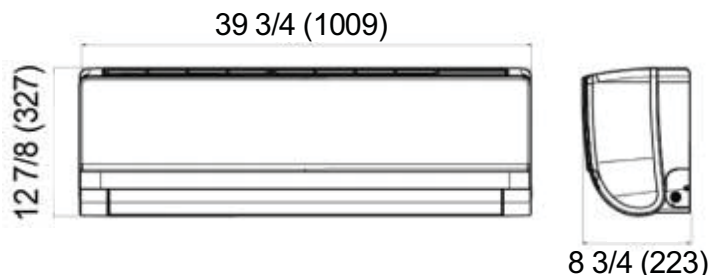
- WK-B wired controller adapter
- WiFi
- Occupancy sensor

Operating Range	Cooling w/Wind Baffle °F(°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	9,000
	Capacity Range Btu/hr	3,100~12,000
	SEER2/EER2	30.0/16.0
	Rated Power Input W	560
	Moisture Removal Pt./hr	2.5
Heating	Rated Heating Capacity 47°F Btu/hr	10,000
	Heating Capacity Range Btu/hr	3,100~20,000
	HSPF2 (IV)/HSPF2 (V)	14.0/10.0
	Rated Power Input W	845
Outdoor Unit	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	15
	Minimum Circuit AmpA	13
	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	27 1/2 x 35 x 13 7/8 (697 x 890 x 353)
	Carton Dimension: H x W x D in (mm)	30 3/4 x 42 3/8 x 18 1/8 (780 x 1076 x 460)
	Weight Ship/Net - lbs (kg)	115.5/98.3 (52.4/44.6)
	Base Pan Heater	Built-in
Indoor Unit	Fan Speed Stages	5 + Auto
	Cooling Airflow CFM (Turbo/High/Med/Low/Quiet)	546/433/340/250/235
	Heating Airflow CFM (Turbo/High/Med/Low/Quiet)	546/443/352/264/240
	Cooling Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1250/980/815/650/610
	Heating Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1200/980/840/700/610
	Indoor Sound Level dB Cooling (Turbo/High/ Med/Low/Quiet)	45/39/36/31/25
	Indoor Sound Level dB Heating (Turbo/High/ Med/Low/Quiet)	48/46/39/36/28
	Dimension: H x W x D in (mm)	12 7/8 x 39 3/4 x 8 3/4 (327 x 1009 x 223)
	Carton Dimension: H x W x D in (mm)	16 x 42 3/4 x 11 5/8 (405 x 1085 x 296)
	Weight Ship/Net - lbs (kg)	35.7/27.8 (16.2/12.6)
Piping	Drainpipe Size O.D. in	5/8
	Line Size: Liquid (Suction) in.	1/4 (1/2)
	IDU Flare Size: Liquid (Suction) in.	1/4 (1/2)
	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (56.8)
	Max. Line Length/Height Ft (mm)	50/33 (15/10)

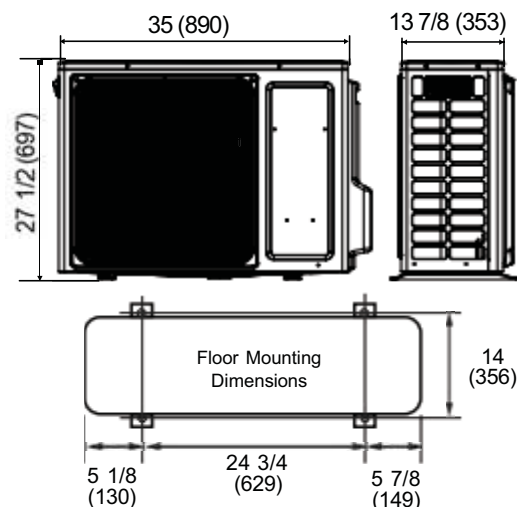
Haier Arctic Series Submittal

9000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2HEB / AW09EH2HEB

INDOOR UNIT



OUTDOOR UNIT



Heating Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature								
	60°F (16°C)			70°F (21°C)			77°F (25°C)		
	Maximum Capacity (Btu/h)	Power Usage (w)	COP	Maximum Capacity (Btu/h)	Power Usage (w)	COP	Maximum Capacity (Btu/h)	Power Usage (w)	COP
-31°F (-35°C)	2,700	1,180	0.67	2,800	1,250	0.66	3,000	1,350	0.65
-22°F (-30°C)	5,760	1,200	1.41	6,000	1,280	1.37	6,250	1,380	1.33
-15°F (-26°C)	7,400	1,300	1.67	7,500	1,340	1.64	7,620	1,440	1.55
-4°F (-20°C)	9,400	1,450	1.90	9,000	1,450	1.82	8,600	1,500	1.68
5°F (-15°C)	11,500	1,540	2.19	10,500	1,650	1.87	10,000	1,720	1.70
17°F (-8°C)	11,200	1,440	2.28	10,200	1,540	1.94	9,800	1,650	1.74
47°F (8°C)	11,800	1,380	2.51	10,800	1,480	2.14	10,200	1,550	1.93

Cooling Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature								
	70°F (21°C)			75°F (24°C)			80°F (27°C)		
	Maximum Capacity (Btu/h)	Power Usage (w)	EER	Maximum Capacity (Btu/h)	Power Usage (w)	EER	Maximum Capacity (Btu/h)	Power Usage (w)	EER
14°F (-10°C)*	10,236	538	19.03	10,681	518	20.62	11,126	498	22.34
32°F (0°C)	10,091	544	18.56	10,529	523	20.11	10,968	503	21.79
50°F (10°C)	9,946	549	18.11	10,378	529	19.62	10,811	509	21.26
65°F (18°C)	9,849	555	17.75	10,277	534	19.23	10,706	514	20.84
75°F (24°C)	9,753	561	17.40	10,177	540	18.85	10,601	519	20.42
85°F (29°C)	9,656	566	17.05	10,076	545	18.48	10,496	524	20.02
95°F (35°C)	8,694	647	13.43	9,072	623	14.56	9,450	599	15.77
105°F (41°C)	8,433	654	12.90	8,800	629	13.98	9,167	605	15.15
115°F (46°C)	8,259	660	12.51	8,618	636	13.56	8,978	611	14.69

Capacity and power usage are measured under the assumption of indoor humidity of 46%

* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit

9000 BTU/HR COMPACT CASSETTE TYPE INDOOR INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2HEB / AB09SC2VHA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Standard Remote Control (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB37A

Panel

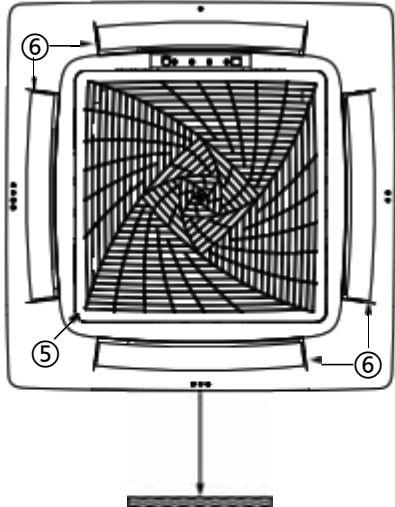
PB-700KB is required to complete the installation and it must be ordered separately

Operating Range	Cooling °F (°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	9,000
	Capacity Range Btu/hr	3,100~12,000
	SEER2/EER2	20.0/10.5
	Rated Power Input W	850
Heating	Moisture Removal Pt./hr	2.5
	Rated Heating Capacity 47°F Btu/hr	10,000
	Heating Capacity Range Btu/hr	3,100~18,000
	HSPF2 (IV)/HSPF2 (V)	8.2/6.3
	Rated Power Input W	1,100
Outdoor Unit	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	15
	Minimum Circuit AmpA	13
	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	27 1/2 x 35 x 13 7/8 (697 x 890 x 353)
	Carton Dimension: H x W x D in (mm)	30 3/4 x 42 3/8 x 18 1/8 (780 x 1076 x 460)
	Weight Ship/Net - lbs (kg)	115.5/98.3 (52.4/44.6)
Indoor Unit	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low/ Quiet)	410/365/305/265/205
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	830/760/690/620/560
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	42/40/36/32/25
	Dimension: H x W x D in (mm)	10 1/4 x 22 7/16 x 22 7/16 (260 x 570 x 570)
	Carton Dimension: H x W x D in (mm)	15 x 28 1/4 x 26 3/4 (380 x 718 x 680)
	Weight Ship/Net - lbs (kg)	43.9/34 (19.9/15.4)
	Condensate Pump	Standard
	Drain Pipe Size O.D in	1 1/4
	Max. Drain-Lift height in (mm)	27 9/16 (700)
Grille	Model Number	PB-700KB
	Weight Ship/Net - lbs (kg)	10.6/6.2 (4.8/2.8)
Piping	Line Size: Liquid (Suction) in.	1/4 (3/8)
	IDU Flare Size: Liquid (Suction) in.	1/4 (3/8)
	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	Lineset Adapter Required	1/2 to 3/8*
	Refrigerant (Factory Charge Oz.)	R410A (56.8)
	Max. Line Length/Height Ft (mm)	50/33 (15/10)

*Adapter shipped with outdoor unit. Install on outdoor unit.

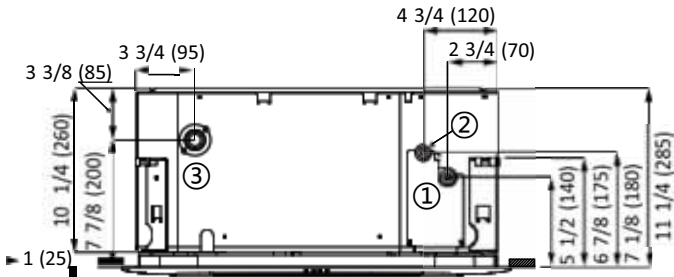
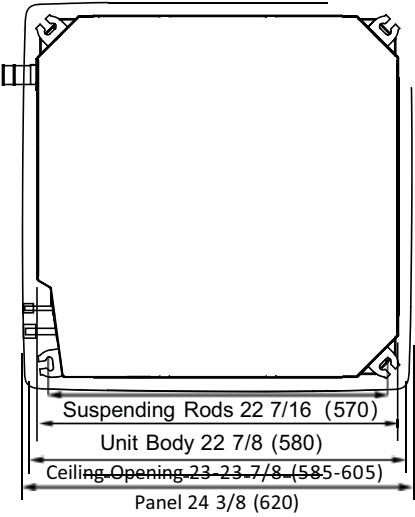
9000 BTU/HR COMPACT CASSETTE TYPE INDOOR INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2HEB / AB09SC2VHA

INDOOR UNIT

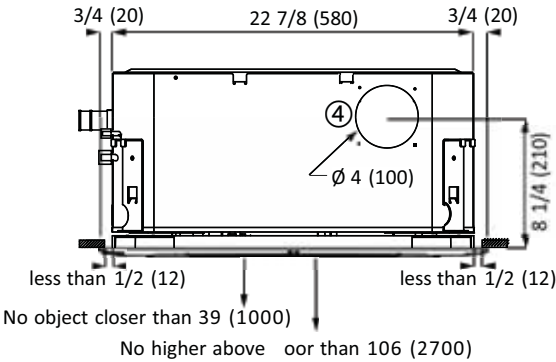


#	Part Name
1	Vapor Pipe
2	Liquid Pipe
3	Drain Pump Outlet
4	Fresh Air Inlet
5	Air Return Grille
6	Air Supply

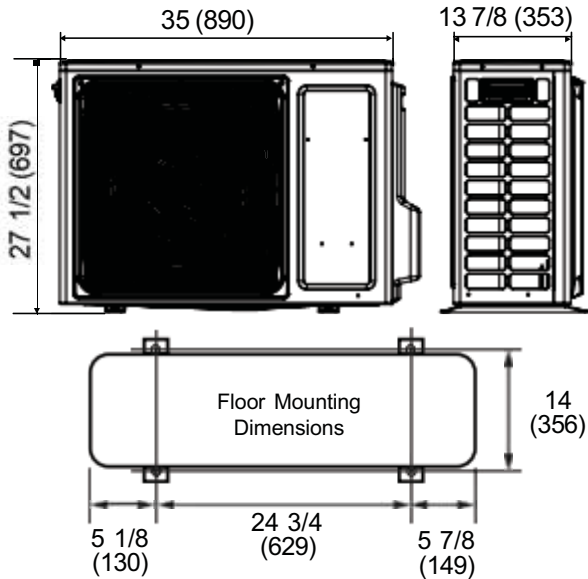
More than 59 (1500) to wall on all sides



1 inch recess between ceiling surface and bottom of unit without panel on.



OUTDOOR UNIT



9000 BTU/HR COMPACT CASSETTE TYPE INDOOR INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2HEB / AB09SC2VHA

Heating Capacity Data

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB/WB)								
	60			70			80		
	Capacity	Power Input	COP	Capacity	Power Input	COP	Capacity	Power Input	COP
	Btu/h	W		Btu/h	W		Btu/h	W	
-31	4618	837	1.62	4198	881	1.40	3862	925	1.22
-22	5247	909	1.69	4770	947	1.48	4436	985	1.32
-15	5618	974	1.69	5242	1029	1.49	4984	1087	1.34
-4	6791	1018	1.96	6338	1076	1.73	6026	1136	1.55
0	7965	1062	2.20	7433	1123	1.94	7067	1186	1.75
5	8384	1106	2.22	7824	1170	1.96	7439	1235	1.77
17	13471	1073	3.68	12571	1134	3.25	11953	1198	2.92
23	18977	2109	2.64	17709	2230	2.33	16838	2355	2.10
32	29569	3145	2.76	27593	3325	2.43	26236	3511	2.19
41	20527	2054	2.93	19156	2171	2.59	18213	2293	2.33
47	11486	962	3.50	10718	1017	3.09	10191	1074	2.78

Cooling Capacity Data

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB/WB)								
	70/67			75/64			80/67		
	TC	PI	EER	TC	PI	EER	TC	PI	EER
	Btu/h	W		Btu/h	W		Btu/h	W	
14	13070	596	21.92	13266	611	21.71	13532	629	21.50
23	22717	1073	21.17	23058	1100	20.96	23519	1133	20.76
32	14523	701	20.71	14740	719	20.50	15035	740	20.30
50	6184	323	19.16	6277	331	18.97	6402	341	18.79
65	7008	527	13.29	7113	540	13.16	7256	557	13.03
75	7660	644	11.89	7775	660	11.78	7930	680	11.66
85	8311	761	10.92	8436	780	10.82	8604	803	10.71
95	8834	807	10.95	8967	827	10.84	9146	852	10.73
105	8575	900	9.53	8703	922	9.44	8878	950	9.35
110	7909	890	8.89	8028	912	8.80	8189	939	8.72
115	7244	880	8.24	7353	902	8.15	7500	929	8.08

Capacity and power usage are measured under the assumption of indoor humidity of 46%

* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit

9000 BTU/HR FLOOR CONSOLE INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2HEB / USYF09UCDWA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Standard Remote Control (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.
Uses wind baffle QAWB37A

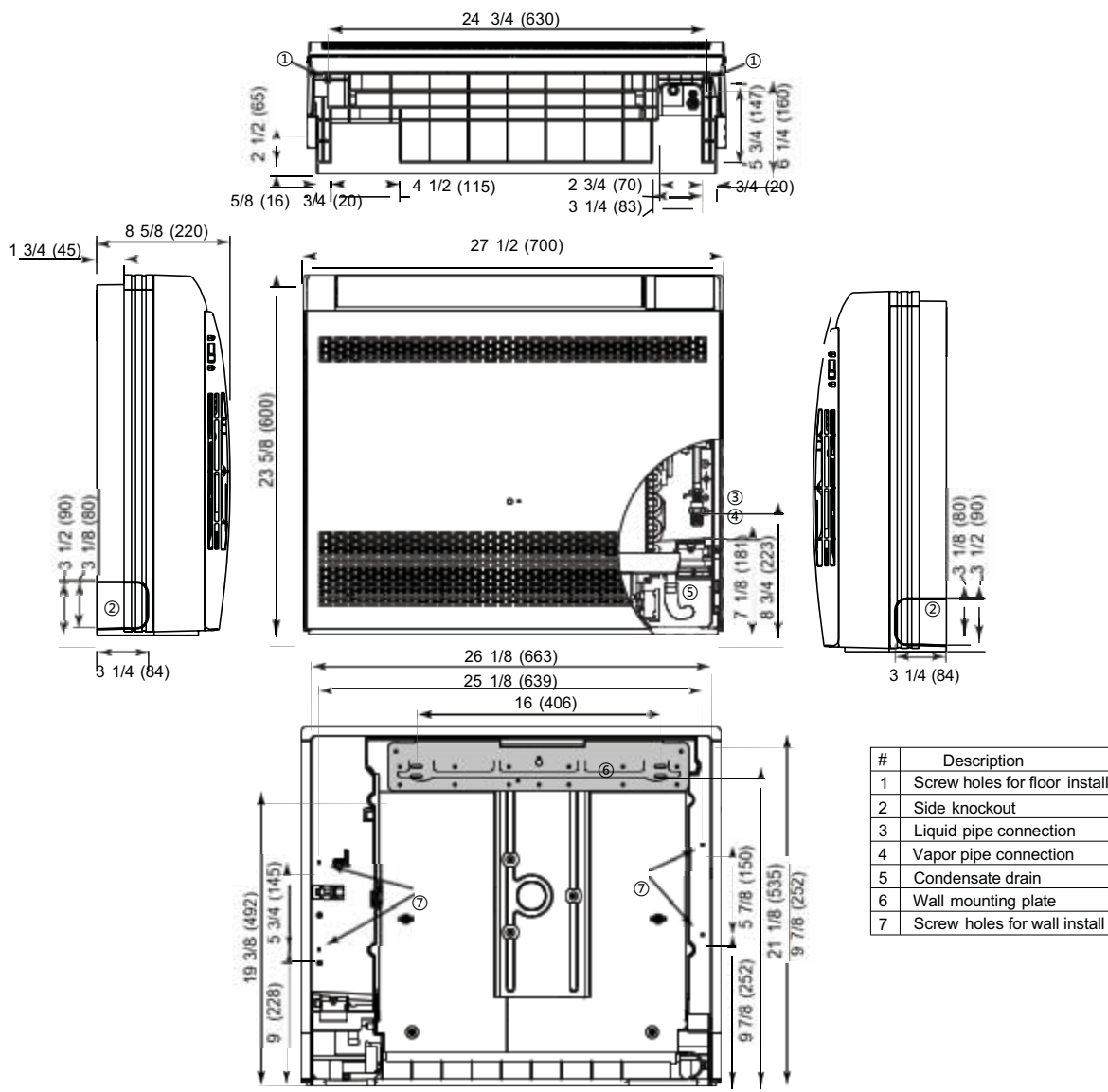
Built-in WiFi

Operating Range	Cooling °F (°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	9,000
	Capacity Range Btu/hr	3,100~12,000
	SEER2/EER2	20.0/11.0
	Rated Power Input W	810
Heating	Moisture Removal Pt./hr	2.5
	Rated Heating Capacity 47°F Btu/hr	10,000
	Heating Capacity Range Btu/hr	3,100~18,000
	HSPF2 (IV)/HSPF2 (V)	8.5/6.4
Outdoor Unit	Rated Power Input W	1,010
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	15
	Minimum Circuit AmpA	13
	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	27 1/2 x 35 x 13 7/8 (697 x 890 x 353)
Indoor Unit	Carton Dimension: H x W x D in (mm)	30 3/4 x 42 3/8 x 18 1/8 (780 x 1076 x 460)
	Weight Ship/Net - lbs (kg)	115.5/98.3 (52.4/44.6)
	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low/Quiet)	264/235/205/176/147
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	650/560/480/410/360
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	43/40/37/34/31
Piping	Dimension: H x W x D in (mm)	23 3/4 x 27 1/2 x 8 1/4 (600 x 700 x 210)
	Carton Dimension: H x W x D in (mm)	27 1/2 x 30 3/4 x 12 (695 x 783 x 303)
	Weight Ship/Net - lbs (kg)	35.7/27.8 (16.2/12.6)
	Drain Pipe Size O.D in	5/8
	Line Size: Liquid (Suction) in.	1/4 (3/8)
	IDU Flare Size: Liquid (Suction) in.	1/4 (3/8)
Piping	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	ODU Adapter Required	1/2 to 3/8*
	Refrigerant (Factory Charge Oz.)	R410A (56.8)
Piping	Max. Line Length/Height Ft (mm)	50/33 (15/10)

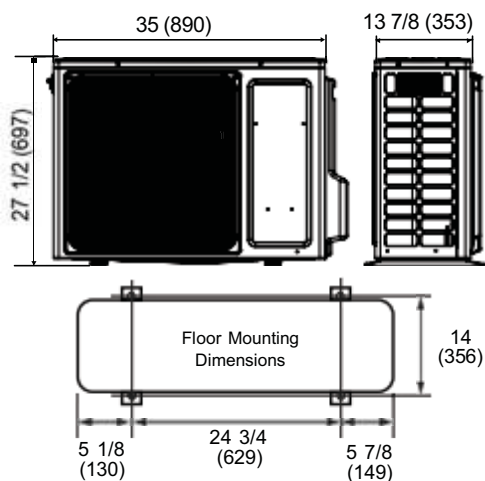
*Adapter shipped with outdoor unit. Install on outdoor unit.

9000 BTU/HR FLOOR CONSOLE INVERTER DRIVEN HEAT PUMP SYSTEM USYF09UCDWA

INDOOR UNIT



OUTDOOR UNIT



9000 BTU/HR FLOOR CONSOLE INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2HEB / USYF09UCDWA

Heating Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	60			70			80		
	Capacity	Power Input	COP	Capacity	Power Input	COP	Capacity	Power Input	COP
	Btu/h	W		Btu/h	W		Btu/h	W	
-31	4618	837	1.62	4198	881	1.40	3862	925	1.22
-22	5247	909	1.69	4770	947	1.48	4436	985	1.32
-15	5618	974	1.69	5242	1029	1.49	4984	1087	1.34
-4	6791	1018	1.96	6338	1076	1.73	6026	1136	1.55
0	7965	1062	2.20	7433	1123	1.94	7067	1186	1.75
5	8384	1106	2.22	7824	1170	1.96	7439	1235	1.77
17	13471	1073	3.68	12571	1134	3.25	11953	1198	2.92
23	18977	2109	2.64	17709	2230	2.33	16838	2355	2.10
32	29569	3145	2.76	27593	3325	2.43	26236	3511	2.19
41	20527	2054	2.93	19156	2171	2.59	18213	2293	2.33
47	11486	962	3.50	10718	1017	3.09	10191	1074	2.78

Cooling Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	70/67			75/64			80/67		
	TC	PI	EER	TC	PI	EER	TC	PI	EER
	Btu/h	W		Btu/h	W		Btu/h	W	
14	13068	589	22.20	13264	603	21.98	13529	621	21.77
23	22717	1073	21.17	23058	1100	20.96	23519	1133	20.76
32	14519	693	20.97	14737	710	20.76	15032	731	20.56
50	6178	305	20.24	6270	313	20.04	6396	322	19.85
65	7001	498	14.04	7106	511	13.91	7248	526	13.77
75	7652	609	12.57	7767	624	12.44	7922	643	12.32
85	8303	719	11.54	8427	737	11.43	8596	760	11.32
95	8825	763	11.57	8957	782	11.45	9137	806	11.34
105	8566	850	10.07	8695	872	9.97	8869	898	9.88
110	7901	841	9.39	8020	862	9.30	8180	888	9.21
115	7237	832	8.70	7345	852	8.62	7492	878	8.53

Capacity and power usage are measured under the assumption of indoor humidity of 46%

* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit

9000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2HEB / USYM09UCDSA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Wired Controller

Controller must be ordered separately.

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.
Uses wind baffle QAWB37A

Built-in WiFi

Supply Plenum

UAPT0912A

Filter Box

UAMFB0912A

Operating Range	Cooling w/Wind Baffle °F (°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	9,000
	Capacity Range Btu/hr	3,100~12,000
	SEER2/EER2	18.0/11.5
	Rated Power Input W	710
	Moisture Removal Pt./hr	2.5
Heating	Rated Heating Capacity 47°F Btu/hr	10,000
	Heating Capacity Range Btu/hr	3,100~18,000
	HSPF2 (IV)/HSPF2 (V)	9.5/7.6
	Rated Power Input W	910
Outdoor Unit	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	15
	Minimum Circuit AmpA	13
	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	27 1/2 x 35 x 13 7/8 (697 x 890 x 353)
	Carton Dimension: H x W x D in (mm)	30 3/4 x 42 3/8 x 18 1/8 (780 x 1076 x 460)
	Weight Ship/Net - lbs (kg)	115.5/98.3 (52.4/44.6)
	Base Pan Heater	Built-in
Indoor Unit	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low/Quiet)	424/353/294/235/176
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	880/800/720/640/560
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	44/41/38/35/32
	Dimension: H x W x D in (mm)	9 3/4 x 27 1/2 x 27 1/2 (248 x 700 x 700)
	Carton Dimension: H x W x D in (mm)	13 1/2 x 37 1/2 x 35 1/2 (340 x 950 x 900)
	Weight Ship/Net - lbs (kg)	90.4/63.1 (41/28.6)
	Max. External Static Pressure in.W.G (Pa)	0.6 (150)
	Internal Condensate Pump	Standard
	Drain Pipe Size O.D in	5/8
	Max. Drain-lift height in (mm)	39 3/8 (1000)
Piping	Line Size: Liquid (Suction) in.	1/4 (3/8)
	IDU Flare Size: Liquid (Suction) in.	1/4 (3/8)
	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	Lineset Adapter Required	1/2 to 3/8*
	Refrigerant (Factory Charge Oz.)	R410A (56.8)
	Max. Line Length/Height Ft (mm)	50/33 (15/10)

*Adapter shipped with outdoor unit. Install on outdoor unit.

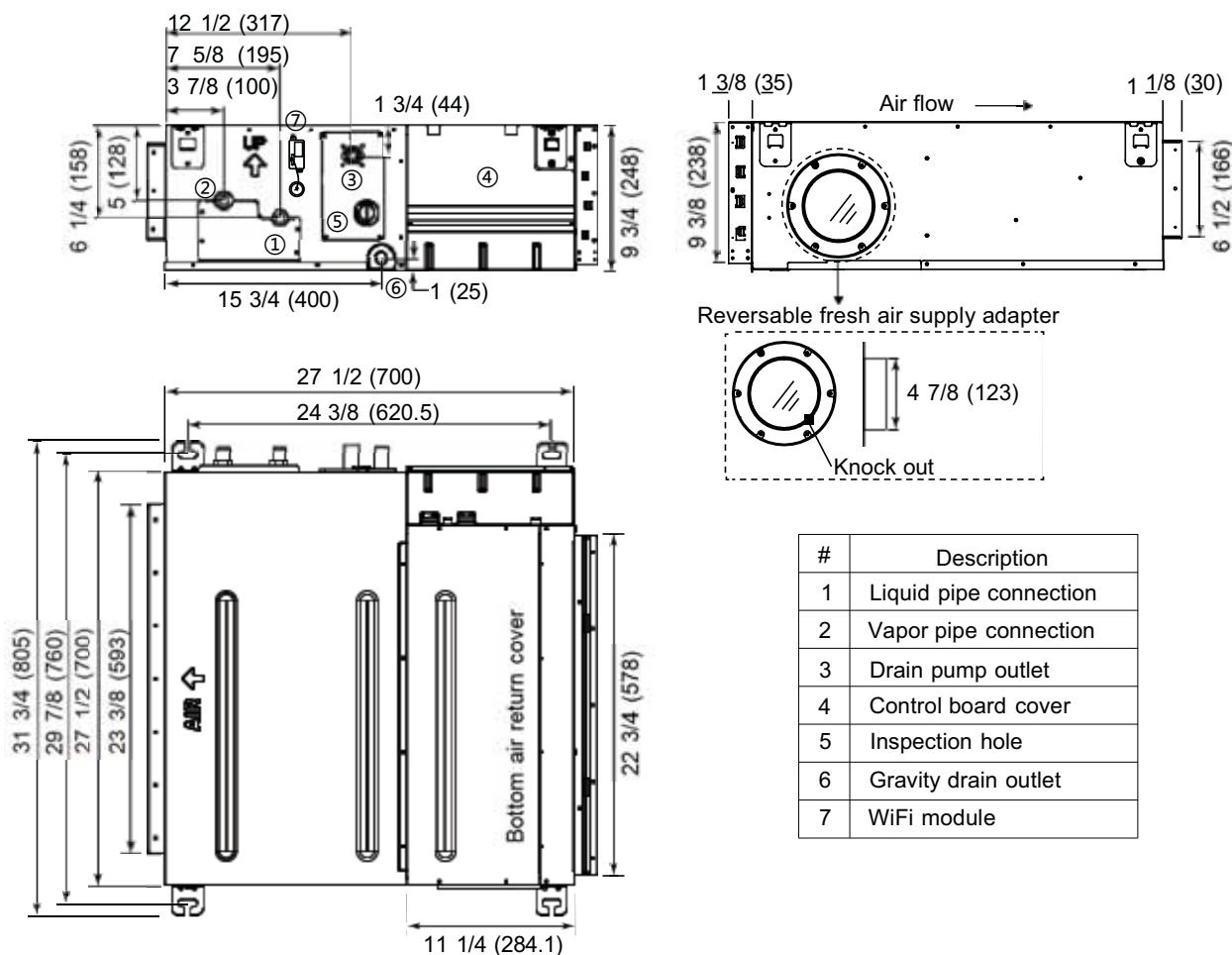


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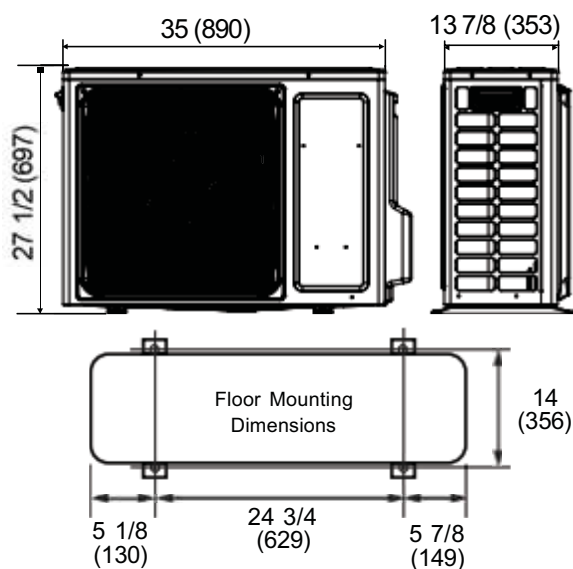


9000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2HEB / USYM09UCDSA

INDOOR UNIT



OUTDOOR UNIT



9000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U09EH2HEB / USYM09UCDSA

Heating Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	60			70			80		
	Capacity	Power Input	COP	Capacity	Power Input	COP	Capacity	Power Input	COP
	Btu/h	W		Btu/h	W		Btu/h	W	
-31	4464	754	1.73	4058	794	1.50	3734	834	1.31
-22	5073	820	1.81	4612	854	1.58	4289	888	1.42
-15	5431	878	1.81	5068	928	1.60	4819	980	1.44
-4	6566	918	2.10	6127	970	1.85	5826	1025	1.67
0	7701	958	2.36	7186	1012	2.08	6833	1069	1.87
5	8106	998	2.38	7564	1055	2.10	7192	1114	1.89
17	13269	968	4.02	12382	1023	3.55	11773	1080	3.19
23	18837	2057	2.68	17579	2174	2.37	16714	2296	2.13
32	29569	3145	2.76	27593	3325	2.43	26236	3511	2.19
41	20337	2006	2.97	18978	2121	2.62	18044	2240	2.36
47	11104	867	3.75	10362	917	3.31	9852	968	2.98

Cooling Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	70/67			75/64			80/67		
	TC	PI	EER	TC	PI	EER	TC	PI	EER
	Btu/h	W		Btu/h	W		Btu/h	W	
14	13054	573	22.77	13250	588	22.55	13515	605	22.33
23	22717	1073	21.17	23058	1100	20.96	23519	1133	20.76
32	14505	674	21.51	14722	691	21.30	15017	712	21.09
50	6148	269	22.84	6240	276	22.62	6365	284	22.40
65	6968	440	15.85	7072	451	15.69	7214	464	15.54
75	7615	537	14.18	7730	551	14.04	7884	567	13.90
85	8263	635	13.02	8387	650	12.89	8555	670	12.77
95	8783	673	13.05	8915	690	12.92	9093	711	12.80
105	8525	750	11.36	8653	769	11.25	8826	792	11.14
110	7864	742	10.60	7982	760	10.50	8141	783	10.39
115	7202	734	9.82	7310	752	9.72	7456	774	9.63

Capacity and power usage are measured under the assumption of indoor humidity of 46%

* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit

12000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2HEB / AW12EH2HEB

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Motion Sense Remote (WJ26X27153)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.
Uses wind baffle QAWB37A

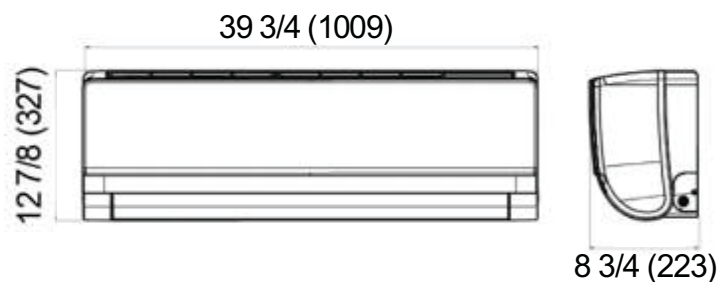
Built-in Features

- WK-B wired controller adapter
- WiFi
- Occupancy sensor

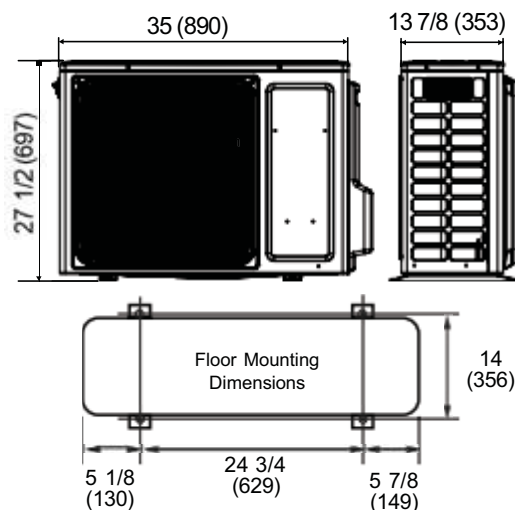
Operating Range	Cooling w/Wind Baffle °F(°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	12,000
	Capacity Range Btu/hr	3,100~15,000
	SEER2/EER2	27.5/15.0
	Rated Power Input W	800
	Moisture Removal Pt./hr	3.4
Heating	Rated Heating Capacity 47°F Btu/hr	14,500
	Heating Capacity Range Btu/hr	3,100~22,000
	HSPF2 (IV)/HSPF2 (V)	12.5/10.0
	Rated Power Input W	1,400
Outdoor Unit	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	20
	Minimum Circuit AmpA	14
	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	27 1/2 x 35 x 13 7/8 (697 x 890 x 353)
	Carton Dimension: H x W x D in (mm)	30 3/4 x 42 3/8 x 18 1/8 (780 x 1076 x 460)
	Weight Ship/Net - lbs (kg)	124.8/107.6 (56.6/48.8)
	Base Pan Heater	Built-in
Indoor Unit	Fan Speed Stages	5 + Auto
	Cooling Airflow CFM (Turbo/High/Med/Low/Quiet)	580/524/430/334/324
	Heating Airflow CFM (Turbo/High/Med/Low/Quiet)	597/524/430/344/324
	Cooling Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1200/1100/900/700/650
	Heating Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1240/1000/850/700/600
	Indoor Sound Level dB Cooling (Turbo/High/ Med/Low/Quiet)	46/42/37/31/27
	Indoor Sound Level dB Heating (Turbo/High/ Med/Low/Quiet)	48/45/39/32/28
	Dimension: H x W x D in (mm)	12 7/8 x 39 3/4 x 8 3/4 (327 x 1009 x 223)
	Carton Dimension: H x W x D in (mm)	16 x 42 3/4 x 11 5/8 (405 x 1085 x 296)
	Weight Ship/Net - lbs (kg)	35.7/27.8 (16.2/12.6)
Piping	Drainpipe Size O.D. in	5/8
	Line Size: Liquid (Suction) in.	1/4 (1/2)
	IDU Flare Size: Liquid (Suction) in.	1/4 (1/2)
	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (62.1)
	Max. Line Length/Height Ft (mm)	50/33 (15/10)

12000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2HEB / AW12EH2HEB

INDOOR UNIT



OUTDOOR UNIT



Heating Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature								
	60°F (16°C)			70°F (21°C)			77°F (25°C)		
	Maximum Capacity (Btu/h)	Power Usage (w)	COP	Maximum Capacity (Btu/h)	Power Usage (w)	COP	Maximum Capacity (Btu/h)	Power Usage (w)	COP
-31°F (-35°C)	6,700	1,600	1.23	6,900	1,660	1.22	7,000	1,700	1.21
-22°F (-30°C)	9,500	1,700	1.64	12,400	1,850	1.49	9,600	1,900	1.48
-15°F (-26°C)	11,200	1,780	1.84	10,500	1,950	1.58	9,800	2,030	1.41
-4°F (-20°C)	14,000	1,950	2.10	13,000	2,200	1.73	12,000	2,350	1.5
5°F (-15°C)	16,200	2,180	2.18	14,900	2,300	1.90	13,800	2,400	1.69
17°F (-8°C)	16,000	2,100	2.23	14,400	2,200	1.92	13,500	2,300	1.72
47°F (8°C)	16,800	2,050	2.40	15,200	2,100	2.12	14,000	2,160	1.9

Cooling Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature								
	70°F (21°C)			75°F (24°C)			80°F (27°C)		
	Maximum Capacity (Btu/h)	Power Usage (w)	EER	Maximum Capacity (Btu/h)	Power Usage (w)	EER	Maximum Capacity (Btu/h)	Power Usage (w)	EER
14°F (-10°C)*	14,423	1,026	14.06	15,050	988	15.24	15,677	950	16.51
32°F (0°C)	14,219	1,036	13.72	14,837	998	14.87	15,456	960	16.11
50°F (10°C)	14,015	1,047	13.38	14,624	1,008	14.50	15,234	970	15.71
65°F (18°C)	13,879	1,058	13.12	14,482	1,019	14.22	15,086	980	15.40
75°F (24°C)	13,743	1,069	12.86	14,340	1,029	13.93	14,938	990	15.09
85°F (29°C)	13,607	1,080	12.60	14,198	1,040	13.66	14,790	1,000	14.80
95°F (35°C)	12,880	1,058	12.17	13,440	1,019	13.19	14,000	980	14.29
105°F (41°C)	12,494	1,069	11.69	13,037	1,029	12.66	13,580	990	13.72
115°F (46°C)	12,236	1,080	11.33	12,768	1,040	12.28	13,300	1,000	13.31

Capacity and power usage are measured under the assumption of indoor humidity of 46%

* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit

12000 BTU/HR COMPACT CASSETTE TYPE INDOOR INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2HEB / AB12SC2VHA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Standard Remote Control (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB37A

Panel

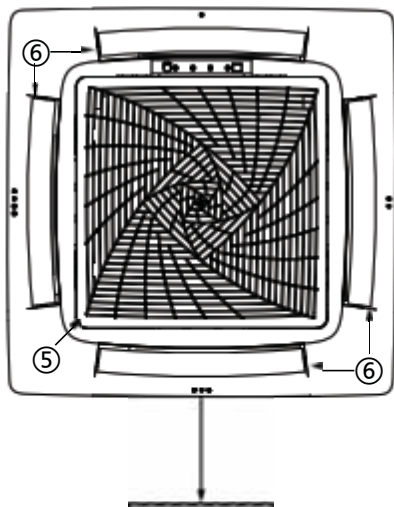
PB-700KB is required to complete the installation and it must be ordered separately

Operating Range	Cooling °F (°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	12,000
	Capacity Range Btu/hr	3,100~13,600
	SEER2/EER2	20.5/12.5
	Rated Power Input W	950
Heating	Moisture Removal Pt./hr	3.2
	Rated Heating Capacity 47°F Btu/hr	12,400
	Heating Capacity Range Btu/hr	3,100~21,000
	HSPF2 (IV)/HSPF2 (V)	8.5/6.5
Outdoor Unit	Rated Power Input W	1,460
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	20
	Minimum Circuit AmpA	14
Indoor Unit	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	27 1/2 x 35 x 13 7/8 (697 x 890 x 353)
	Carton Dimension: H x W x D in (mm)	30 3/4 x 42 3/8 x 18 1/8 (780 x 1076 x 460)
	Weight Ship/Net - lbs (kg)	124.8/107.6 (56.6/48.8)
Indoor Unit	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low/ Quiet)	410/365/305/265/205
	Indoor Motor Speed RPM (Turbo/High/Med/Low/ Quiet)	830/760/690/620/560
	Indoor Sound Level dB (Turbo/High/Med/Low/ Quiet)	42/40/36/32/25
Grille	Dimension: H x W x D in (mm)	10 1/4 x 22 7/16 x 22 7/16 (260 x 570 x 570)
	Carton Dimension: H x W x D in (mm)	15 x 28 1/4 x 26 3/4 (380 x 718 x 680)
	Weight Ship/Net - lbs (kg)	48.5/40.8 (22/18.5)
	Condensate Pump	Standard
Piping	Drain Pipe Size O.D in	1 1/4
	Max. Drain-Lift height in(mm)	27 9/16 (700)
	Model Number	PB-700KB
	Weight Ship/Net - lbs (kg)	10.6/6.2 (4.8/2.8)
Piping	Line Size: Liquid (Suction) in.	1/4 (3/8)
	IDU Flare Size: Liquid (Suction) in.	1/4 (3/8)
	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	Lineset Adapter Required	1/2 to 3/8*
Piping	Refrigerant (Factory Charge Oz.)	R410A (62.1)
	Max. Line Length/Height Ft (mm)	50/33 (15/10)

*Adapter shipped with outdoor unit. Install on outdoor unit.

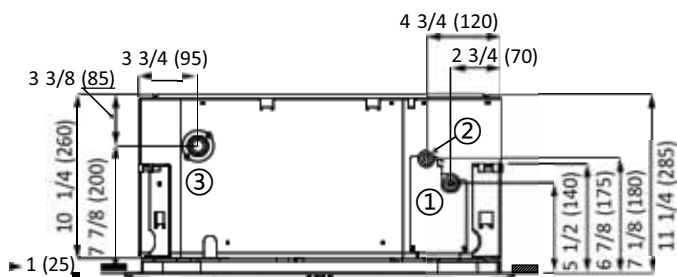
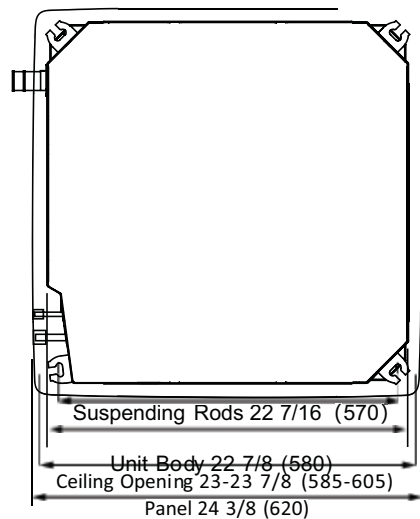
12000 BTU/HR COMPACT CASSETTE TYPE INDOOR INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2HEB / AB12SC2VHA

INDOOR UNIT

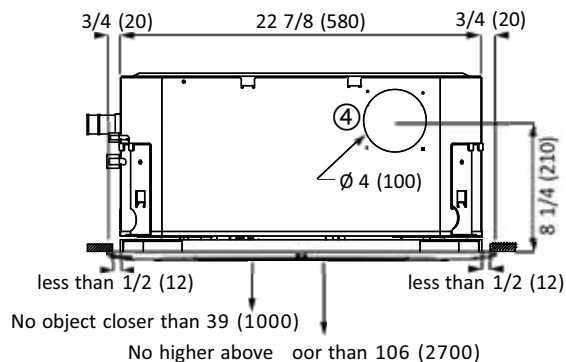


#	Part Name
1	Vapor Pipe
2	Liquid Pipe
3	Drain Pump Outlet
4	Fresh Air Inlet
5	Air Return Grille
6	Air Supply

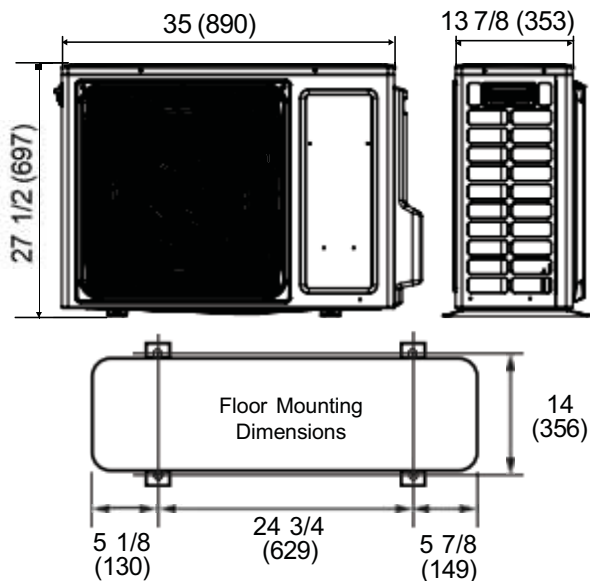
More than 59 (1500) to wall on all sides



1 inch recess between ceiling surface and bottom of unit without panel on.



OUTDOOR UNIT



12000 BTU/HR COMPACT CASSETTE TYPE INDOOR INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2HEB / AB12SC2VHA

Heating Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	60			70			80		
	Capacity	Power Input	COP	Capacity	Power Input	COP	Capacity	Power Input	COP
	Btu/h	W		Btu/h	W		Btu/h	W	
-31	5552	1197	1.36	5047	1260	1.17	4644	1323	1.03
-22	6309	1300	1.42	5736	1355	1.24	5334	1409	1.11
-15	6754	1393	1.42	6303	1472	1.25	5993	1555	1.13
-4	8166	1456	1.64	7620	1539	1.45	7245	1626	1.31
0	9577	1520	1.85	8937	1606	1.63	8498	1696	1.47
5	10081	1583	1.87	9408	1673	1.65	8945	1767	1.48
17	14701	1535	2.81	13719	1623	2.48	13044	1714	2.23
23	19825	2340	2.48	18500	2474	2.19	17590	2613	1.97
32	29569	3145	2.76	27593	3325	2.43	26236	3511	2.19
41	21689	2261	2.81	20240	2390	2.48	19245	2524	2.23
47	13810	1376	2.94	12887	1455	2.60	12253	1536	2.34

Cooling Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	70/67			75/64			80/67		
	TC	PI	EER	TC	PI	EER	TC	PI	EER
	Btu/h	W		Btu/h	W		Btu/h	W	
14	14076	612	22.99	14288	628	22.76	14573	647	22.54
23	22717	1073	21.17	23058	1100	20.96	23519	1133	20.76
32	15641	720	21.71	15875	738	21.50	16193	761	21.29
50	8408	361	23.30	8535	370	23.08	8705	381	22.85
65	9530	589	16.17	9672	604	16.01	9866	622	15.86
75	10415	720	14.47	10571	738	14.33	10783	760	14.19
85	11301	851	13.29	11470	872	13.16	11700	898	13.03
95	12012	902	13.32	12192	925	13.19	12436	952	13.06
105	11660	1005	11.60	11835	1031	11.48	12071	1061	11.37
110	10755	994	10.82	10916	1019	10.71	11134	1050	10.61
115	9850	983	10.02	9998	1008	9.92	10198	1038	9.82

Capacity and power usage are measured under the assumption of indoor humidity of 46%

* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit



12000 BTU/HR FLOOR CONSOLE INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2HEB / USYF12UCDWA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Standard Remote Control (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.
Uses wind baffle QAWB37A

Built-in WiFi

Operating Range	Cooling °F (°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	11,600
	Capacity Range Btu/hr	3,100~13,600
	SEER2/EER2	20.0/12.5
	Rated Power Input W	910
Heating	Moisture Removal Pt./hr	3.2
	Rated Heating Capacity 47°F Btu/hr	12,800
	Heating Capacity Range Btu/hr	3,100~21,000
	HSPF2 (IV)/HSPF2 (V)	8.5/6.4
Outdoor Unit	Rated Power Input W	1,480
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	20
	Minimum Circuit AmpA	14
	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	27 1/2 x 35 x 13 7/8 (697 x 890 x 353)
Indoor Unit	Carton Dimension: H x W x D in (mm)	30 3/4 x 42 3/8 x 18 1/8 (780 x 1076 x 460)
	Weight Ship/Net - lbs (kg)	124.8/107.6 (56.6/48.8)
	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low/Quiet)	294/264/235/205/176
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	700/590/510/440/390
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	45/42/39/36/33
Piping	Dimension: H x W x D in (mm)	23 3/4 x 27 1/2 x 8 1/4 (600 x 700 x 210)
	Carton Dimension: H x W x D in (mm)	27 1/2 x 30 3/4 x 12 (695 x 783 x 303)
	Weight Ship/Net - lbs (kg)	35.7/27.8 (16.2/12.6)
	Drain Pipe Size O.D in	5/8
	Line Size: Liquid (Suction) in.	1/4 (3/8)
	IDU Flare Size: Liquid (Suction) in.	1/4 (3/8)
Piping	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	ODU Adapter Required	1/2 to 3/8*
	Refrigerant (Factory Charge Oz.)	R410A (62.1)
Piping	Max. Line Length/Height Ft (mm)	50/33 (15/10)

*Adapter shipped with outdoor unit. Install on outdoor unit.

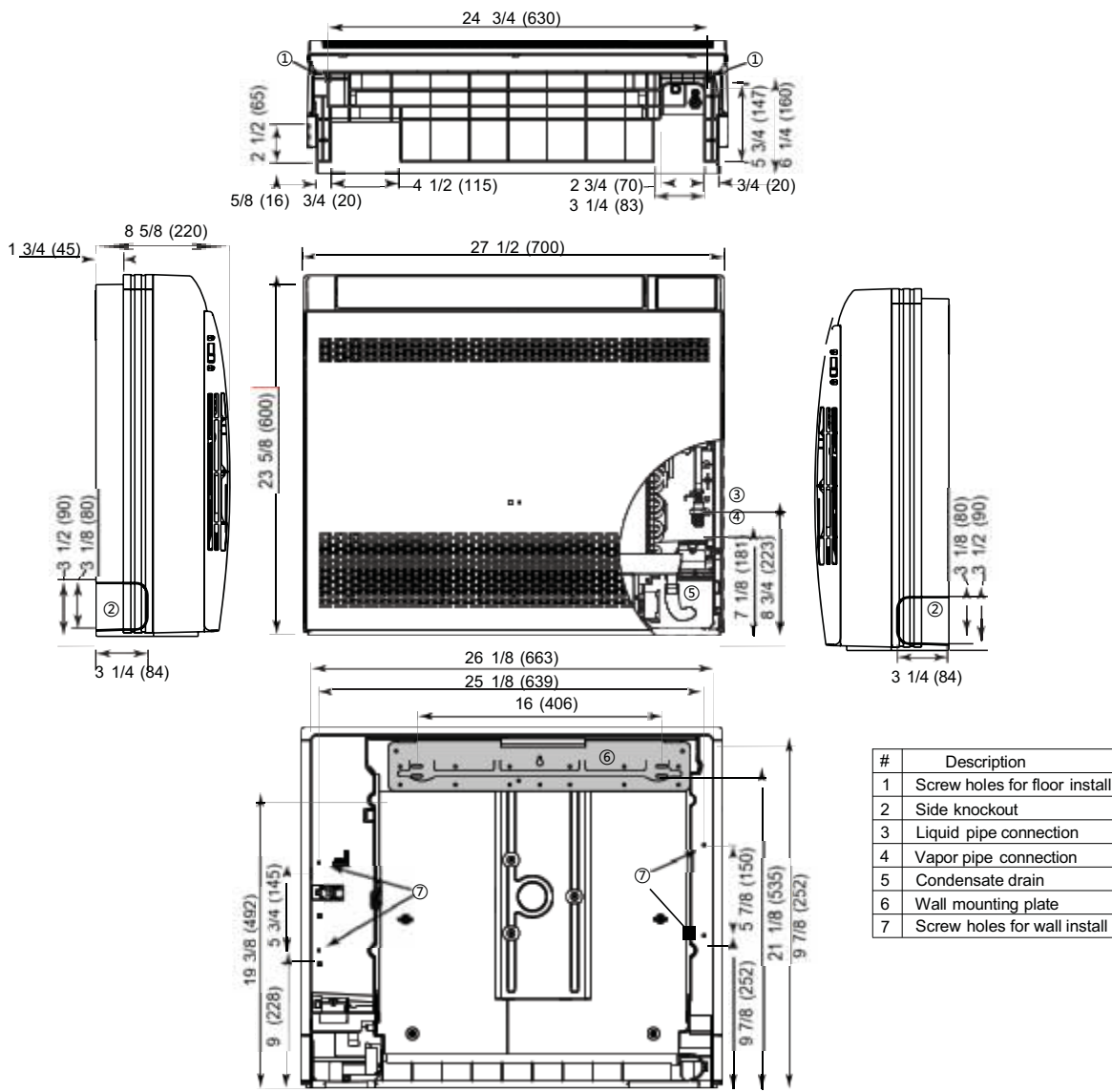


For more information visit us:
GEappliancesAirAndWater.com

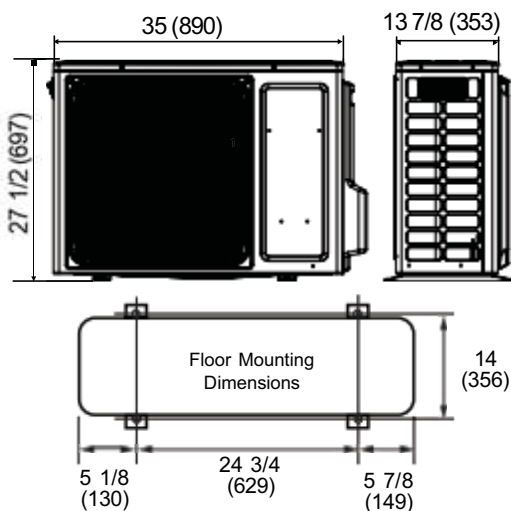


12000 BTU/HR FLOOR CONSOLE INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2HEB / USYF12UCDWA

INDOOR UNIT



OUTDOOR UNIT



12000 BTU/HR FLOOR CONSOLE INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2HEB / USYF12UCDWA

Heating Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	60			70			80		
	Capacity	Power Input	COP	Capacity	Power Input	COP	Capacity	Power Input	COP
	Btu/h	W		Btu/h	W		Btu/h	W	
-31	5591	1215	1.35	5083	1279	1.16	4676	1343	1.02
-22	6353	1320	1.41	5776	1375	1.23	5372	1430	1.10
-15	6802	1414	1.41	6347	1495	1.24	6035	1578	1.12
-4	8223	1478	1.63	7673	1563	1.44	7296	1650	1.30
0	9644	1543	1.83	9000	1631	1.62	8557	1722	1.46
5	10152	1607	1.85	9473	1699	1.63	9007	1794	1.47
17	14752	1559	2.77	13766	1648	2.45	13089	1740	2.20
23	19860	2352	2.47	18533	2486	2.18	17622	2626	1.97
32	29569	3145	2.76	27593	3325	2.43	26236	3511	2.19
41	21738	2271	2.80	20285	2401	2.48	19287	2535	2.23
47	13906	1397	2.92	12977	1477	2.58	12339	1560	2.32

Cooling Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	70/67			75/64			80/67		
	TC	PI	EER	TC	PI	EER	TC	PI	EER
	Btu/h	W		Btu/h	W		Btu/h	W	
14	13885	606	22.90	14093	621	22.68	14375	640	22.46
23	22717	1073	21.17	23058	1100	20.96	23519	1133	20.76
32	15428	713	21.63	15659	731	21.42	15972	753	21.21
50	7985	346	23.05	8105	355	22.83	8267	366	22.60
65	9050	566	15.99	9185	580	15.84	9369	597	15.68
75	9891	691	14.31	10039	708	14.17	10240	730	14.03
85	10732	817	13.14	10893	837	13.01	11111	862	12.89
95	11407	866	13.17	11578	888	13.04	11810	914	12.92
105	11072	965	11.47	11238	989	11.36	11463	1019	11.25
110	10213	955	10.70	10366	978	10.59	10574	1008	10.49
115	9354	944	9.91	9494	968	9.81	9684	997	9.72

Capacity and power usage are measured under the assumption of indoor humidity of 46%

* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit

12000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2HEB / USYM12UCDSA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Wired Controller

Controller must be ordered separately.

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB37A

Built-in WiFi

Supply Plenum

UAPT0912A

Filter Box

UAMFB0912A

Operating Range	Cooling w/Wind Baffle °F (°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	12,000
	Capacity Range Btu/hr	3,100~13,600
	SEER2/EER2	18.0/11.7
	Rated Power Input W	950
	Moisture Removal Pt./hr	3.2
Heating	Rated Heating Capacity 47°F Btu/hr	14,800
	Heating Capacity Range Btu/hr	3,100~21,000
	HSPF2 (IV)/HSPF2 (V)	8.5/6.7
	Rated Power Input W	1,500
Outdoor Unit	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	20
	Minimum Circuit AmpA	14
	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	27 1/2 x 35 x 13 7/8 (697 x 890 x 353)
	Carton Dimension: H x W x D in (mm)	30 3/4 x 42 3/8 x 18 1/8 (780 x 1076 x 460)
	Weight Ship/Net - lbs (kg)	124.8/107.6 (56.6/48.8)
	Base Pan Heater	Built-in
Indoor Unit	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low/Quiet)	494/424/353/294/235
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	950/870/780/680/600
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	47/44/41/38/35
	Dimension: H x W x D in (mm)	9 3/4 x 27 1/2 x 27 1/2 (248 x 700 x 700)
	Carton Dimension: H x W x D in (mm)	13 1/2 x 37 1/2 x 35 1/2 (340 x 950 x 900)
	Weight Ship/Net - lbs (kg)	90.4/63.1 (41/28.6)
	Max. External Static Pressure in.W.G (Pa)	0.6 (150)
	Internal Condensate Pump	Standard
	Drain Pipe Size O.D in	5/8
	Max. Drain-lift height in (mm)	39 3/8 (1000)
Piping	Line Size: Liquid (Suction) in.	1/4 (3/8)
	IDU Flare Size: Liquid (Suction) in.	1/4 (3/8)
	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	Lineset Adapter Required	1/2 to 3/8*
	Refrigerant (Factory Charge Oz.)	R410A (62.1)
	Max. Line Length/Height Ft (mm)	50/33 (15/10)

*Adapter shipped with outdoor unit. Install on outdoor unit.

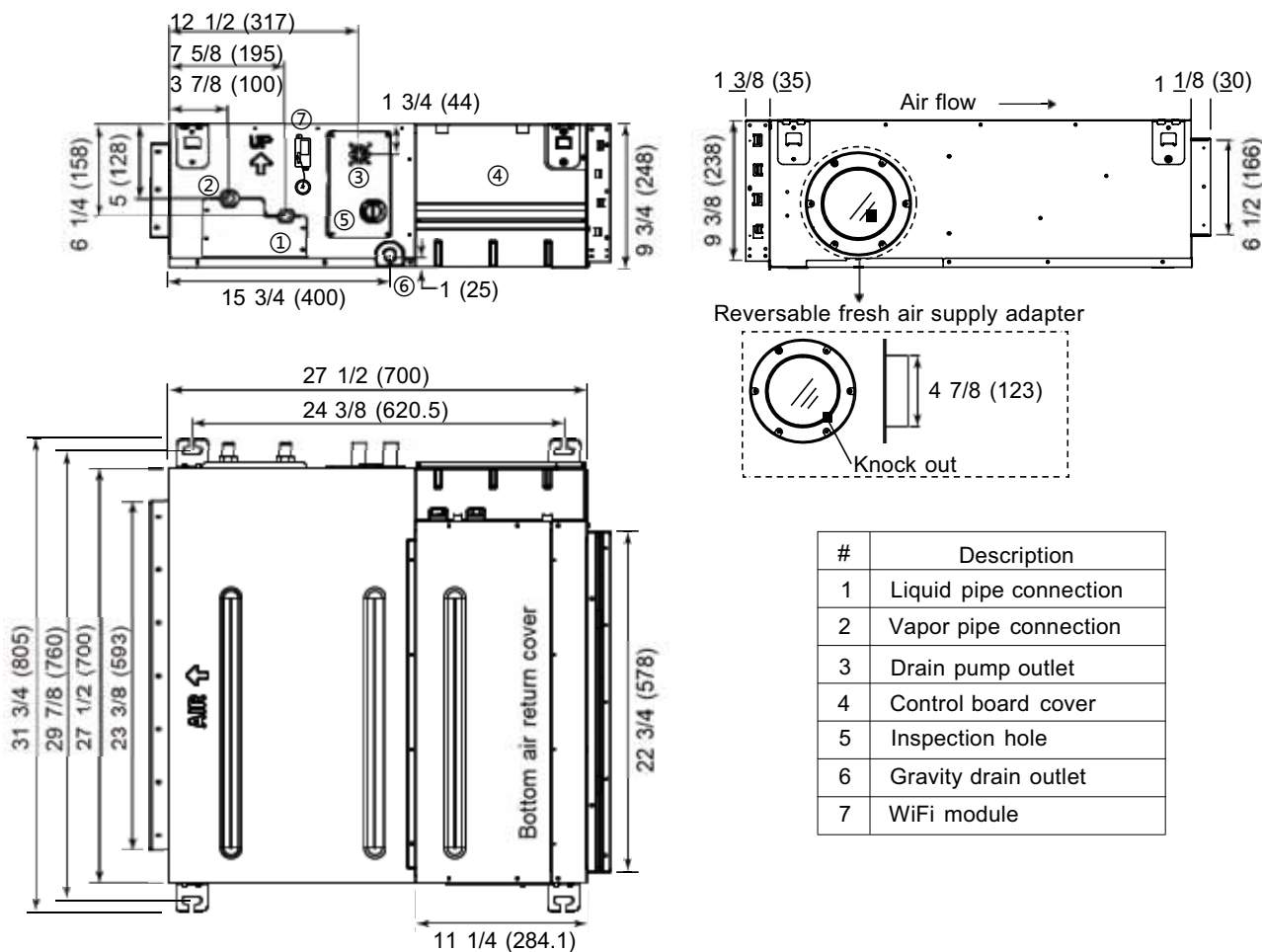


For more information visit us:
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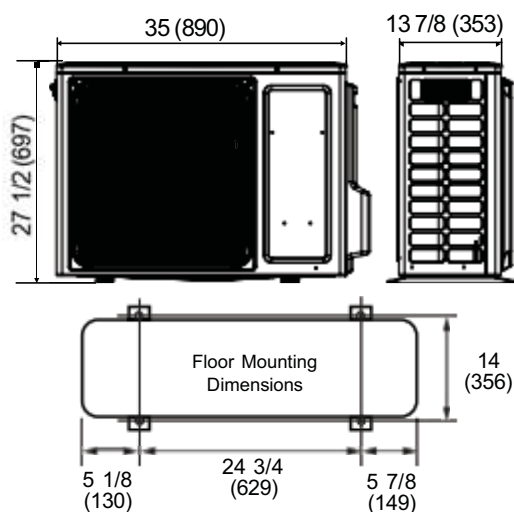


12000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2HEB / USYM12UCDSA

INDOOR UNIT



OUTDOOR UNIT



12000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U12EH2HEB / USYM12UCDSA

Heating Capacity Data

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB/WB)								
	60			70			80		
	Capacity	Power Input	COP	Capacity	Power Input	COP	Capacity	Power Input	COP
	Btu/h	W		Btu/h	W		Btu/h	W	
-31	6452	1235	1.53	5865	1299.66	1.32	5396	1365	1.16
-22	7332	1342	1.60	6665	1397.49	1.40	6199	1453	1.25
-15	7849	1437	1.60	7324	1519	1.41	6964	1604	1.27
-4	9489	1502	1.85	8855	1588	1.63	8419	1677	1.47
0	11129	1568	2.08	10385	1657	1.84	9874	1750	1.65
5	11715	1633	2.10	10932	1726	1.86	10394	1823	1.67
17	15885	1584	2.94	14824	1674	2.59	14095	1768	2.34
23	20642	2365	2.56	19262	2500	2.26	18315	2640	2.03
32	29569	3145	2.76	27593	3325	2.43	26236	3511	2.19
41	22808	2283	2.93	21284	2413	2.59	20237	2548	2.33
47	16047	1420	3.31	14975	1501	2.92	14239	1585	2.63

Cooling Capacity Data

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB/WB)								
	70/67			75/64			80/67		
	TC	PI	EER	TC	PI	EER	TC	PI	EER
	Btu/h	W		Btu/h	W		Btu/h	W	
14	14024	612	22.92	14234	627	22.70	14519	646	22.48
23	22717	1073	21.17	23058	1100	20.96	23519	1133	20.76
32	15582	720	21.65	15815	738	21.44	16132	760	21.23
50	8292	359	23.08	8416	368	22.86	8584	379	22.64
65	9397	587	16.02	9538	601	15.86	9729	619	15.71
75	10270	717	14.33	10424	735	14.19	10633	757	14.05
85	11144	847	13.16	11311	868	13.03	11537	894	12.91
95	11845	898	13.19	12023	920	13.06	12263	948	12.93
105	11498	1001	11.49	11670	1026	11.37	11903	1057	11.26
110	10605	990	10.71	10764	1015	10.61	10980	1045	10.51
115	9713	979	9.92	9859	1003	9.83	10056	1033	9.73

Capacity and power usage are measured under the assumption of indoor humidity of 46%

* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit

18000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2HEB / AW18EH2HEB

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Motion Sense Remote (WJ26X27153)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.
Uses wind baffle QAWB45A

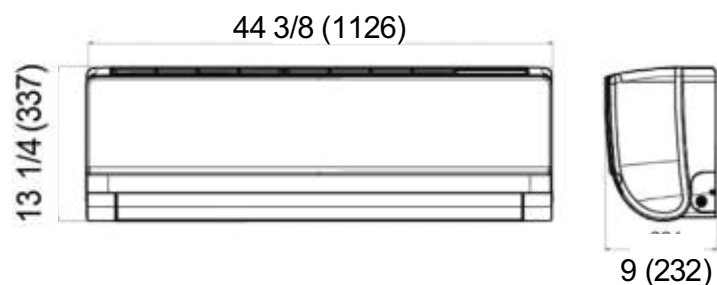
Built-in Features

- WK-B wired controller adapter
- WiFi
- Occupancy sensor

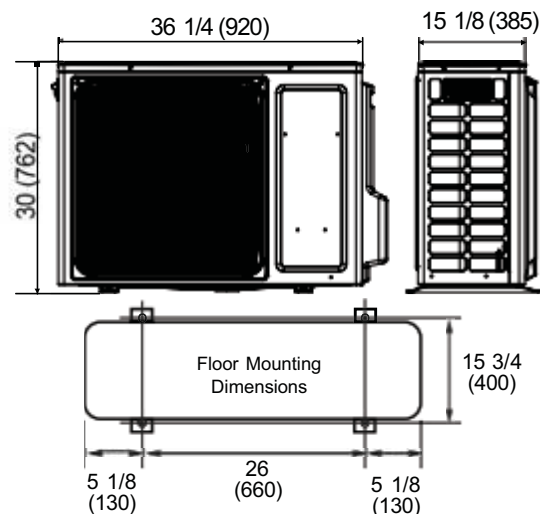
Operating Range	Cooling w/Wind Baffle °F(°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	17,800
	Capacity Range Btu/hr	8,500~21,000
	SEER2/EER2	23.0/13.0
	Rated Power Input W	1,385
	Moisture Removal Pt./hr	4.2
Heating	Rated Heating Capacity 47°F Btu/hr	20,000
	Heating Capacity Range Btu/hr	8,700~27,000
	HSPF2 (IV)/HSPF2 (V)	12.0/9.0
	Rated Power Input W	1,920
Outdoor Unit	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	30
	Minimum Circuit AmpA	20
	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	30 x 36 1/4 x 15 1/8 (762 x 920 x 385)
	Carton Dimension: H x W x D in (mm)	33 3/16 x 42 3/4 x 19 1/8 (843 x 1085 x 487)
	Weight Ship/Net - lbs (kg)	154.3/133.4 (70/60.5)
	Base Pan Heater	Built-in
Indoor Unit	Fan Speed Stages	5 + Auto
	Cooling Airflow CFM (Turbo/High/Med/Low/Quiet)	636/531/426/320/259
	Heating Airflow CFM (Turbo/High/Med/Low/Quiet)	636/541/436/330/259
	Cooling Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1250/1050/925/800/700
	Heating Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1150/1050/925/800/650
	Indoor Sound Level dB Cooling (Turbo/High/ Med/Low/Quiet)	47/41/38/35/29
	Indoor Sound Level dB Heating (Turbo/High/ Med/Low/Quiet)	51/47/44/38/32
	Dimension: H x W x D in (mm)	13 1/4 x 44 3/8 x 9 1/16 (337 x 1126 x 230)
	Carton Dimension: H x W x D in (mm)	16 1/2 x 47 1/2 x 13 1/2 (418 x 1206 x 342)
	Weight Ship/Net - lbs (kg)	45.2/36.6 (20.5/16.6)
	Drainpipe Size O.D. in	5/8
Piping	Line Size: Liquid (Suction) in.	1/4 (1/2)
	IDU Flare Size: Liquid (Suction) in.	1/4 (1/2)
	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (82.9)
	Max. Line Length/Height Ft (mm)	83/50 (25/15)

18000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2HEB / AW18EH2HEB

INDOOR UNIT



OUTDOOR UNIT



Heating Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature								
	60°F (16°C)			70°F (21°C)			77°F (25°C)		
	Maximum Capacity (Btu/h)	Power Usage (w)	COP	Maximum Capacity (Btu/h)	Power Usage (w)	COP	Maximum Capacity (Btu/h)	Power Usage (w)	COP
-31°F (-35°C)	7,600	2,300	0.97	7,400	2,450	0.89	7,200	2,560	0.82
-22°F (-30°C)	13,600	2,420	1.65	13,100	2,550	1.51	12,100	2,630	1.35
-15°F (-26°C)	15,800	2,600	1.78	14,400	2,650	1.59	13,200	2,720	1.42
-4°F (-20°C)	18,200	2,820	1.89	17,500	2,900	1.77	16,500	2,930	1.65
5°F (-15°C)	19,100	2,760	2.03	18,000	2,800	1.88	17,000	2,980	1.67
17°F (-8°C)	18,500	2,610	2.08	17,400	2,680	1.9	16,300	2,790	1.71
47°F (8°C)	18,700	2,530	2.17	17,500	2,550	2.01	16,500	2,680	1.8

Cooling Capacity Data

Outdoor Air Temp DB	Indoor Set Temperature								
	70°F (21°C)			75°F (24°C)			80°F (27°C)		
	Maximum Capacity (Btu/h)	Power Usage (w)	EER	Maximum Capacity (Btu/h)	Power Usage (w)	EER	Maximum Capacity (Btu/h)	Power Usage (w)	EER
14°F (-10°C)*	23,376	1,810	12.92	24,392	1,743	14.00	25,408	1,676	15.16
32°F (0°C)	23,045	1,829	12.60	24,047	1,761	13.65	25,049	1,693	14.79
50°F (10°C)	22,714	1,848	12.29	23,702	1,780	13.32	24,689	1,711	14.43
65°F (18°C)	22,493	1,867	12.05	23,471	1,798	13.06	24,449	1,729	14.14
75°F (24°C)	22,273	1,886	11.81	23,241	1,816	12.80	24,210	1,746	13.86
85°F (29°C)	22,052	1,905	11.58	23,011	1,835	12.54	23,970	1,764	13.59
95°F (35°C)	21,160	2,009	10.53	22,080	1,934	11.41	23,000	1,860	12.37
105°F (41°C)	20,525	2,029	10.12	21,418	1,954	10.96	22,310	1,879	11.88
115°F (46°C)	20,102	2,049	9.81	20,976	1,973	10.63	21,850	1,897	11.52

Capacity and power usage are measured under the assumption of indoor humidity of 46%

* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit

18000 BTU/HR COMPACT CASSETTE TYPE INDOOR INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2HEB / AB18SC2VHA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Standard Remote Control (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.

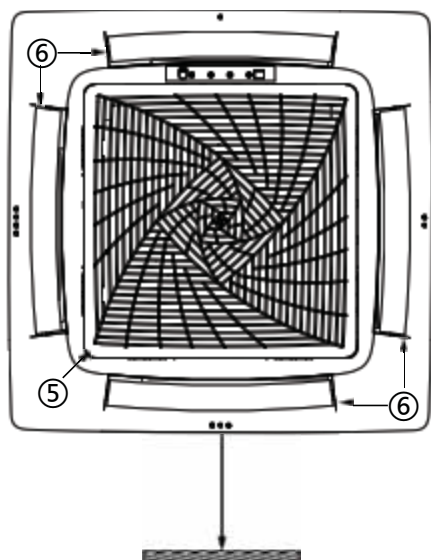
Uses wind baffle QAWB45A

Panel

PB-700KB is required to complete the installation and it must be ordered separately

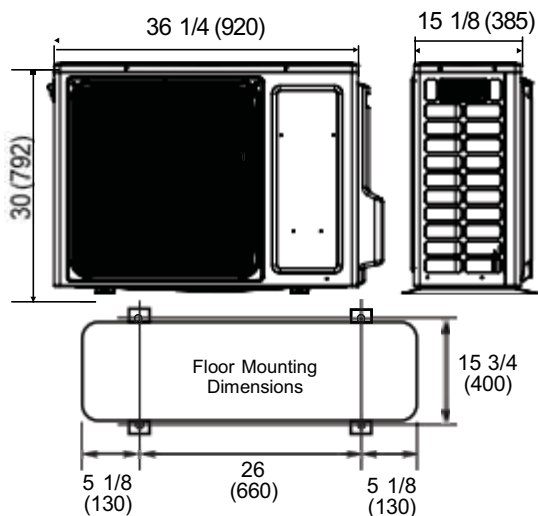
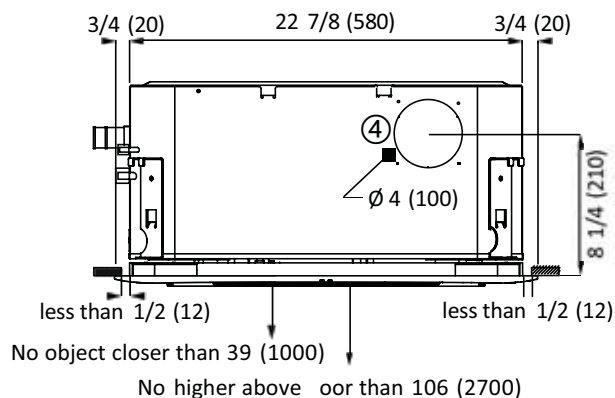
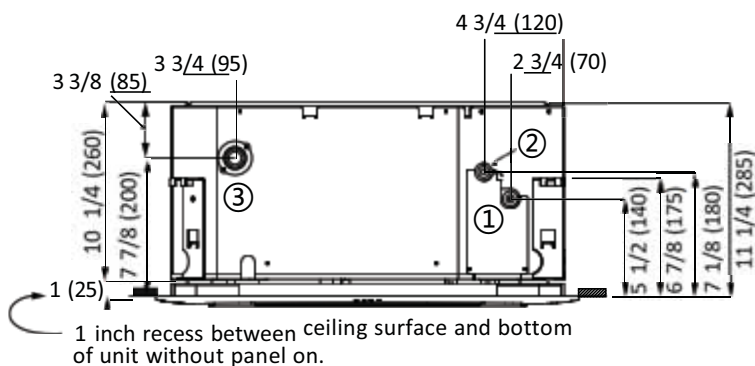
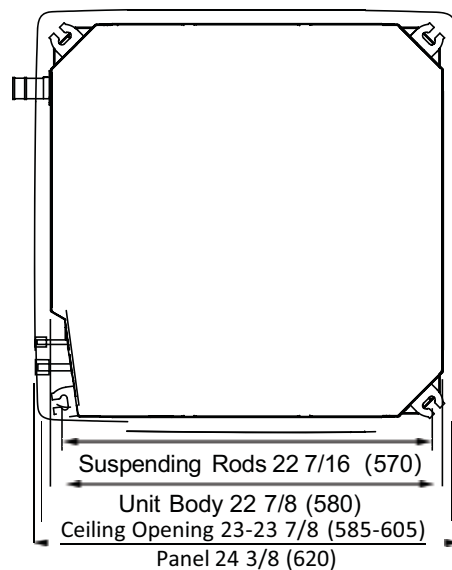
Operating Range	Cooling °F (°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	17,000
	Capacity Range Btu/hr	6,500~20,000
	SEER2/EER2	16.0/10.6
	Rated Power Input W	1,600
Heating	Moisture Removal Pt./hr	3.8
	Rated Heating Capacity 47°F Btu/hr	18,000
	Heating Capacity Range Btu/hr	5,100~22,000
	HSPF2 (IV)/HSPF2 (V)	8.0/6.3
	Rated Power Input W	2,300
Outdoor Unit	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	30
	Minimum Circuit AmpA	20
	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	30 x 36 1/4 x 15 1/8 (762 x 920 x 385)
	Carton Dimension: H x W x D in (mm)	33 3/16 x 42 3/4 x 19 1/8 (843 x 1085 x 487)
	Weight Ship/Net - lbs (kg)	154.3/133.4 (70/60.5)
Indoor Unit	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low/ Quiet)	470/410/365/295/252
	Indoor Motor Speed RPM (Turbo/High/Med/Low/ Quiet)	850/800/760/680/590
	Indoor Sound Level dB (Turbo/High/Med/Low/ Quiet)	45/42/40/36/32
	Dimension: H x W x D in (mm)	10 1/4 x 22 7/16 x 22 7/16 (260 x 570 x 570)
	Carton Dimension: H x W x D in (mm)	15 x 28 1/4 x 26 3/4 (380 x 718 x 680)
	Weight Ship/Net - lbs (kg)	48.5/40.8 (22/18.5)
	Condensate Pump	Standard
	Drain Pipe Size O.D in	1 1/4
	Max. Drain-Lift height in(mm)	27 9/16 (700)
Grille	Model Number	PB-700KB
	Weight Ship/Net - lbs (kg)	10.6/6.2 (4.8/2.8)
Piping	Line Size: Liquid (Suction) in.	1/4 (1/2)
	IDU Flare Size: Liquid (Suction) in.	1/4 (1/2)
	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (82.9)
	Max. Line Length/Height Ft (mm)	83/50 (25/15)

18000 BTU/HR COMPACT CASSETTE TYPE INDOOR INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2HEB / AB18SC2VHA



More than 59 (1500) to wall on all sides

#	Part Name
1	Vapor Pipe
2	Liquid Pipe
3	Drain Pump Outlet
4	Fresh Air Inlet
5	Air Return Grille
6	Air Supply



18000 BTU/HR COMPACT CASSETTE TYPE INDOOR INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2HEB / AB18SC2VHA

Heating Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	60			70			80		
	Capacity	Power Input	COP	Capacity	Power Input	COP	Capacity	Power Input	COP
	Btu/h	W		Btu/h	W		Btu/h	W	
-31	7893	1890	1.22	7176	1990	1.06	6602	2089	0.93
-22	8970	2054	1.28	8154	2140	1.12	7584	2225	1.00
-15	9603	2200	1.28	8961	2326	1.13	8520	2456	1.02
-4	11609	2300	1.48	10833	2431	1.31	10300	2567	1.18
0	13615	2400	1.66	12706	2537	1.47	12081	2679	1.32
5	14332	2500	1.68	13374	2643	1.48	12717	2791	1.34
17	17783	2425	2.15	16595	2563	1.90	15779	2707	1.71
23	21951	2785	2.31	20484	2944	2.04	19476	3109	1.84
32	29569	3145	2.76	27593	3325	2.43	26236	3511	2.19
41	24601	2660	2.71	22957	2812	2.39	21828	2969	2.15
47	19633	2174	2.65	18321	2298	2.34	17420	2427	2.10

Cooling Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	70/67			75/64			80/67		
	TC	PI	EER	TC	PI	EER	TC	PI	EER
	Btu/h	W		Btu/h	W		Btu/h	W	
14	15556	716	21.73	15789	734	21.52	16105	756	21.31
23	22717	1073	21.17	23058	1100	20.96	23519	1133	20.76
32	17284	842	20.52	17543	863	20.32	17894	889	20.12
50	11679	603	19.36	11854	618	19.17	12091	637	18.99
65	13236	985	13.43	13435	1010	13.30	13703	1040	13.17
75	14466	1204	12.02	14683	1234	11.90	14977	1271	11.79
85	15696	1422	11.04	15932	1457	10.93	16250	1501	10.82
95	16684	1508	11.06	16934	1546	10.96	17273	1592	10.85
105	16195	1681	9.63	16438	1723	9.54	16766	1775	9.45
110	14938	1662	8.99	15162	1704	8.90	15465	1755	8.81
115	13681	1644	8.32	13886	1685	8.24	14164	1735	8.16

Capacity and power usage are measured under the assumption of indoor humidity of 46%

* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit

18000 BTU/HR FLOOR CONSOLE INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2HEB / USYF18UCDWAA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Standard Remote Control (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.
Uses wind baffle QAWB45A

Built-in WiFi

Operating Range	Cooling °F (°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	14,800
	Capacity Range Btu/hr	6,500~18,000
	SEER2/EER2	17.0/10.0
	Rated Power Input W	1,470
Heating	Moisture Removal Pt./hr	3.8
	Rated Heating Capacity 47°F Btu/hr	17,800
	Heating Capacity Range Btu/hr	5,100~20,000
	HSPF2 (IV)/HSPF2 (V)	8.5/6.6
Outdoor Unit	Rated Power Input W	2,400
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	30
	Minimum Circuit AmpA	20
	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	30 x 36 1/4 x 15 1/8 (762 x 920 x 385)
	Carton Dimension: H x W x D in (mm)	33 3/16 x 42 3/4 x 19 1/8 (843 x 1085 x 487)
Indoor Unit	Weight Ship/Net - lbs (kg)	154.3/133.4 (70/60.5)
	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low/Quiet)	341/311/282/252/223
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	800/710/630/560/510
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	49/46/43/40/37
	Dimension: H x W x D in (mm)	23 3/4 x 27 1/2 x 8 1/4 (600 x 700 x 210)
	Carton Dimension: H x W x D in (mm)	27 1/2 x 30 3/4 x 12 (695 x 783 x 303)
Piping	Weight Ship/Net - lbs (kg)	45.2/36.6 (20.5/16.6)
	Drain Pipe Size O.D in	5/8
	Line Size: Liquid (Suction) in.	1/4 (1/2)
	IDU Flare Size: Liquid (Suction) in.	1/4 (1/2)
	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	ODU Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (82.9)
	Max. Line Length/Height Ft (mm)	83/50 (25/15)

18000 BTU/HR FLOOR CONSOLE INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2HEB / USYF18UCDWA

Heating Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	60			70			80		
	Capacity	Power Input	COP	Capacity	Power Input	COP	Capacity	Power Input	COP
	Btu/h	W		Btu/h	W		Btu/h	W	
-31	7713	1964	1.15	7012	2068	0.99	6451	2171	0.87
-22	8765	2134	1.20	7968	2223	1.05	7411	2312	0.94
-15	9383	2286	1.20	8756	2417	1.06	8326	2552	0.96
-4	11344	2390	1.39	10586	2527	1.23	10065	2668	1.11
0	13305	2494	1.56	12416	2636	1.38	11805	2784	1.24
5	14005	2598	1.58	13069	2746	1.39	12426	2900	1.26
17	17546	2520	2.04	16373	2664	1.80	15568	2813	1.62
23	21787	2833	2.25	20331	2994	1.99	19331	3162	1.79
32	29569	3145	2.76	27593	3325	2.43	26236	3511	2.19
41	24377	2702	2.64	22748	2857	2.33	21629	3016	2.10
47	19185	2259	2.49	17903	2388	2.20	17023	2522	1.98

Cooling Capacity Data

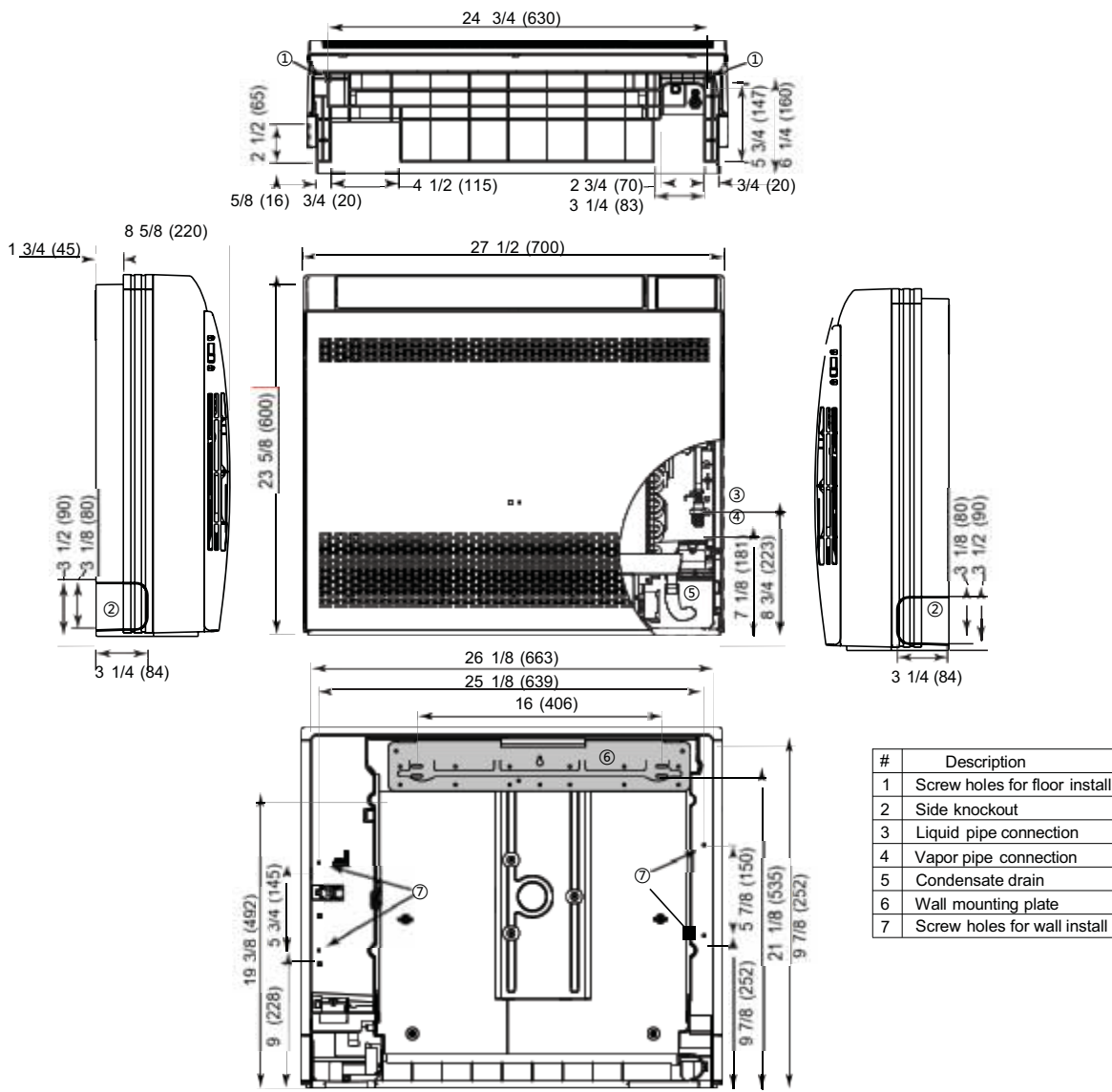
Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	70/67			75/64			80/67		
	TC	PI	EER	TC	PI	EER	TC	PI	EER
	Btu/h	W		Btu/h	W		Btu/h	W	
14	14856	696	21.34	15079	714	21.13	15381	735	20.92
23	22717	1073	21.17	23058	1100	20.96	23519	1133	20.76
32	16507	819	20.15	16754	840	19.95	17090	865	19.76
50	10133	557	18.18	10284	571	18.01	10490	588	17.83
65	11484	910	12.62	11656	933	12.49	11889	961	12.37
75	12551	1112	11.29	12739	1140	11.18	12994	1174	11.07
85	13618	1314	10.37	13822	1346	10.27	14099	1387	10.17
95	14475	1393	10.39	14692	1428	10.29	14986	1471	10.19
105	14050	1553	9.05	14261	1592	8.96	14546	1639	8.87
110	12960	1536	8.44	13154	1574	8.36	13417	1621	8.28
115	11870	1518	7.82	12048	1556	7.74	12288	1603	7.67

Capacity and power usage are measured under the assumption of indoor humidity of 46%

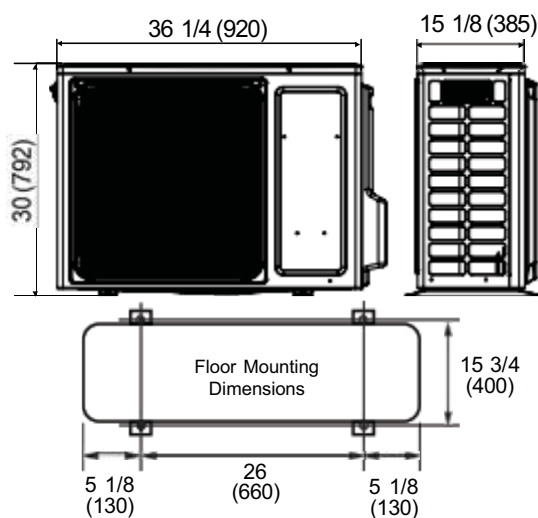
* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit

18000 BTU/HR FLOOR CONSOLE INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2HEB / USYF18UCDWA

INDOOR UNIT



OUTDOOR UNIT



18000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2HEB / USYM18UCDSA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Wired Controller

Controller must be ordered separately.

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Wind Baffle

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB45A

Built-in WiFi

Supply Plenum

UAPT1824A

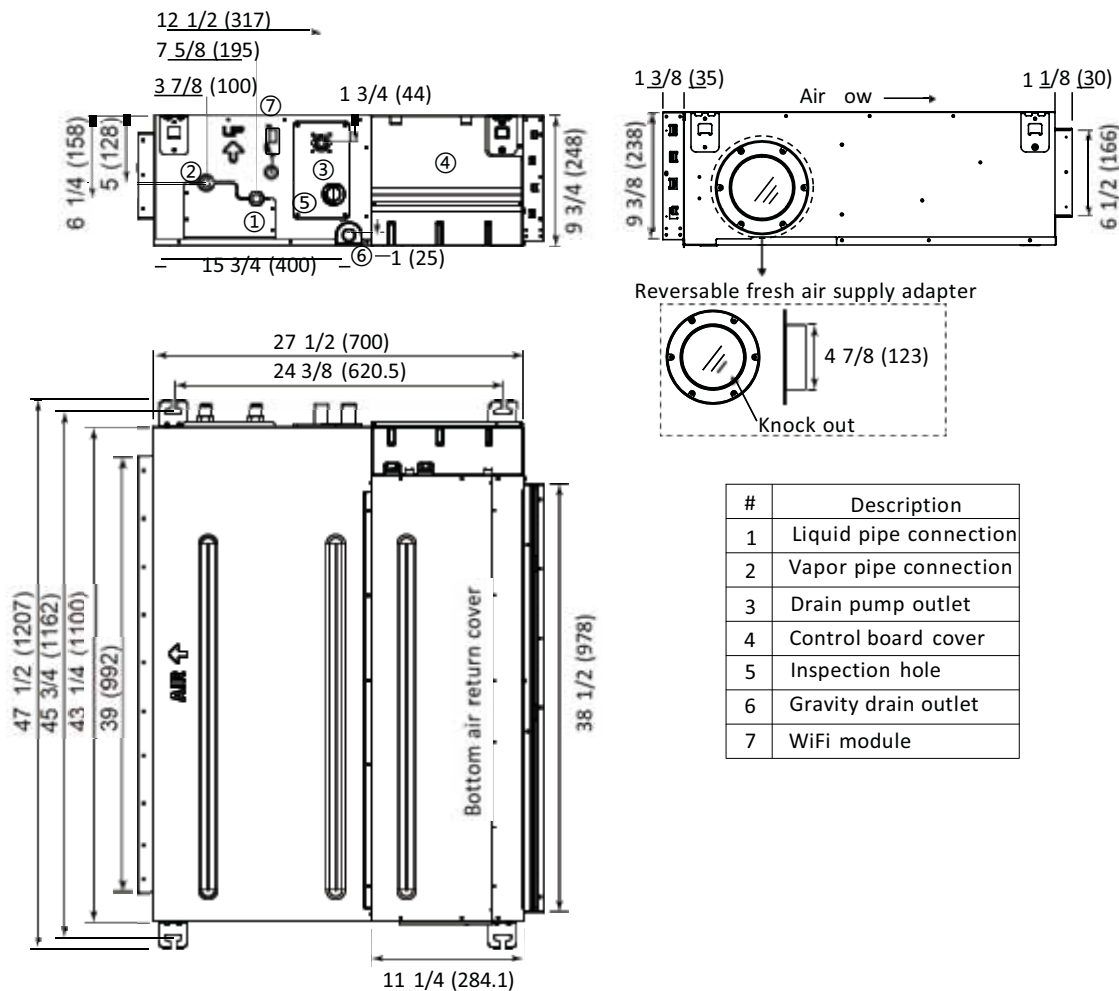
Filter Box

UAMFB1824A

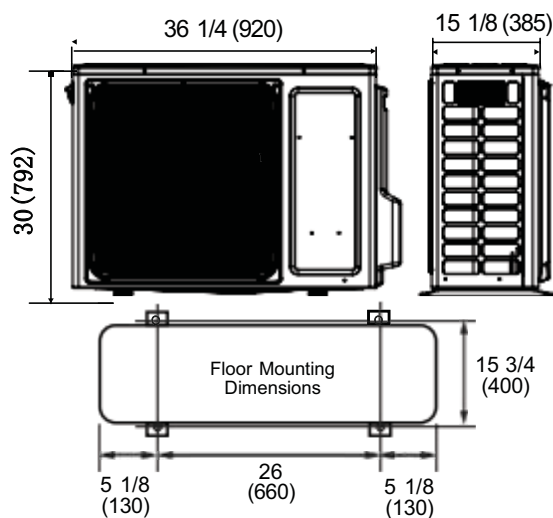
Operating Range	Cooling w/Wind Baffle °F (°C)	14~115°F (-10~46°C)
	Heating °F (°C)	-31~75°F (-35~24°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	18,000
	Capacity Range Btu/hr	6,500~23,200
	SEER2/EER2	16.2/10.5
	Rated Power Input W	1,560
	Moisture Removal Pt./hr	3.8
Heating	Rated Heating Capacity 47°F Btu/hr	20,000
	Heating Capacity Range Btu/hr	5,100~24,000
	HSPF2 (IV)/HSPF2 (V)	8.1/6.4
	Rated Power Input W	1,900
Outdoor Unit	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	30
	Minimum Circuit AmpA	20
	Outdoor Noise Level dB	56
	Dimension: H x W x D in (mm)	30 x 36 1/4 x 15 1/8 (762 x 920 x 385)
	Carton Dimension: H x W x D in (mm)	33 3/16 x 42 3/4 x 19 1/8 (843 x 1085 x 487)
	Weight Ship/Net - lbs (kg)	154.3/133.4 (70/60.5)
	Base Pan Heater	Built-in
Indoor Unit	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low/Quiet)	735/635/541/470/400
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	880/820/760/700/640
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	48/45/42/39/36
	Dimension: H x W x D in (mm)	9 3/4 x 43 1/4 x 27 1/2 (248 x 1100 x 700)
	Carton Dimension: H x W x D in (mm)	13 1/2 x 46 x 33 3/4 (340 x 1170 x 860)
	Weight Ship/Net - lbs (kg)	121.3/89.3 (55/40.5)
	Max. External Static Pressure in.W.G (Pa)	0.6 (150)
	Internal Condensate Pump	Standard
	Drain Pipe Size O.D in	5/8
Piping	Max. Drain-lift height in (mm)	39 3/8 (1000)
	Line Size: Liquid (Suction) in.	1/4 (1/2)
	IDU Flare Size: Liquid (Suction) in.	1/4 (1/2)
	ODU Port Size: Liquid (Suction) in.	1/4 (1/2)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (82.9)
	Max. Line Length/Height Ft (mm)	83/50 (25/15)

18000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2HEB / USYM18UCDSA

INDOOR UNIT



OUTDOOR UNIT



18000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U18EH2HEB / USYM18UCDSA

Heating Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	60			70			80		
	Capacity	Power Input	COP	Capacity	Power Input	COP	Capacity	Power Input	COP
	Btu/h	W		Btu/h	W		Btu/h	W	
-31	8764	1551	1.66	7967	1632	1.43	7330	1714	1.25
-22	9959	1685	1.73	9053	1755	1.51	8420	1825	1.35
-15	10661	1805	1.73	9949	1908	1.53	9460	2014	1.38
-4	12889	1887	2.00	12028	1994	1.77	11436	2106	1.59
0	15117	1969	2.25	14106	2081	1.99	13413	2198	1.79
5	15912	2051	2.27	14849	2168	2.01	14119	2289	1.81
17	18929	1989	2.79	17664	2103	2.46	16795	2220	2.22
23	22741	2567	2.60	21221	2714	2.29	20177	2866	2.06
32	29569	3145	2.76	27593	3325	2.43	26236	3511	2.19
41	25683	2464	3.05	23967	2605	2.70	22788	2751	2.43
47	21798	1783	3.58	20341	1885	3.16	19341	1991	2.85

Cooling Capacity Data

Outdoor Temperature (°F,DB)	Indoor Temperature (°F,DB/WB)								
	70/67			75/64			80/67		
	TC	PI	EER	TC	PI	EER	TC	PI	EER
	Btu/h	W		Btu/h	W		Btu/h	W	
14	15821	712	22.24	16058	729	22.02	16380	751	21.81
23	22717	1073	21.17	23058	1100	20.96	23519	1133	20.76
32	17579	837	21.00	17843	858	20.80	18200	884	20.59
50	12266	593	20.69	12450	608	20.49	12699	626	20.29
65	13902	968	14.36	14110	992	14.22	14392	1022	14.08
75	15194	1183	12.85	15422	1212	12.72	15730	1249	12.60
85	16486	1397	11.80	16733	1432	11.68	17068	1475	11.57
95	17523	1482	11.82	17786	1519	11.71	18142	1565	11.59
105	17009	1652	10.30	17264	1693	10.20	17609	1744	10.10
110	15689	1634	9.60	15924	1674	9.51	16243	1725	9.42
115	14369	1615	8.90	14584	1656	8.81	14876	1705	8.72

Capacity and power usage are measured under the assumption of indoor humidity of 46%

* Cooling Capacity under low ambient temperature below 23°F (-5°C) are tested when using wind baffle on outdoor unit

24000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / AW24TL2HFA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Motion Sense Remote (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A

Uses snow hood UAWB85A

Operating Range	Cooling w/o Wind Baffle °F(°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F(°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~46°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	24,000
	Capacity Range Btu/hr	6,000-26,000
	SEER2/EER2	21.0/11.0
	Rated Power Input W	2,180
Heating	Moisture Removal Pt./hr	6.33
	Rated Heating Capacity 47°F Btu/hr	26,000
	Heating Capacity Range Btu/hr	4,000~28,500
	HSPF2 (I)/HSPF2 (V)	10.0/8.0
Outdoor Unit	Rated Power Input W	2,130
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	25
	Minimum Circuit AmpA	21
	Outdoor Noise Level dB	60
	Dimension: H x W x D in (mm)	37 7/8 x 37 1/2 x 14 5/8 (965 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	46 3/8 x 41 3/8 x 19 1/8 (1175 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	196/158 (89/72)
	Base Pan Heater	Built-in
	Fan Speed Stages	5 + Auto
Indoor Unit	Cooling Airflow CFM (Turbo/High/Med/Low/Quiet)	810/750/635/520/440
	Heating Airflow CFM (Turbo/High/Med/Low/Quiet)	
	Cooling Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1150/1100/950/800/700
	Heating Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	
	Indoor Sound Level dB Cooling (Turbo/High/ Med/Low/Quiet)	53/52/47/42/38
	Indoor Sound Level dB Heating (Turbo/High/ Med/Low/Quiet)	
	Dimension: H x W x D in (mm)	14 1/2 x 51 7/8 x 10 7/8 (365 x 1316 x 275)
	Carton Dimension: H x W x D in (mm)	18 7/8 x 55 7/8 x 15 7/8 (478 x 1418 x 402)
	Weight Ship/Net - lbs (kg)	56.2/46.3 (25.5/21)
	Drainpipe Size O.D. in	3/4
Piping	Line Size: Liquid (Suction) in.	3/8 (5/8)
	IDU Flare Size: Liquid (Suction) in.	3/8 (5/8)
	ODU Port Size: Liquid (Suction) in.	3/8 (5/8)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (85.0)
	Max. Line Length/Height Ft (mm)	165/100 (50/30)

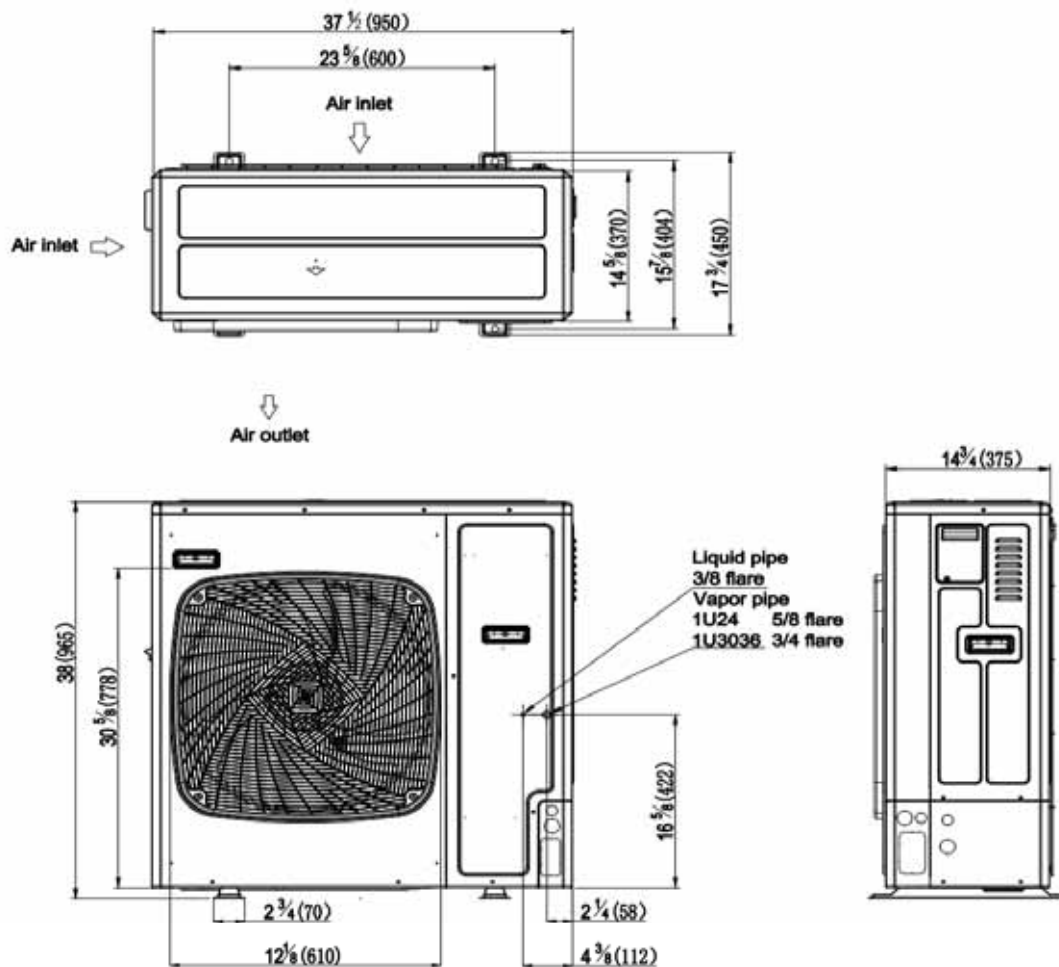
24000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / AW24TL2HFA

INDOOR UNIT

52 7/8 (1341)



OUTDOOR UNIT



24000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / AW24TL2HFA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	14,654	1,181	12.41	13,305	710	18.81	15,997	733	18.42	13,942	753	18.24	14,205	777	18.07	14,442	803	17.80	14,616	843	17.54	14,900	854	17.29
32°F (0°C)	14,640	1,163	12.59	14,488	804	17.70	16,962	863	17.34	15,191	876	17.17	15,476	918	17.00	15,725	937	16.76	15,931	951	16.51	16,291	1,003	16.27
50°F (10°C)	16,203	1,295	12.52	15,530	925	16.86	16,027	979	16.51	16,262	1,002	16.35	16,597	1,034	16.19	16,810	1,061	15.95	17,112	1,077	15.72	17,411	1,113	15.49
68°F (20°C)	17,776	1,637	10.86	17,874	1,585	11.33	18,489	1,661	11.09	18,748	1,711	10.98	19,124	1,756	10.88	19,401	1,799	10.72	19,665	1,861	10.56	20,108	1,925	10.41
86°F (30°C)	16,692	1,960	8.52	20,718	2,081	9.94	21,369	2,191	9.73	21,735	2,254	9.64	22,124	2,327	9.54	22,444	2,394	9.41	22,830	2,460	9.27	23,275	2,555	9.13
95°F (35°C)	15,477	2,165	7.15	22,789	2,475	9.26	23,557	2,582	9.07	23,909	2,668	8.98	24,384	2,747	8.89	24,754	2,829	8.76	25,130	2,913	8.63	25,572	3,013	8.51
104°F (40°C)	15,660	2,268	6.90	20,969	2,329	9.00	21,631	2,454	8.81	21,963	2,511	8.73	22,384	2,598	8.64	22,725	2,661	8.52	23,104	2,739	8.39	23,580	2,845	8.27
110°F (43°C)	15,814	2,355	6.72	18,797	2,111	8.85	19,362	2,232	8.66	19,613	2,277	8.58	20,036	2,351	8.50	20,355	2,435	8.37	20,658	2,497	8.25	21,060	2,588	8.13
115°F (46°C)	16,120	2,486	6.49	16,553	1,918	8.66	17,059	2,009	8.48	17,290	2,055	8.40	17,696	2,114	8.32	17,897	2,188	8.20	18,225	2,248	8.08	18,565	2,336	7.96

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	15,128	1,043	14.51	15,435	752	20.63	15,872	786	20.21	16,145	794	20.01	16,429	826	19.82	16,970	873	19.63	17,280	888	19.44	17,677	915	19.25
14°F (-10°C)	15,125	1,052	14.38	15,506	748	20.29	15,949	812	19.87	16,166	823	19.68	16,498	835	19.49	17,012	870	19.30	17,350	907	19.11	17,724	938	18.93
23°F (-5°C)	14,684	1,160	12.66	15,601	780	20.03	16,058	830	19.62	16,345	829	19.43	16,650	857	19.24	17,171	900	19.06	17,456	932	18.87	17,817	959	18.69
32°F (0°C)	14,700	1,178	12.48	15,657	905	17.39	16,147	951	17.03	16,415	961	16.86	16,714	996	16.70	17,221	1,030	16.54	17,528	1,061	16.38	17,890	1,108	16.22
50°F (10°C)	16,210	1,298	12.49	15,826	1,017	15.63	16,362	1,078	15.31	16,552	1,089	15.16	16,902	1,120	15.01	17,455	1,172	14.87	17,757	1,196	14.72	18,106	1,232	14.58
68°F (20°C)	17,767	1,617	10.99	17,753	1,646	10.68	18,272	1,744	10.46	18,536	1,800	10.36	18,920	1,837	10.26	19,473	1,921	10.16	19,884	1,974	10.06	20,260	2,041	9.96
86°F (30°C)	16,666	1,942	8.58	20,504	2,181	9.41	21,141	2,289	9.22	21,446	2,337	9.13	21,837	2,429	9.04	22,525	2,524	8.95	22,963	2,588	8.86	23,415	2,665	8.78
95°F (35°C)	15,458	2,181	7.09	22,373	2,576	8.64	23,085	2,724	8.46	23,393	2,781	8.38	23,841	2,866	8.30	24,617	3,002	8.22	25,078	3,076	8.14	25,613	3,180	8.06
104°F (40°C)	15,676	2,267	6.91	20,661	2,410	8.54	21,304	2,550	8.36	21,649	2,615	8.28	22,039	2,689	8.20	22,746	2,786	8.12	23,198	2,868	8.04	23,650	2,955	7.97
110°F (43°C)	15,845	2,336	6.78	18,525	2,184	8.48	19,098	2,310	8.31	19,396	2,344	8.23	19,758	2,423	8.15	20,348	2,516	8.07	20,800	2,589	7.99	21,160	2,674	7.91
115°F (46°C)	16,169	2,492	6.49	16,397	1,959	8.41	16,894	2,042	8.23	17,122	2,108	8.15	17,470	2,165	8.08	17,988	2,245	8.00	18,383	2,329	7.92	18,717	2,377	7.84

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	15,124	1,052	14.38	15,486	761	20.16	15,987	809	19.74	16,217	832	19.55	16,546	855	19.36	17,051	882	19.17	17,396	904	18.99	17,758	953	18.80
14°F (-10°C)	15,132	1,055	14.35	15,344	780	19.49	15,816	816	19.09	16,006	840	18.90	16,354	874	18.72	16,868	902	18.54	17,167	942	18.36	17,547	952	18.18
23°F (-5°C)	14,689	1,172	12.53	15,415	801	19.25	15,938	854	18.85	16,161	870	18.67	16,437	892	18.49	16,966	932	18.31	17,310	942	18.13	17,659	984	17.95
32°F (0°C)	14,658	1,160	12.64	15,523	928	16.70	16,007	962	16.36	16,199	1,006	16.20	16,568	1,032	16.04	17,028	1,071	15.89	17,367	1,109	15.73	17,740	1,132	15.58
50°F (10°C)	16,191	1,313	12.33	15,713	1,055	15.02	16,180	1,109	14.71	16,426	1,122	14.57	16,733	1,154	14.43	17,258	1,218	14.29	17,605	1,244	14.15	17,955	1,286	14.01
68°F (20°C)	17,778	1,616	11.00	17,572	1,752	10.07	18,079	1,837	9.86	18,327	1,883	9.76	18,702	1,924	9.67	19,272	2,016	9.58	19,695	2,079	9.48	20,076	2,135	9.39
86°F (30°C)	16,691	1,950	8.56	20,248	2,280	8.92	20,930	2,394	8.73	21,205	2,446	8.65	21,666	2,532	8.56	22,260	2,615	8.48	22,759	2,701	8.40	23,175	2,778	8.32
95°F (35°C)	15,457	2,163	7.15	22,159	2,720	8.15	22,828	2,848	7.98	23,190	2,932	7.90	23,603	3,019	7.82	24,343	3,129	7.75	24,847	3,242	7.67	25,317	3,340	7.60
104°F (40°C)	15,666	2,281	6.87	20,432	2,525	8.12	21,067	2,664	7.95	21,377	2,718	7.87	21,856	2,790	7.80	22,511	2,909	7.72	22,931	2,990	7.65	23,385	3,079	7.57
110°F (43°C)	15,817	2,340	6.76	18,334	2,272	8.10	18,919	2,382	7.94	19,206	2,439	7.86	19,551	2,506	7.78	20,190	2,628	7.71	20,587	2,699	7.63	20,955	2,776	7.56
115°F (46°C)	16,123	2,504	6.44	16,223	1,999	8.08	16,740	2,122	7.91	16,944	2,165	7.84	17,327	2,234	7.76	17,816	2,330	7.69	18,156	2,395	7.61	18,573	2,455	7.54

24000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / AW24TL2HFA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	16,756	2,835	1.73	16,297	2,895	1.64	15,982	2,961	1.58	15,637	3,009	1.52	15,350	3,069	1.46	15,119	3,126	1.41	14,912	3,188	1.37
-5°F(-21°C)	18,088	2,839	1.87	17,582	2,896	1.78	17,231	2,943	1.71	16,930	3,002	1.65	16,528	3,069	1.59	16,288	3,112	1.53	16,099	3,166	1.49
0°F(-18°C)	19,480	2,822	2.02	18,893	2,894	1.92	18,537	2,949	1.84	18,140	2,977	1.78	17,779	3,034	1.71	17,507	3,099	1.65	17,239	3,144	1.60
5°F(-15°C)	20,500	2,945	2.04	19,848	2,999	1.94	19,520	3,054	1.86	19,100	3,105	1.80	18,726	3,171	1.73	18,412	3,237	1.67	18,174	3,276	1.62
14°F(-10°C)	21,916	2,846	2.25	21,300	2,921	2.14	20,883	2,960	2.06	20,445	3,026	1.99	20,057	3,081	1.91	19,728	3,127	1.84	19,438	3,197	1.79
23°F(-5°C)	24,380	2,726	2.63	23,668	2,761	2.51	23,240	2,820	2.41	22,757	2,871	2.33	22,323	2,939	2.23	22,013	2,993	2.16	21,638	3,027	2.09
32°F(0°C)	26,168	2,583	2.97	25,348	2,618	2.84	24,869	2,688	2.71	24,438	2,738	2.62	24,211	2,774	2.56	23,691	2,837	2.45	23,500	2,882	2.39
41°F(5°C)	27,442	2,389	3.37	26,582	2,443	3.19	26,228	2,469	3.11	25,602	2,502	3.00	25,051	2,567	2.86	24,683	2,598	2.78	24,454	2,661	2.69
47°F(8°C)	27,698	2,198	3.83	28,092	2,229	3.69	27,387	2,280	3.52	27,118	2,292	3.47	26,388	2,337	3.31	25,890	2,386	3.18	25,467	2,425	3.08
55°F(13°C)	27,552	2,075	4.03	27,924	2,106	3.89	27,308	2,163	3.70	26,746	2,203	3.56	26,034	2,215	3.45	25,790	2,276	3.32	25,507	2,303	3.25
65°F(18°C)	27,153	1,956	4.22	27,107	2,026	3.92	26,538	2,064	3.77	26,106	2,064	3.71	25,760	2,105	3.59	25,316	2,156	3.44	24,839	2,178	3.34
75°F(24°C)	26,145	1,686	4.54	25,741	1,713	4.40	24,976	1,752	4.18	24,621	1,771	4.08	24,093	1,793	3.94	23,833	1,858	3.76	23,403	1,882	3.65

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	17,309	2,894	1.75	16,763	2,953	1.67	16,467	3,000	1.61	16,120	3,037	1.56	15,801	3,107	1.50	15,523	3,143	1.45	15,326	3,195	1.40
-5°F(-21°C)	18,274	2,875	1.86	17,784	2,947	1.77	17,414	2,973	1.71	17,092	3,022	1.65	16,758	3,086	1.59	16,478	3,155	1.53	16,240	3,181	1.49
0°F(-18°C)	19,832	2,875	2.02	19,229	2,928	1.92	18,911	2,980	1.86	18,521	3,020	1.79	18,119	3,083	1.72	17,847	3,150	1.67	17,637	3,189	1.62
5°F(-15°C)	20,766	2,997	2.03	20,152	3,061	1.93	19,773	3,109	1.87	19,362	3,161	1.80	18,988	3,227	1.73	18,705	3,278	1.67	18,453	3,336	1.62

24000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / USYM24UCDDA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Wired Controller

Controller must be ordered separately.

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A

Uses snow hood UAWB85A

Supply Plenum

UAPT1824A

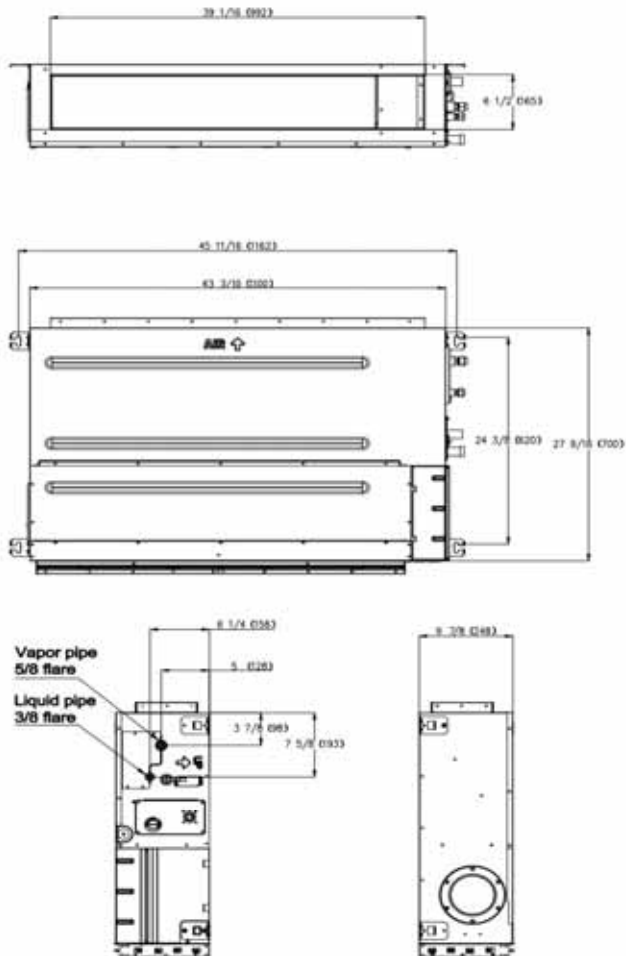
Filter Box

UAMFB1824A

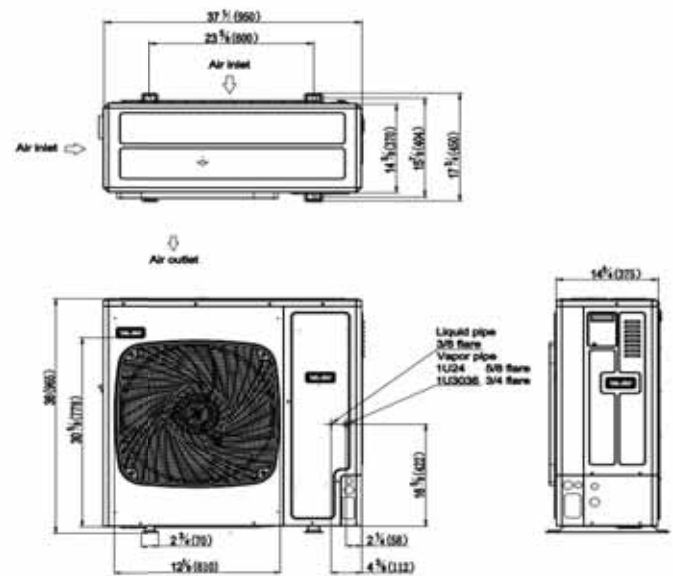
Operating Range	Cooling w/o Wind Baffle °F (°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F (°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~4°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	24,000
	Capacity Range Btu/hr	7,200~26,000
	SEER2/EER2	16.5/9.5
	Rated Power Input W	2,525
Heating	Moisture Removal Pt./hr	9.6
	Rated Heating Capacity 47°F Btu/hr	26,000
	Heating Capacity Range Btu/hr	4,000~28,500
	HSPF2 (I)/HSPF2 (V)	8.1/6.9
Outdoor Unit	Rated Power Input W	2,420
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	25
	Minimum Circuit AmpA	21
	Outdoor Noise Level dB	60
	Dimension: H x W x D in (mm)	37 7/8 x 37 1/2 x 14 5/8 (965 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	46 3/8 x 41 3/8 x 19 1/8 (1175 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	196/158 (89/72)
Indoor Unit	Base Pan Heater	Built-in
	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low/Quiet)	927/844/667/564/482
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1070/1030/880/790/740
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	44/43/42/40/38
	Dimension: H x W x D in (mm)	9 7/8 x 43 3/8 x 37 5/8 (248 x 1100 x 700)
	Carton Dimension: H x W x D in (mm)	13 7/8 x 52 x 34 1/8 (350 x 1319 x 866)
	Weight Ship/Net - lbs (kg)	121.3/92.6 (55/42)
	Max. External Static Pressure in.W.G (Pa)	0.6 (150)
	Internal Condensate Pump	Standard
	Drain Pipe Size O.D in	1 1/4
Piping	Max. Drain-lift height in (mm)	39 3/8 (1000)
	Line Size: Liquid (Suction) in.	3/8 (5/8)
	IDU Flare Size: Liquid (Suction) in.	3/8 (5/8)
	ODU Port Size: Liquid (Suction) in.	3/8 (5/8)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (85.0)
	Max. Line Length/Height Ft (mm)	165/100 (50/30)

24000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / USYM24UCDDA

INDOOR UNIT



OUTDOOR UNIT



24000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / USYM24UCDDA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	12,793	680	18.83	13,189	715	18.44	13,597	753	18.06	13,801	772	17.88	14,077	795	17.71	14,288	819	17.45	14,502	843	17.20	14,792	873	16.95
32°F (0°C)	13,934	786	17.72	14,365	828	17.35	14,809	871	17.00	15,031	893	16.83	15,332	920	16.67	15,562	948	16.42	15,795	976	16.18	16,111	1,010	15.95
50°F (10°C)	14,936	885	16.87	15,398	932	16.52	15,874	981	16.18	16,112	1,006	16.02	16,434	1,036	15.87	16,681	1,067	15.64	16,931	1,099	15.41	17,270	1,137	15.19
68°F (20°C)	17,206	1,434	12.00	17,738	1,509	11.75	18,286	1,589	11.51	18,561	1,628	11.40	18,932	1,677	11.29	19,216	1,727	11.12	19,504	1,779	10.96	19,894	1,842	10.80
86°F (30°C)	19,940	1,909	10.45	20,557	2,009	10.23	21,192	2,115	10.02	21,510	2,168	9.92	21,941	2,233	9.83	22,270	2,300	9.68	22,604	2,369	9.54	23,056	2,451	9.40
95°F (35°C)	21,933	2,187	10.03	22,612	2,302	9.82	23,311	2,423	9.62	23,661	2,484	9.53	24,134	2,558	9.43	24,496	2,635	9.30	24,863	2,714	9.16	25,361	2,809	9.03
104°F (40°C)	20,182	2,145	9.41	20,806	2,258	9.22	21,450	2,377	9.03	21,771	2,436	8.94	22,207	2,509	8.85	22,540	2,584	8.72	22,878	2,662	8.59	23,336	2,755	8.47
110°F (43°C)	18,045	1,990	9.07	18,603	2,095	8.88	19,178	2,205	8.70	19,466	2,260	8.61	19,855	2,328	8.53	20,153	2,398	8.41	20,455	2,469	8.28	20,865	2,556	8.16
115°F (46°C)	15,908	1,835	8.67	16,400	1,931	8.49	16,907	2,033	8.32	17,161	2,084	8.24	17,504	2,146	8.16	17,766	2,211	8.04	18,033	2,277	7.92	18,394	2,357	7.80

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	14,822	718	20.65	15,281	756	20.22	15,753	795	19.80	15,990	815	19.61	16,310	840	19.42	16,799	873	19.23	17,135	900	19.05	17,478	927	18.86
14°F (-10°C)	14,872	733	20.30	15,332	771	19.88	15,806	812	19.47	16,044	832	19.28	16,364	857	19.10	16,855	891	18.91	17,192	918	18.73	17,536	946	18.55
23°F (-5°C)	14,986	748	20.05	15,450	787	19.63	15,927	828	19.23	16,166	849	19.04	16,490	874	18.86	16,984	909	18.68	17,324	937	18.49	17,671	965	18.31
32°F (0°C)	15,049	865	17.40	15,515	911	17.04	15,994	958	16.69	16,234	982	16.52	16,559	1,012	16.36	17,056	1,052	16.21	17,397	1,084	16.05	17,745	1,116	15.89
50°F (10°C)	15,235	974	15.64	15,706	1,025	15.32	16,191	1,079	15.00	16,434	1,106	14.86	16,763	1,139	14.71	17,266	1,185	14.57	17,611	1,220	14.43	17,963	1,257	14.29
68°F (20°C)	17,034	1,505	11.32	17,560	1,585	11.08	18,103	1,668	10.85	18,375	1,710	10.75	18,743	1,761	10.64	19,305	1,831	10.54	19,691	1,886	10.44	20,085	1,943	10.34
86°F (30°C)	19,678	1,988	9.90	20,287	2,093	9.69	20,914	2,203	9.49	21,228	2,258	9.40	21,653	2,326	9.31	22,302	2,419	9.22	22,748	2,492	9.13	23,203	2,566	9.04
95°F (35°C)	21,495	2,296	9.36	22,159	2,417	9.17	22,845	2,544	8.98	23,187	2,608	8.89	23,651	2,686	8.81	24,361	2,793	8.72	24,848	2,877	8.64	25,345	2,964	8.55
104°F (40°C)	19,863	2,223	8.94	20,477	2,340	8.75	21,111	2,463	8.57	21,427	2,524	8.49	21,856	2,600	8.41	22,512	2,704	8.32	22,962	2,785	8.24	23,421	2,869	8.16
110°F (43°C)	17,806	2,047	8.70	18,357	2,155	8.52	18,924	2,268	8.34	19,208	2,325	8.26	19,592	2,395	8.18	20,180	2,490	8.10	20,584	2,565	8.02	20,995	2,642	7.95
115°F (46°C)	15,749	1,871	8.42	16,236	1,970	8.24	16,738	2,074	8.07	16,989	2,126	7.99	17,329	2,189	7.92	17,849	2,277	7.84	18,206	2,345	7.76	18,570	2,415	7.69

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	14,915	739	20.17	15,376	778	19.75	15,851	819	19.35	16,089	840	19.16	16,411	865	18.97	16,903	900	18.79	17,241	927	18.61	17,586	954	18.43
14°F (-10°C)	14,715	755	19.50	15,170	794	19.10	15,639	836	18.71	15,874	857	18.52	16,192	883	18.34	16,677	918	18.17	17,011	946	17.99	17,351	974	17.82
23°F (-5°C)	14,829	770	19.26	15,288	810	18.86	15,760	853	18.47	15,997	874	18.29	16,317	901	18.12	16,806	937	17.94	17,142	965	17.77	17,485	994	17.59
32°F (0°C)	14,892	891	16.71	15,353	938	16.37	15,827	987	16.03	16,065	1,012	15.88	16,386	1,042	15.72	16,878	1,084	15.57	17,215	1,116	15.42	17,560	1,150	15.27
50°F (10°C)	15,077	1,003	15.03	15,544	1,056	14.72	16,024	1,111	14.42	16,265	1,139	14.28	16,590	1,173	14.14	17,088	1,220	14.00	17,430	1,257	13.87	17,778	1,295	13.73
68°F (20°C)	16,863	1,581	10.67	17,385	1,664	10.45	17,922	1,751	10.23	18,191	1,795	10.13	18,555	1,849	10.04	19,112	1,923	9.94	19,494	1,981	9.84	19,884	2,040	9.75
86°F (30°C)	19,481	2,077	9.38	20,084	2,186	9.19	20,705	2,301	9.00	21,016	2,359	8.91	21,436	2,430	8.82	22,079	2,527	8.74	22,521	2,603	8.65	22,971	2,681	8.57
95°F (35°C)	21,280	2,411	8.83	21,938	2,538	8.64	22,616	2,671	8.47	22,956	2,738	8.38	23,415	2,820	8.30	24,117	2,933	8.22	24,599	3,021	8.14	25,091	3,112	8.06
104°F (40°C)	19,665	2,314	8.50	20,273	2,436	8.32	20,900	2,564	8.15	21,213	2,628	8.07	21,637	2,707	7.99	22,287	2,815	7.92	22,732	2,900	7.84	23,187	2,986	7.76
110°F (43°C)	17,628	2,121	8.31	18,173	2,232	8.14	18,735	2,350	7.97	19,016	2,409	7.90	19,396	2,481	7.82	19,978	2,580	7.74	20,378	2,658	7.67	20,785	2,737	7.59
115°F (46°C)	15,591	1,928	8.09	16,073	2,029	7.92	16,571	2,136	7.76	16,819	2,189	7.68	17,155	2,255	7.61	17,670	2,345	7.53	18,024	2,415	7.46	18,384	2,488	7.39

24000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / USYM24UCDDA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	17,577	2,907	1.77	17,065	2,966	1.69	16,730	3,027	1.62	16,402	3,073	1.56	16,074	3,134	1.50	15,833	3,197	1.45	15,595	3,245	1.41
-5°F(-21°C)	18,976	2,933	1.90	18,424	2,993	1.80	18,062	3,054	1.73	17,708	3,100	1.67	17,354	3,162	1.61	17,094	3,226	1.55	16,837	3,274	1.51
0°F(-18°C)	20,376	2,959	2.02	19,782	3,019	1.92	19,395	3,081	1.85	19,014	3,128	1.78	18,634	3,190	1.71	18,354	3,254	1.65	18,079	3,303	1.60
5°F(-15°C)	21,448	3,082	2.04	20,824	3,145	1.94	20,415	3,209	1.86	20,015	3,258	1.80	19,615	3,323	1.73	19,320	3,390	1.67	19,031	3,440	1.62
14°F(-10°C)	22,455	2,990	2.20	21,801	3,051	2.09	21,373	3,113	2.01	20,954	3,160	1.94	20,535	3,223	1.87	20,227	3,288	1.80	19,924	3,337	1.75
23°F(-5°C)	24,533	2,860	2.51	23,819	2,919	2.39	23,352	2,978	2.30	22,894	3,024	2.22	22,436	3,084	2.13	22,100	3,146	2.06	21,768	3,193	2.00
32°F(0°C)	27,619	2,731	2.96	26,814	2,787	2.82	26,288	2,844	2.71	25,773	2,887	2.62	25,258	2,945	2.51	24,879	3,004	2.43	24,505	3,049	2.36
41°F(5°C)	28,179	2,549	3.24	27,358	2,601	3.08	26,821	2,654	2.96	26,296	2,695	2.86	25,770	2,748	2.75	25,383	2,803	2.65	25,002	2,845	2.58
47°F(8°C)	28,738	2,367	3.56	27,901	2,415	3.39	27,354	2,464	3.25	26,818	2,502	3.14	26,282	2,552	3.02	25,887	2,603	2.91	25,499	2,642	2.83
55°F(13°C)	28,451	2,249	3.71	27,622	2,294	3.53	27,081	2,341	3.39	26,550	2,377	3.27	26,019	2,424	3.15	25,629	2,473	3.04	25,244	2,510	2.95
65°F(18°C)	27,882	2,136	3.83	27,070	2,180	3.64	26,539	2,224	3.50	26,019	2,258	3.38	25,498	2,303	3.24	25,116	2,349	3.13	24,739	2,385	3.04
75°F(24°C)	26,209	1,816	4.23	25,446	1,853	4.03	24,947	1,891	3.87	24,458	1,919	3.73	23,969	1,958	3.59	23,609	1,997	3.47	23,255	2,027	3.36

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	18,104	2,947	1.80	17,577	3,007	1.71	17,232	3,053	1.65	16,894	3,099	1.60	16,556	3,161	1.54	16,291	3,218	1.48	16,063	3,266	1.44
-5°F(-21°C)	19,166	2,977	1.89	18,608	3,038	1.80	18,243	3,084	1.73	17,885	3,131	1.67	17,528	3,194	1.61	17,247	3,251	1.55	17,006	3,300	1.51
0°F(-18°C)	20,783	3,009	2.02	20,178	3,070	1.93	19,782	3,117	1.86	19,395	3,165	1.80	19,007	3,228	1.73	18,703	3,286	1.67	18,441	3,335	1.62
5°F(-15°C)	21,770	3,141	2.03	21,136	3,205	1.93	20,722	3,253	1.87	20,315	3,303	1.80	19,909	3,369	1.73	19,590	3,430	1.67	19,316	3,481	1.63

24000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / USYL24UCDDA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Standard Remote Control (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A

Uses snow hood UAWB85A

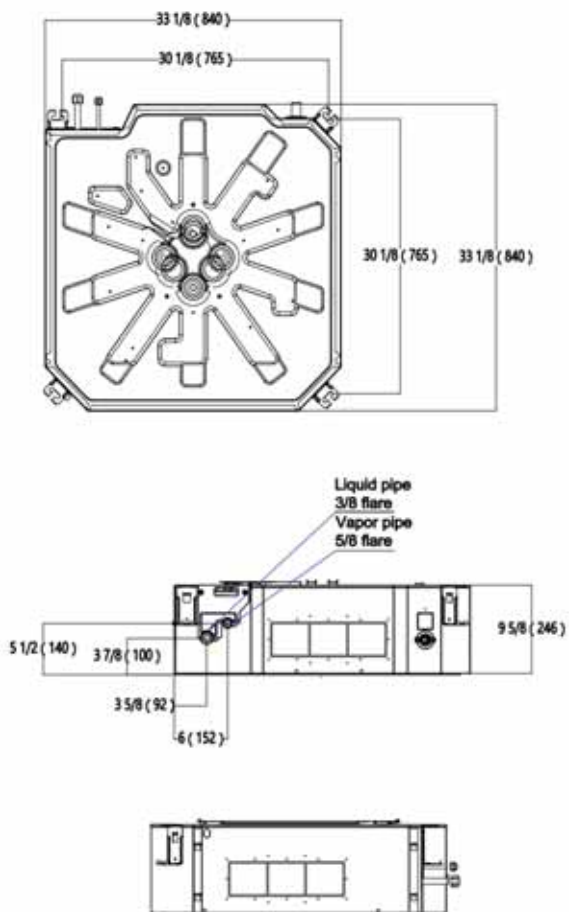
Panel

PB-950KD is required to complete the installation and it must be ordered separately

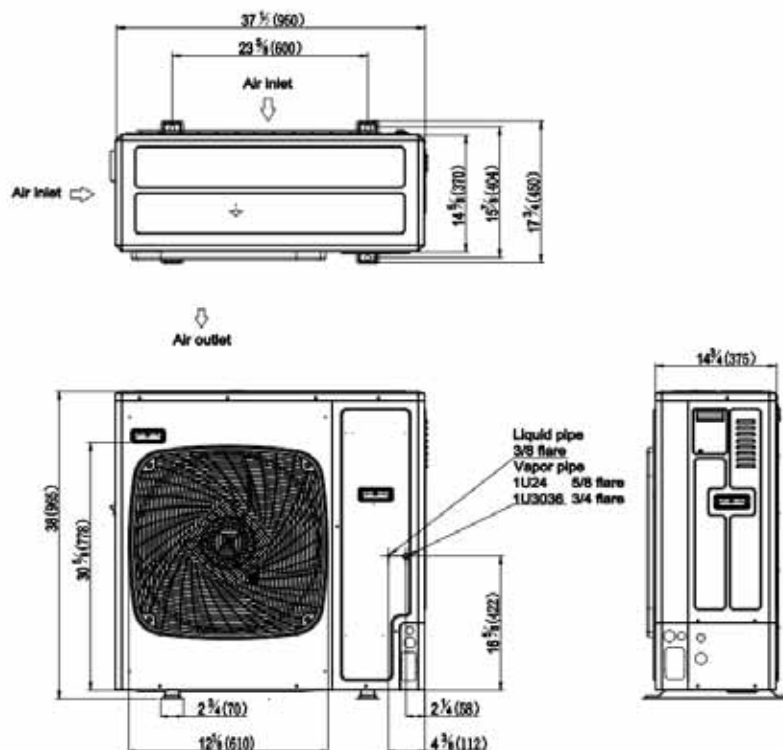
Operating Range	Cooling w/o Wind Baffle °F (°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F (°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~4°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	24,000
	Capacity Range Btu/hr	11,000~26,000
	SEER2/EER2	19.0/11.0
	Rated Power Input W	2,180
	Moisture Removal Pt./hr	6.9
Heating	Rated Heating Capacity 47°F Btu/hr	26,000
	Heating Capacity Range Btu/hr	6,800~27,000
	HSPF2 (I)/HSPF2 (V)	8.6/7.1
	Rated Power Input W	2,260
Outdoor Unit	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	25
	Minimum Circuit AmpA	21
	Dimension: H x W x D in (mm)	37 7/8 x 37 1/2 x 14 5/8 (965 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	46 3/8 x 41 3/8 x 19 1/8 (1175 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	196/158 (89/72)
	Base Pan Heater	Built-in
	Fan Speed Stages	5 + Auto
Indoor Unit	Airflow CFM (Turbo/High/Med/Low)	824/752/587/482
	Indoor Motor Speed RPM (Turbo/High/Med/Low)	580/540/430/360
	Indoor Sound Level dB (Turbo/High/Med/Low)	46/44/39/37
	Dimension: H x W x D in (mm)	9 3/4 x 33 1/8 x 33 1/8 (246 x 840 x 840)
	Carton Dimension: H x W x D in (mm)	13 7/8 x 38 5/8 x 38 5/8 (350 x 980 x 980)
	Drain Pipe Size O.D in	1 1/4
	Internal Condensate Pump	Standard
	Max. Drain-Lift height in(mm)	39 3/8 (1000)
	Weight Ship/Net - lbs	90/63 (41/29)
	Model Number	PB-950KD
Grille	Line Size: Liquid (Suction) in.	3/8 (5/8)
	IDU Flare Size: Liquid (Suction) in.	3/8 (5/8)
	ODU Port Size: Liquid (Suction) in.	3/8 (5/8)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (85.0)
Piping	Max. Line Length/Height Ft (mm)	165/100 (50/30)

24000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / USYL24UCDDA

INDOOR UNIT



OUTDOOR UNIT



24000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / USYL24UCDDA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	12,921	673	19.21	13,321	708	18.81	13,733	745	18.42	13,939	764	18.24	14,218	787	18.07	14,431	811	17.80	14,647	835	17.54	14,940	864	17.29
32°F (0°C)	14,073	779	18.08	14,509	819	17.70	14,957	863	17.34	15,182	884	17.17	15,485	911	17.00	15,718	938	16.76	15,953	966	16.51	16,272	1,000	16.27
50°F (10°C)	15,085	876	17.21	15,552	923	16.86	16,033	971	16.51	16,273	995	16.35	16,599	1,025	16.19	16,848	1,056	15.95	17,100	1,088	15.72	17,442	1,126	15.49
68°F (20°C)	17,378	1,284	13.54	17,915	1,351	13.26	18,469	1,422	12.98	18,746	1,458	12.86	19,121	1,502	12.73	19,408	1,547	12.55	19,699	1,593	12.36	20,093	1,649	12.18
86°F (30°C)	20,139	1,735	11.61	20,762	1,826	11.37	21,404	1,922	11.14	21,725	1,970	11.03	22,160	2,029	10.92	22,492	2,090	10.76	22,830	2,153	10.61	23,286	2,228	10.45
95°F (35°C)	22,153	1,874	11.82	22,838	1,973	11.57	23,544	2,077	11.34	23,897	2,129	11.23	24,375	2,193	11.12	24,741	2,259	10.95	25,112	2,326	10.79	25,614	2,408	10.64
104°F (40°C)	20,384	1,968	10.35	21,014	2,072	10.14	21,664	2,181	9.93	21,989	2,236	9.84	22,429	2,303	9.74	22,765	2,372	9.60	23,107	2,443	9.46	23,569	2,528	9.32
110°F (43°C)	18,225	1,892	9.63	18,789	1,992	9.43	19,370	2,097	9.24	19,661	2,149	9.15	20,054	2,214	9.06	20,355	2,280	8.93	20,660	2,349	8.80	21,073	2,431	8.67
115°F (46°C)	16,067	1,816	8.85	16,564	1,912	8.66	17,076	2,013	8.48	17,332	2,063	8.40	17,679	2,125	8.32	17,944	2,189	8.20	18,213	2,254	8.08	18,577	2,333	7.96

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	14,975	711	21.07	15,438	748	20.63	15,915	788	20.21	16,154	807	20.01	16,477	831	19.82	16,972	865	19.63	17,311	891	19.44	17,657	917	19.25
14°F (-10°C)	15,025	725	20.72	15,489	763	20.29	15,968	804	19.87	16,208	824	19.68	16,532	848	19.49	17,028	882	19.30	17,369	909	19.11	17,716	936	18.93
23°F (-5°C)	15,139	740	20.46	15,607	779	20.03	16,089	820	19.62	16,331	841	19.43	16,657	866	19.24	17,157	900	19.06	17,500	927	18.87	17,850	955	18.69
32°F (0°C)	15,202	856	17.75	15,672	901	17.39	16,156	949	17.03	16,399	973	16.86	16,727	1,002	16.70	17,229	1,042	16.54	17,573	1,073	16.38	17,925	1,105	16.22
50°F (10°C)	15,387	964	15.96	15,863	1,015	15.63	16,353	1,068	15.31	16,599	1,095	15.16	16,931	1,128	15.01	17,439	1,173	14.87	17,787	1,208	14.72	18,143	1,244	14.58
68°F (20°C)	17,204	1,348	12.76	17,736	1,419	12.50	18,285	1,494	12.24	18,559	1,531	12.12	18,930	1,577	12.00	19,498	1,640	11.89	19,888	1,689	11.77	20,286	1,740	11.66
86°F (30°C)	19,875	1,806	11.01	20,490	1,901	10.78	21,123	2,001	10.56	21,440	2,051	10.45	21,869	2,112	10.35	22,525	2,197	10.25	22,976	2,263	10.15	23,435	2,331	10.05
95°F (35°C)	21,710	1,968	11.03	22,381	2,072	10.80	23,073	2,181	10.58	23,419	2,235	10.48	23,888	2,302	10.37	24,604	2,395	10.28	25,096	2,466	10.18	25,598	2,540	10.08
104°F (40°C)	20,062	2,038	9.84	20,682	2,145	9.64	21,322	2,258	9.44	21,642	2,314	9.35	22,075	2,384	9.26	22,737	2,479	9.17	23,192	2,554	9.08	23,655	2,630	8.99
110°F (43°C)	17,984	1,945	9.24	18,540	2,048	9.05	19,114	2,155	8.87	19,400	2,209	8.78	19,788	2,276	8.70	20,382	2,367	8.61	20,790	2,438	8.53	21,205	2,511	8.45
115°F (46°C)	15,906	1,853	8.59	16,398	1,950	8.41	16,905	2,053	8.23	17,159	2,104	8.15	17,502	2,167	8.08	18,027	2,254	8.00	18,388	2,322	7.92	18,755	2,391	7.84

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	15,067	732	20.58	15,533	771	20.16	16,013	811	19.74	16,254	831	19.55	16,579	856	19.36	17,076	891	19.17	17,418	917	18.99	17,766	945	18.80
14°F (-10°C)	14,868	747	19.90	15,327	786	19.49	15,801	828	19.09	16,038	848	18.90	16,359	874	18.72	16,850	909	18.54	17,187	936	18.36	17,531	964	18.18
23°F (-5°C)	14,981	762	19.65	15,445	802	19.25	15,922	845	18.85	16,161	866	18.67	16,484	892	18.49	16,979	927	18.31	17,319	955	18.13	17,665	984	17.95
32°F (0°C)	15,044	882	17.06	15,510	928	16.70	15,989	977	16.36	16,229	1,002	16.20	16,554	1,032	16.04	17,050	1,073	15.89	17,391	1,105	15.73	17,739	1,138	15.58
50°F (10°C)	15,230	993	15.34	15,701	1,045	15.02	16,186	1,100	14.71	16,429	1,128	14.57	16,758	1,162	14.43	17,261	1,208	14.29	17,606	1,244	14.15	17,958	1,282	14.01
68°F (20°C)	17,032	1,415	12.03	17,559	1,490	11.79	18,102	1,568	11.54	18,373	1,608	11.43	18,741	1,656	11.32	19,303	1,722	11.21	19,689	1,774	11.10	20,083	1,827	10.99
86°F (30°C)	19,676	1,886	10.44	20,285	1,985	10.22	20,912	2,089	10.01	21,226	2,141	9.91	21,650	2,206	9.82	22,300	2,294	9.72	22,746	2,363	9.63	23,201	2,434	9.53
95°F (35°C)	21,493	2,067	10.40	22,157	2,175	10.19	22,842	2,290	9.98	23,185	2,347	9.88	23,649	2,418	9.78	24,358	2,514	9.69	24,845	2,590	9.59	25,342	2,667	9.50
104°F (40°C)	19,861	2,120	9.37	20,475	2,232	9.18	21,109	2,349	8.99	21,425	2,408	8.90	21,854	2,480	8.81	22,509	2,579	8.73	22,960	2,657	8.64	23,419	2,736	8.56
110°F (43°C)	17,804	2,014	8.84	18,355	2,120	8.66	18,922	2,232	8.48	19,206	2,288	8.40	19,590	2,356	8.31	20,178	2,450	8.23	20,582	2,524	8.15	20,993	2,600	8.08
115°F (46°C)	15,747	1,908	8.25	16,234	2,009	8.08	16,736	2,115	7.91	16,987	2,167	7.84	17,327	2,232	7.76	17,847	2,322	7.69	18,204	2,391	7.61	18,568	2,463	7.54

24000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U24LP2HDA / USYL24UCDDA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	16,786	2,848	1.73	16,297	2,907	1.64	15,977	2,966	1.58	15,664	3,011	1.52	15,351	3,071	1.46	15,120	3,133	1.41	14,894	3,180	1.37
-5°F(-21°C)	18,126	2,838	1.87	17,598	2,896	1.78	17,253	2,955	1.71	16,914	3,000	1.65	16,576	3,060	1.59	16,328	3,121	1.53	16,083	3,168	1.49
0°F(-18°C)	19,466	2,827	2.02	18,899	2,885	1.92	18,528	2,944	1.84	18,165	2,988	1.78	17,802	3,048	1.71	17,535	3,109	1.65	17,272	3,156	1.60
5°F(-15°C)	20,490	2,945	2.04	19,893	3,005	1.94	19,503	3,066	1.86	19,121	3,113	1.80	18,739	3,175	1.73	18,458	3,239	1.67	18,181	3,287	1.62
14°F(-10°C)	21,406	2,857	2.20	20,783	2,915	2.09	20,375	2,974	2.01	19,976	3,020	1.94	19,576	3,080	1.86	19,283	3,142	1.80	18,994	3,189	1.75
23°F(-5°C)	23,347	2,717	2.52	22,667	2,773	2.40	22,223	2,829	2.30	21,787	2,872	2.22	21,351	2,930	2.14	21,031	2,988	2.06	20,716	3,033	2.00
32°F(0°C)	26,204	2,578	2.98	25,441	2,630	2.83	24,942	2,684	2.72	24,453	2,725	2.63	23,964	2,780	2.53	23,604	2,835	2.44	23,250	2,878	2.37
41°F(5°C)	27,482	2,378	3.39	26,682	2,427	3.22	26,158	2,476	3.10	25,646	2,514	2.99	25,133	2,564	2.87	24,756	2,616	2.77	24,384	2,655	2.69
47°F(8°C)	28,760	2,179	3.87	27,922	2,223	3.68	27,375	2,268	3.54	26,838	2,303	3.42	26,301	2,349	3.28	25,907	2,396	3.17	25,518	2,432	3.08
55°F(13°C)	28,472	2,070	4.03	27,643	2,112	3.84	27,101	2,155	3.69	26,570	2,188	3.56	26,038	2,232	3.42	25,648	2,276	3.30	25,263	2,310	3.20
65°F(18°C)	27,903	1,966	4.16	27,090	2,006	3.96	26,559	2,047	3.80	26,038	2,078	3.67	25,517	2,120	3.53	25,135	2,162	3.41	24,758	2,195	3.31
75°F(24°C)	26,229	1,671	4.60	25,465	1,705	4.38	24,965	1,740	4.20	24,476	1,767	4.06	23,986	1,802	3.90	23,627	1,838	3.77	23,272	1,866	3.66

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	17,289	2,888	1.75	16,786	2,947	1.67	16,457	2,991	1.61	16,134	3,037	1.56	15,811	3,098	1.50	15,558	3,153	1.45	15,340	3,201	1.40
-5°F(-21°C)	18,307	2,882	1.86	17,774	2,940	1.77	17,425	2,985	1.71	17,084	3,031	1.65	16,742	3,091	1.59	16,474	3,147	1.53	16,243	3,194	1.49
0°F(-18°C)	19,855	2,877	2.02	19,277	2,935	1.92	18,899	2,980	1.86	18,528	3,025	1.79	18,158	3,086	1.72	17,867	3,142	1.67	17,617	3,189	1.62
5°F(-15°C)	20,798	3,003	2.03	20,192	3,064	1.93	19,796	3,111	1.87	19,408	3,158	1.80	19,020	3,221	1.73	18,715	3,279	1.67	18,453	3,328	1.62

30000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / AW30TL2HFA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Motion Sense Remote (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A

Uses snow hood UAWB85A

Operating Range	Cooling w/o Wind Baffle °F(°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F(°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~46°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	30,000
	Capacity Range Btu/hr	7,000-34,000
	SEER2/EER2	19.0/8.8
	Rated Power Input W	3,410
Heating	Moisture Removal Pt./hr	7.78
	Rated Heating Capacity 47°F Btu/hr	32,000
	Heating Capacity Range Btu/hr	6,000~32,500
	HSPF2 (I)/HSPF2 (V)	9.0/7.3
Outdoor Unit	Rated Power Input W	3,460
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	30
	Minimum Circuit AmpA	26
	Outdoor Noise Level dB	60
	Dimension: H x W x D in (mm)	37 7/8 x 37 1/2 x 14 5/8 (965 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	46 3/8 x 41 3/8 x 19 1/8 (1175 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	196/158 (89/72)
	Base Pan Heater	Built-in
	Fan Speed Stages	5 + Auto
Indoor Unit	Cooling Airflow CFM (Turbo/High/Med/Low/Quiet)	875/810/660/520/440
	Heating Airflow CFM (Turbo/High/Med/Low/Quiet)	
	Cooling Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1200/1150/975/800/700
	Heating Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	
	Indoor Sound Level dB Cooling (Turbo/High/ Med/Low/Quiet)	55/53/49/43/38
	Indoor Sound Level dB Heating (Turbo/High/ Med/Low/Quiet)	
	Dimension: H x W x D in (mm)	14 1/2 x 51 7/8 x 10 7/8 (365 x 1316 x 275)
	Carton Dimension: H x W x D in (mm)	18 7/8 x 55 7/8 x 15 7/8 (478 x 1418 x 402)
	Weight Ship/Net - lbs (kg)	56.2/46.3 (25.5/21)
	Drainpipe Size O.D. in	3/4
Piping	Line Size: Liquid (Suction) in.	3/8 (5/8)
	IDU Flare Size: Liquid (Suction) in.	3/8 (5/8)
	ODU Port Size: Liquid (Suction) in.	3/8 (3/4)
	Lineset Adapter Required	3/4 to 5/8*
	Refrigerant (Factory Charge Oz.)	R410A (88.0)
	Max. Line Length/Height Ft (mm)	165/100 (50/30)

*Adapter shipped with outdoor unit. Install on outdoor unit.

31-5001147

30000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM

1U3036LP2HDA / AW30TL2HFA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	14,666	1,174	12.49	21,815	1,009	21.62	22,475	1,047	21.18	22,846	1,082	20.97	23,235	1,131	20.77	23,616	1,148	20.46	23,990	1,183	20.17	24,467	1,231	19.87
32°F (0°C)	14,675	1,169	12.56	22,918	1,207	19.00	23,661	1,266	18.60	23,994	1,306	18.42	24,447	1,332	18.24	24,853	1,376	17.98	25,245	1,434	17.72	25,742	1,474	17.46
50°F (10°C)	16,202	1,291	12.56	23,835	1,383	17.10	24,609	1,466	16.74	24,977	1,502	16.58	25,486	1,558	16.42	25,814	1,584	16.18	26,255	1,643	15.95	26,761	1,703	15.71
68°F (20°C)	17,783	1,632	10.90	28,086	2,567	10.90	28,950	2,711	10.68	29,392	2,773	10.58	29,982	2,854	10.47	30,441	2,937	10.32	30,888	3,049	10.17	31,530	3,146	10.02
86°F (30°C)	16,670	1,948	8.56	33,285	3,594	9.24	34,308	3,783	9.05	34,805	3,888	8.97	35,524	3,999	8.88	36,076	4,110	8.75	36,555	4,240	8.62	37,332	4,394	8.50
95°F (35°C)	15,467	2,182	7.09	36,347	4,137	8.81	37,480	4,336	8.63	38,063	4,445	8.55	38,840	4,577	8.46	39,368	4,731	8.34	39,983	4,861	8.22	40,803	5,038	8.10
104°F (40°C)	15,662	2,268	6.90	34,248	4,171	8.22	35,371	4,400	8.05	35,861	4,501	7.97	36,593	4,638	7.89	37,112	4,768	7.78	37,721	4,910	7.66	38,468	5,093	7.55
110°F (43°C)	15,856	2,341	6.77	31,118	3,928	7.91	32,095	4,151	7.74	32,537	4,231	7.67	33,207	4,369	7.59	33,717	4,489	7.48	34,167	4,635	7.37	34,896	4,802	7.27
115°F (46°C)	16,109	2,494	6.46	27,931	3,700	7.56	28,745	3,886	7.40	29,212	3,978	7.33	29,805	4,094	7.26	30,232	4,219	7.15	30,723	4,360	7.05	31,325	4,511	6.94

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	15,163	1,056	14.36	23,897	1,063	22.44	24,643	1,116	21.97	25,033	1,158	21.76	25,526	1,180	21.55	26,263	1,219	21.34	26,769	1,279	21.13	27,321	1,296	20.93
14°F (-10°C)	15,135	1,038	14.58	23,981	1,079	22.03	24,718	1,134	21.58	25,095	1,169	21.37	25,591	1,204	21.16	26,339	1,264	20.96	26,861	1,285	20.75	27,367	1,325	20.55
23°F (-5°C)	14,682	1,180	12.44	24,049	1,109	21.70	24,809	1,170	21.25	25,214	1,195	21.04	25,704	1,227	20.84	26,436	1,285	20.64	26,997	1,311	20.44	27,518	1,350	20.24
32°F (0°C)	14,696	1,169	12.57	24,104	1,339	18.17	24,889	1,387	17.79	25,257	1,436	17.62	25,778	1,468	17.45	26,523	1,540	17.28	27,031	1,582	17.11	27,594	1,618	16.95
50°F (10°C)	16,251	1,312	12.38	24,293	1,528	15.85	25,077	1,612	15.53	25,436	1,645	15.38	25,951	1,696	15.23	26,766	1,783	15.08	27,260	1,828	14.93	27,791	1,892	14.79
68°F (20°C)	17,759	1,623	10.94	27,803	2,692	10.28	28,692	2,839	10.07	29,130	2,911	9.97	29,658	3,002	9.87	30,546	3,115	9.78	31,187	3,217	9.68	31,827	3,305	9.59
86°F (30°C)	16,692	1,950	8.56	32,836	3,755	8.76	33,823	3,934	8.58	34,393	4,055	8.50	35,062	4,156	8.41	36,130	4,332	8.33	36,841	4,454	8.25	37,551	4,606	8.17
95°F (35°C)	15,473	2,166	7.14	35,613	4,334	8.22	36,715	4,569	8.05	37,265	4,686	7.98	38,039	4,825	7.90	39,187	5,010	7.82	39,952	5,150	7.75	40,746	5,314	7.67
104°F (40°C)	15,649	2,283	6.85	33,742	4,310	7.81	34,756	4,536	7.65	35,289	4,651	7.57	36,044	4,812	7.50	37,133	5,006	7.43	37,874	5,133	7.36	38,614	5,300	7.28
110°F (43°C)	15,834	2,338	6.77	30,716	4,046	7.59	31,662	4,268	7.43	32,110	4,353	7.36	32,793	4,488	7.29	33,737	4,669	7.22	34,443	4,817	7.15	35,120	4,950	7.08
115°F (46°C)	16,148	2,488	6.49	27,612	3,774	7.33	28,492	3,956	7.18	28,906	4,058	7.11	29,488	4,196	7.04	30,354	4,364	6.98	31,017	4,478	6.91	31,602	4,614	6.84

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	15,166	1,054	14.38	23,967	1,098	21.87	24,745	1,163	21.42	25,135	1,175	21.21	25,580	1,212	21.00	26,353	1,269	20.80	26,880	1,292	20.60	27,472	1,350	20.40
14°F (-10°C)	15,130	1,044	14.50	23,773	1,116	21.25	24,554	1,181	20.81	24,904	1,194	20.61	25,357	1,232	20.41	26,152	1,293	20.21	26,674	1,322	20.01	27,212	1,360	19.82
23°F (-5°C)	14,673	1,159	12.66	23,875	1,153	20.93	24,610	1,211	20.49	25,022	1,232	20.29	25,490	1,273	20.10	26,263	1,310	19.90	26,785	1,361	19.71	27,332	1,388	19.52
32°F (0°C)	14,694	1,180	12.45	23,972	1,371	17.52	24,690	1,427	17.16	25,103	1,483	16.99	25,613	1,528	16.83	26,324	1,580	16.66	26,862	1,628	16.50	27,413	1,681	16.34
50°F (10°C)	16,201	1,297	12.49	24,147	1,571	15.29	24,931	1,649	14.97	25,315	1,700	14.83	25,766	1,766	14.68	26,537	1,831	14.54	27,109	1,878	14.40	27,644	1,936	14.26
68°F (20°C)	17,799	1,618	11.00	27,562	2,841	9.69	28,355	2,999	9.49	28,817	3,063	9.40	29,363	3,145	9.31	30,282	3,274	9.22	30,903	3,383	9.13	31,469	3,478	9.04
86°F (30°C)	16,673	1,955	8.53	32,518	3,904	8.31	33,508	4,115	8.13	34,040	4,217	8.06	34,677	4,348	7.98	35,741	4,521	7.90	36,428	4,670	7.82	37,177	4,803	7.75
95°F (35°C)	15,418	2,167	7.12	35,272	4,545	7.75	36,352	4,779	7.59	36,916	4,910	7.52	37,685	5,065	7.45	38,816	5,264	7.38	39,537	5,420	7.30	40,333	5,575	7.23
104°F (40°C)	15,673	2,280	6.88	33,430	4,485	7.43	34,473	4,730	7.28	34,971	4,845	7.21	35,634	5,005	7.14	36,720	5,191	7.07	37,475	5,361	7.00	38,205	5,504	6.93
110°F (43°C)	15,829	2,338	6.77	30,355	4,179	7.25	31,293	4,410	7.10	31,828	4,524	7.03	32,450	4,662	6.97	33,378	4,834	6.90	34,064	4,998	6.83	34,731	5,134	6.77
115°F (46°C)	16,139	2,501	6.45	27,361	3,879	7.05	28,179	4,088	6.90	28,660	4,197	6.84	29,178	4,312	6.77	30,063	4,497	6.70	30,663	4,625	6.64	31,320	4,754	6.57

30000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / AW30TL2HFA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	19,362	3,471	1.63	18,803	3,544	1.56	18,487	3,629	1.49	18,085	3,686	1.44	17,701	3,748	1.39	17,463	3,820	1.34	17,191	3,892	1.30
-5°F(-21°C)	23,462	3,649	1.88	22,743	3,725	1.79	22,304	3,803	1.72	21,864	3,867	1.66	21,438	3,951	1.59	21,135	4,028	1.54	20,802	4,085	1.49
0°F(-18°C)	27,446	3,847	2.10	26,666	3,915	1.99	26,114	4,003	1.92	25,603	4,049	1.85	25,103	4,131	1.78	24,767	4,226	1.72	24,369	4,282	1.67
5°F(-15°C)	28,917	4,012	2.12	28,068	4,094	2.02	27,529	4,170	1.94	27,002	4,226	1.87	26,442	4,306	1.80	26,040	4,411	1.73	25,648	4,456	1.68
14°F(-10°C)	28,244	3,889	2.14	27,443	3,958	2.03	26,904	4,052	1.95	26,402	4,102	1.89	25,845	4,177	1.81	25,462	4,259	1.75	25,060	4,325	1.70
23°F(-5°C)	29,068	3,485	2.44	28,264	3,573	2.32	27,664	3,653	2.23	27,152	3,703	2.15	26,569	3,778	2.07	26,205	3,834	2.00	25,783	3,915	1.94
32°F(0°C)	29,516	3,110	2.78	28,418	3,322	2.51	28,122	3,440	2.40	27,374	3,351	2.39	26,994	3,362	2.35	26,278	3,453	2.23	25,902	3,390	2.24
41°F(5°C)	31,940	2,907	3.22	30,896	3,067	2.95	30,357	2,995	2.97	29,750	3,042	2.87	29,145	3,124	2.73	28,629	3,147	2.67	28,022	3,245	2.53
47°F(8°C)	34,142	2,698	3.71	33,199	3,026	3.22	32,401	2,949	3.22	32,001	2,766	3.39	31,277	2,898	3.16	30,558	3,017	2.97	30,346	3,293	2.70
55°F(13°C)	33,574	2,559	3.85	32,782	2,862	3.36	32,301	2,725	3.47	31,347	2,998	3.06	30,723	2,746	3.28	30,569	2,978	3.01	30,073	2,922	3.02
65°F(18°C)	33,038	2,433	3.98	31,954	2,378	3.94	31,357	2,733	3.36	31,013	2,846	3.19	30,325	2,612	3.40	29,866	2,580	3.39	29,256	2,631	3.26
75°F(24°C)	30,989	2,076	4.37	30,258	2,364	3.75	29,652	2,196	3.96	29,132	2,112	4.04	28,291	2,236	3.71	28,126	2,565	3.21	27,474	2,375	3.39

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	19,969	3,513	1.66	19,421	3,582	1.58	19,007	3,642	1.53	18,608	3,692	1.48	18,297	3,782	1.42	17,947	3,849	1.37	17,689	3,899	1.33
-5°F(-21°C)	23,663	3,706	1.87	22,986	3,784	1.78	22,516	3,831	1.72	22,083	3,909	1.66	21,672	3,972	1.59	21,326	4,037	1.54	20,990	4,101	1.50
0°F(-18°C)	28,035	3,889	2.11	27,185	3,985	2.01	26,654	4,029	1.94	26,120	4,106	1.87	25,596	4,175	1.80	25,203	4,258	1.74	24,883	4,329	1.69
5°F(-15°C)	29,353	4,068	2.12	28,496	4,160	2.01	27,944	4,211	1.94	27,388	4,269	1.88	26,858	4,351	1.80	26,377	4,432	1.74	26,062	4,511	1.69

30000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYM30UCDDA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Wired Controller

Controller must be ordered separately.

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A

Uses snow hood UAWB85A

Supply Plenum

UAPT3048A

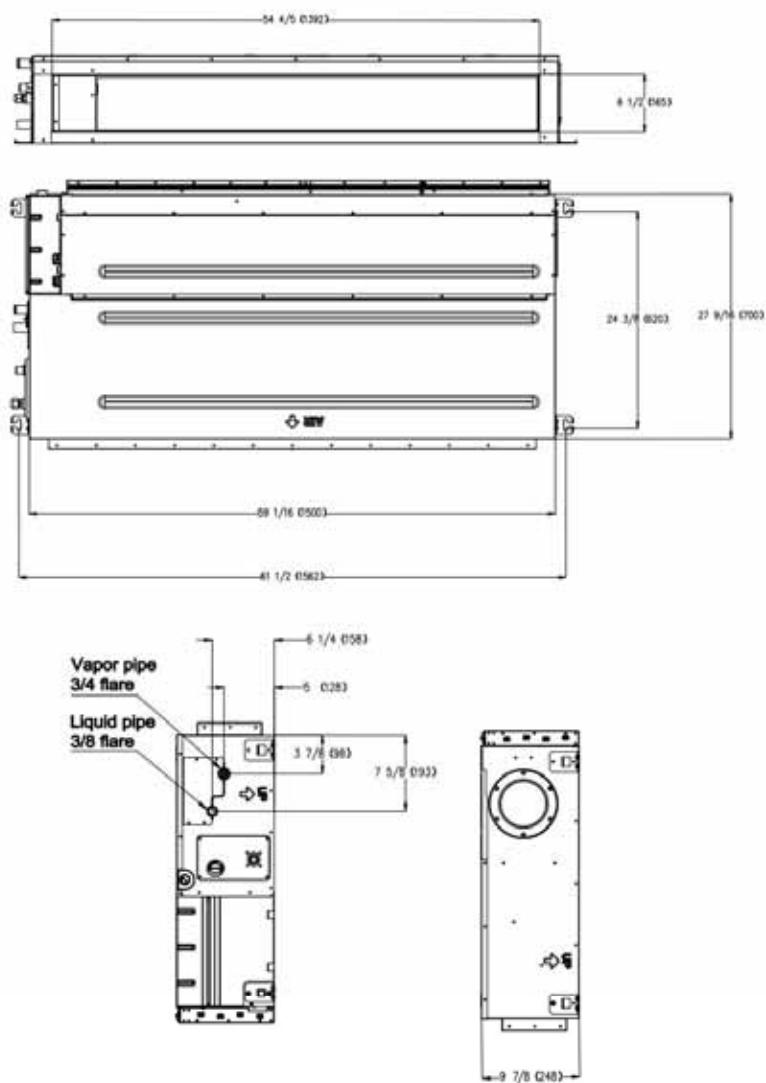
Filter Box

UAMFB3048A

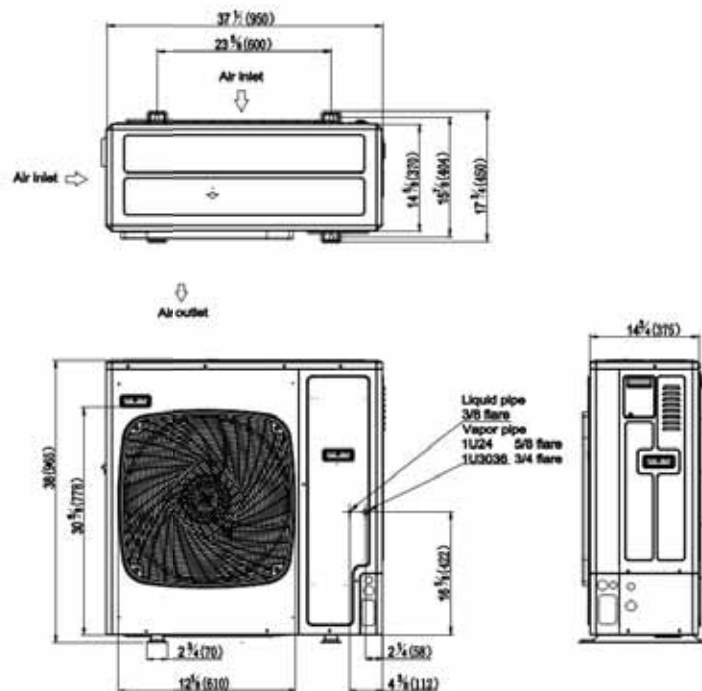
Operating Range	Cooling w/o Wind Baffle °F (°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F (°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~4°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	30,000
	Capacity Range Btu/hr	12,000~32,000
	SEER2/EER2	15.2/9.0
	Rated Power Input W	3,340
Heating	Moisture Removal Pt./hr	9.6
	Rated Heating Capacity 47°F Btu/hr	32,000
	Heating Capacity Range Btu/hr	6,500~32,500
	HSPF2 (I/V)HSPF2 (V)	9.0/7.3
Outdoor Unit	Rated Power Input W	2,800
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	30
	Minimum Circuit AmpA	26
	Outdoor Noise Level dB	60
	Dimension: H x W x D in (mm)	37 7/8 x 37 1/2 x 14 5/8 (965 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	46 3/8 x 41 3/8 x 19 1/8 (1175 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	196/158 (89/72)
	Base Pan Heater	Built-in
	Fan Speed Stages	5 + Auto
Indoor Unit	Airflow CFM (Turbo/High/Med/Low/Quiet)	1236/1130/953/812/688
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1010/970/850/760/700
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	46/45/41/38/36
	Dimension: H x W x D in (mm)	9 7/8 x 59 1/8 x 37 5/8 (248 x 1500 x 700)
	Carton Dimension: H x W x D in (mm)	13 7/8 x 67 3/8 x 34 1/8 (350 x 1710 x 866)
	Weight Ship/Net - lbs (kg)	159/119 (72/54)
	Max. External Static Pressure in.W.G (Pa)	0.6 (150)
	Internal Condensate Pump	Standard
	Drain Pipe Size O.D in	1 1/4
	Max. Drain-lift height in (mm)	39 3/8 (1000)
Piping	Line Size: Liquid (Suction) in.	3/8 (3/4)
	IDU Flare Size: Liquid (Suction) in.	3/8 (3/4)
	ODU Port Size: Liquid (Suction) in.	3/8 (3/4)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (88.0)
	Max. Line Length/Height Ft (mm)	165/100 (50/30)

30000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYM30UCDDA

INDOOR UNIT



OUTDOOR UNIT



30000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYM30UCDDA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	20,103	978	20.56	20,724	1,029	20.13	21,365	1,084	19.72	21,686	1,111	19.53	22,120	1,144	19.34	22,451	1,178	19.06	22,788	1,214	18.78	23,244	1,256	18.51
32°F (0°C)	21,150	1,171	18.06	21,804	1,233	17.69	22,478	1,297	17.32	22,816	1,330	17.16	23,272	1,370	16.99	23,621	1,411	16.74	23,975	1,453	16.50	24,455	1,504	16.26
50°F (10°C)	21,987	1,352	16.26	22,667	1,424	15.92	23,368	1,499	15.59	23,718	1,536	15.44	24,193	1,582	15.29	24,556	1,630	15.07	24,924	1,678	14.85	25,422	1,737	14.63
68°F (20°C)	23,373	1,979	11.81	24,096	2,083	11.57	24,841	2,193	11.33	25,214	2,247	11.22	25,718	2,315	11.11	26,104	2,384	10.95	26,495	2,456	10.79	27,025	2,542	10.63
86°F (30°C)	27,779	2,652	10.48	28,638	2,791	10.26	29,523	2,938	10.05	29,966	3,012	9.95	30,566	3,102	9.85	31,024	3,195	9.71	31,489	3,291	9.57	32,119	3,406	9.43
95°F (35°C)	28,098	2,888	9.73	28,967	3,040	9.53	29,863	3,200	9.33	30,311	3,280	9.24	30,917	3,378	9.15	31,381	3,480	9.02	31,852	3,584	8.89	32,489	3,710	8.76
104°F (40°C)	28,712	2,993	9.59	29,600	3,151	9.39	30,515	3,317	9.20	30,973	3,400	9.11	31,593	3,502	9.02	32,066	3,607	8.89	32,547	3,715	8.76	33,198	3,845	8.63
110°F (43°C)	27,224	2,859	9.52	28,066	3,010	9.33	28,934	3,168	9.13	29,368	3,247	9.04	29,956	3,345	8.96	30,405	3,445	8.83	30,861	3,548	8.70	31,478	3,672	8.57
115°F (46°C)	25,737	2,725	9.45	26,533	2,868	9.25	27,353	3,019	9.06	27,764	3,094	8.97	28,319	3,187	8.88	28,744	3,283	8.76	29,175	3,381	8.63	29,758	3,500	8.50

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	22,014	1,033	21.31	22,695	1,087	20.87	23,397	1,145	20.44	23,748	1,173	20.24	24,223	1,208	20.04	24,950	1,257	19.85	25,449	1,295	19.66	25,958	1,333	19.47
14°F (-10°C)	22,064	1,054	20.93	22,747	1,110	20.50	23,450	1,168	20.08	23,802	1,197	19.88	24,278	1,233	19.69	25,006	1,282	19.50	25,506	1,321	19.31	26,017	1,361	19.12
23°F (-5°C)	22,178	1,076	20.62	22,864	1,132	20.19	23,571	1,192	19.78	23,925	1,222	19.58	24,403	1,258	19.39	25,135	1,309	19.21	25,638	1,348	19.02	26,151	1,388	18.84
32°F (0°C)	22,241	1,288	17.27	22,929	1,356	16.91	23,638	1,427	16.56	23,993	1,463	16.40	24,473	1,507	16.24	25,207	1,567	16.09	25,711	1,614	15.93	26,225	1,663	15.77
50°F (10°C)	22,427	1,488	15.07	23,120	1,566	14.76	23,835	1,648	14.46	24,193	1,690	14.32	24,677	1,740	14.18	25,417	1,810	14.04	25,925	1,864	13.91	26,444	1,920	13.77
68°F (20°C)	23,139	2,078	11.14	23,855	2,187	10.91	24,593	2,302	10.68	24,962	2,360	10.58	25,461	2,431	10.47	26,225	2,528	10.37	26,749	2,604	10.27	27,284	2,682	10.17
86°F (30°C)	27,421	2,761	9.93	28,269	2,907	9.73	29,143	3,060	9.53	29,580	3,136	9.43	30,172	3,230	9.34	31,077	3,359	9.25	31,699	3,460	9.16	32,333	3,564	9.07
95°F (35°C)	27,536	3,032	9.08	28,388	3,192	8.89	29,266	3,360	8.71	29,705	3,444	8.63	30,299	3,547	8.54	31,208	3,689	8.46	31,832	3,800	8.38	32,469	3,914	8.30
104°F (40°C)	28,275	3,099	9.12	29,149	3,263	8.93	30,051	3,434	8.75	30,502	3,520	8.66	31,112	3,626	8.58	32,045	3,771	8.50	32,686	3,884	8.42	33,340	4,000	8.33
110°F (43°C)	26,877	2,939	9.14	27,708	3,094	8.96	28,565	3,257	8.77	28,994	3,338	8.69	29,574	3,438	8.60	30,461	3,576	8.52	31,070	3,683	8.44	31,692	3,794	8.35
115°F (46°C)	25,479	2,779	9.17	26,267	2,925	8.98	27,080	3,079	8.79	27,486	3,156	8.71	28,036	3,251	8.62	28,877	3,381	8.54	29,454	3,483	8.46	30,043	3,587	8.38

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	22,107	1,054	20.98	22,790	1,109	20.55	23,495	1,168	20.12	23,848	1,197	19.93	24,325	1,233	19.73	25,054	1,282	19.54	25,555	1,320	19.35	26,067	1,360	19.17
14°F (-10°C)	21,907	1,086	20.18	22,585	1,143	19.76	23,283	1,203	19.35	23,632	1,233	19.16	24,105	1,270	18.98	24,828	1,321	18.80	25,325	1,361	18.61	25,831	1,401	18.43
23°F (-5°C)	22,021	1,108	19.88	22,702	1,166	19.47	23,404	1,228	19.06	23,755	1,258	18.88	24,230	1,296	18.70	24,957	1,348	18.52	25,456	1,388	18.34	25,966	1,430	18.16
32°F (0°C)	22,084	1,327	16.65	22,767	1,397	16.30	23,471	1,470	15.97	23,823	1,507	15.81	24,300	1,552	15.66	25,029	1,614	15.51	25,529	1,663	15.36	26,040	1,712	15.21
50°F (10°C)	22,269	1,532	14.53	22,958	1,613	14.23	23,668	1,698	13.94	24,023	1,740	13.80	24,504	1,793	13.67	25,239	1,864	13.54	25,744	1,920	13.41	26,258	1,978	13.28
68°F (20°C)	22,908	2,182	10.50	23,616	2,297	10.28	24,347	2,417	10.07	24,712	2,478	9.97	25,206	2,552	9.88	25,962	2,654	9.78	26,482	2,734	9.69	27,011	2,816	9.59
86°F (30°C)	27,147	2,883	9.41	27,986	3,035	9.22	28,852	3,195	9.03	29,285	3,275	8.94	29,870	3,373	8.86	30,766	3,508	8.77	31,382	3,613	8.69	32,009	3,722	8.60
95°F (35°C)	27,261	3,184	8.56	28,104	3,352	8.39	28,973	3,528	8.21	29,408	3,616	8.13	29,996	3,725	8.05	30,896	3,874	7.98	31,514	3,990	7.90	32,144	4,110	7.82
104°F (40°C)	27,992	3,225	8.68	28,858	3,395	8.50	29,750	3,573	8.33	30,197	3,663	8.24	30,801	3,772	8.16	31,725	3,923	8.09	32,359	4,041	8.01	33,006	4,162	7.93
110°F (43°C)	26,608	3,044	8.74	27,431	3,204	8.56	28,280	3,372	8.39	28,704	3,457	8.30	29,278	3,560	8.22	30,156	3,703	8.14	30,760	3,814	8.06	31,375	3,928	7.99
115°F (46°C)	25,225	2,863	8.81	26,005	3,013	8.63	26,809	3,172	8.45	27,211	3,251	8.37	27,755	3,349	8.29	28,588	3,483	8.21	29,160	3,587	8.13	29,743	3,695	8.05

30000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYM30UCDDA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	19,858	3,487	1.67	19,280	3,558	1.59	18,902	3,631	1.53	18,531	3,686	1.47	18,160	3,760	1.42	17,888	3,835	1.37	17,620	3,892	1.33
-5°F(-21°C)	21,614	3,430	1.85	20,985	3,500	1.76	20,573	3,572	1.69	20,170	3,626	1.63	19,767	3,699	1.57	19,470	3,773	1.51	19,178	3,829	1.47
0°F(-18°C)	23,371	3,374	2.03	22,690	3,443	1.93	22,245	3,513	1.86	21,809	3,566	1.79	21,373	3,638	1.72	21,052	3,710	1.66	20,737	3,766	1.61
5°F(-15°C)	24,601	3,514	2.05	23,884	3,586	1.95	23,416	3,659	1.88	22,957	3,715	1.81	22,498	3,789	1.74	22,160	3,865	1.68	21,828	3,923	1.63
14°F(-10°C)	24,970	3,409	2.15	24,243	3,479	2.04	23,767	3,549	1.96	23,301	3,604	1.90	22,835	3,676	1.82	22,493	3,749	1.76	22,155	3,805	1.71
23°F(-5°C)	26,569	3,271	2.38	25,795	3,338	2.26	25,289	3,406	2.18	24,794	3,458	2.10	24,298	3,527	2.02	23,933	3,598	1.95	23,574	3,652	1.89
32°F(0°C)	28,537	3,134	2.67	27,706	3,198	2.54	27,163	3,263	2.44	26,630	3,313	2.36	26,097	3,379	2.26	25,706	3,446	2.19	25,320	3,498	2.12
41°F(5°C)	31,828	2,928	3.19	30,901	2,987	3.03	30,296	3,048	2.91	29,702	3,095	2.81	29,107	3,157	2.70	28,671	3,220	2.61	28,241	3,268	2.53
47°F(8°C)	35,120	2,722	3.78	34,097	2,777	3.60	33,428	2,834	3.46	32,773	2,877	3.34	32,118	2,935	3.21	31,636	2,993	3.10	31,161	3,038	3.01
55°F(13°C)	34,769	2,586	3.94	33,756	2,638	3.75	33,094	2,692	3.60	32,445	2,733	3.48	31,796	2,788	3.34	31,319	2,844	3.23	30,850	2,886	3.13
65°F(18°C)	34,073	2,456	4.07	33,081	2,506	3.87	32,432	2,558	3.72	31,796	2,596	3.59	31,160	2,648	3.45	30,693	2,701	3.33	30,233	2,742	3.23
75°F(24°C)	32,029	2,088	4.50	31,096	2,130	4.28	30,486	2,174	4.11	29,889	2,207	3.97	29,291	2,251	3.81	28,851	2,296	3.68	28,419	2,331	3.57

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	20,454	3,529	1.70	19,858	3,601	1.62	19,469	3,656	1.56	19,087	3,712	1.51	18,705	3,786	1.45	18,406	3,854	1.40	18,148	3,912	1.36
-5°F(-21°C)	21,831	3,477	1.84	21,195	3,548	1.75	20,779	3,602	1.69	20,372	3,657	1.63	19,964	3,730	1.57	19,645	3,797	1.52	19,370	3,854	1.47
0°F(-18°C)	23,838	3,426	2.04	23,144	3,496	1.94	22,690	3,549	1.87	22,245	3,603	1.81	21,800	3,675	1.74	21,452	3,742	1.68	21,151	3,798	1.63
5°F(-15°C)	24,970	3,575	2.05	24,243	3,648	1.95	23,767	3,704	1.88	23,301	3,760	1.82	22,835	3,835	1.75	22,470	3,904	1.69	22,155	3,963	1.64

30000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYL30UCDDA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Standard Remote Control (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A

Uses snow hood UAWB85A

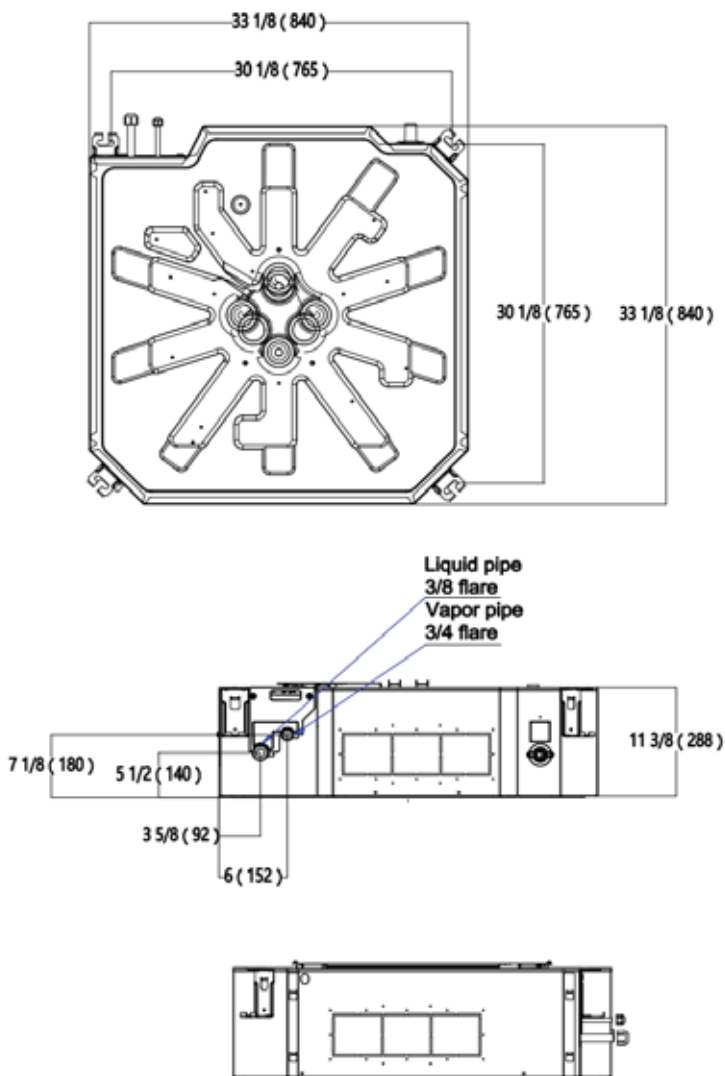
Panel

PB-950KD is required to complete the installation and it must be ordered separately

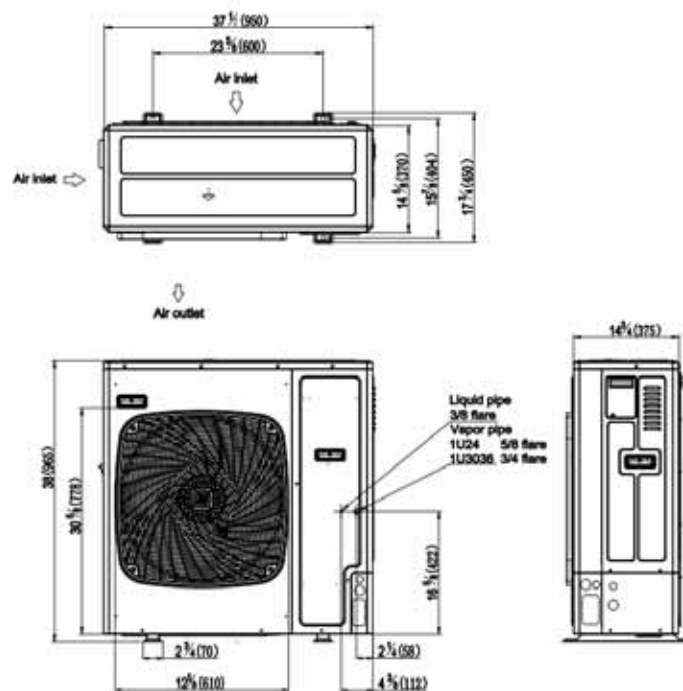
Operating Range	Cooling w/o Wind Baffle °F (°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F (°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~4°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	30,000
	Capacity Range Btu/hr	11,500~31,500
	SEER2/EER2	18.0/10.6
	Rated Power Input W	2,830
Heating	Moisture Removal Pt./hr	9.8
	Rated Heating Capacity 47°F Btu/hr	31,000
	Heating Capacity Range Btu/hr	5,500~33,000
	HSPF2 (I)/HSPF2 (V)	9.2/7.4
Outdoor Unit	Rated Power Input W	2,800
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	30
	Minimum Circuit AmpA	26
Indoor Unit	Dimension: H x W x D in (mm)	37 7/8 x 37 1/2 x 14 5/8 (965 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	46 3/8 x 41 3/8 x 19 1/8 (1175 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	196/158 (89/72)
	Base Pan Heater	Built-in
Indoor Unit	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low)	967/871/780/710
	Indoor Motor Speed RPM (Turbo/High/Med/Low)	730/650/550/450
	Indoor Sound Level dB (Turbo/High/Med/Low)	51/50/48/46
Indoor Unit	Dimension: H x W x D in (mm)	11 3/8 x 33 1/8 x 33 1/8 (246 x 840 x 840)
	Carton Dimension: H x W x D in (mm)	15 1/2 x 38 5/8 x 38 5/8 (350 x 980 x 980)
	Drain Pipe Size O.D in	1 1/4
	Internal Condensate Pump	Standard
Indoor Unit	Max. Drain-Lift height in(mm)	39 3/8 (1000)
	Weight Ship/Net - lbs	94/67 (43/30)
	Model Number	PB-950KD
Piping	Line Size: Liquid (Suction) in.	3/8 (3/4)
	IDU Flare Size: Liquid (Suction) in.	3/8 (3/4)
	ODU Port Size: Liquid (Suction) in.	3/8 (3/4)
	Lineset Adapter Required	None
Piping	Refrigerant (Factory Charge Oz.)	R410A (88.0)
	Max. Line Length/Height Ft (mm)	165/100 (50/30)

30000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYL30UCDDA

INDOOR UNIT



OUTDOOR UNIT



30000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYL30UCDDA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	21,161	958	22.08	21,815	1,009	21.62	22,490	1,062	21.18	22,827	1,089	20.97	23,284	1,121	20.77	23,633	1,155	20.46	23,988	1,189	20.17	24,467	1,231	19.87
32°F (0°C)	22,263	1,148	19.40	22,952	1,208	19.00	23,662	1,272	18.60	24,017	1,304	18.42	24,497	1,343	18.24	24,864	1,383	17.98	25,237	1,425	17.72	25,742	1,474	17.46
50°F (10°C)	23,144	1,326	17.46	23,860	1,396	17.10	24,598	1,469	16.74	24,967	1,506	16.58	25,466	1,551	16.42	25,848	1,597	16.18	26,236	1,645	15.95	26,761	1,703	15.71
68°F (20°C)	23,756	1,764	13.47	24,491	1,857	13.19	25,248	1,955	12.92	25,627	2,004	12.79	26,139	2,064	12.67	26,531	2,126	12.48	26,929	2,190	12.30	27,468	2,266	12.12
86°F (30°C)	28,272	2,330	12.13	29,147	2,453	11.88	30,048	2,582	11.64	30,499	2,646	11.53	31,109	2,726	11.41	31,576	2,807	11.25	32,049	2,892	11.08	32,690	2,993	10.92
95°F (35°C)	27,761	2,455	11.31	28,620	2,584	11.08	29,505	2,720	10.85	29,948	2,788	10.74	30,547	2,872	10.64	31,005	2,958	10.48	31,470	3,047	10.33	32,099	3,153	10.18
104°F (40°C)	29,255	2,604	11.23	30,159	2,742	11.00	31,092	2,886	10.77	31,559	2,958	10.67	32,190	3,047	10.57	32,673	3,138	10.41	33,163	3,232	10.26	33,826	3,345	10.11
110°F (43°C)	28,173	2,517	11.20	29,044	2,649	10.96	29,943	2,788	10.74	30,392	2,858	10.63	31,000	2,944	10.53	31,465	3,032	10.38	31,937	3,123	10.23	32,575	3,232	10.08
115°F (46°C)	27,091	2,429	11.15	27,929	2,556	10.92	28,793	2,691	10.70	29,225	2,758	10.60	29,809	2,841	10.49	30,257	2,926	10.34	30,710	3,014	10.19	31,325	3,120	10.04

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	23,195	1,013	22.91	23,912	1,066	22.44	24,652	1,122	21.97	25,022	1,150	21.76	25,522	1,184	21.55	26,288	1,232	21.34	26,814	1,269	21.13	27,350	1,307	20.93
14°F (-10°C)	23,245	1,033	22.50	23,964	1,088	22.03	24,705	1,145	21.58	25,076	1,173	21.37	25,577	1,209	21.16	26,344	1,257	20.96	26,871	1,295	20.75	27,409	1,334	20.55
23°F (-5°C)	23,359	1,054	22.16	24,081	1,110	21.70	24,826	1,168	21.25	25,198	1,197	21.04	25,702	1,233	20.84	26,473	1,283	20.64	27,003	1,321	20.44	27,543	1,361	20.24
32°F (0°C)	23,422	1,263	18.55	24,146	1,329	18.17	24,893	1,399	17.79	25,266	1,434	17.62	25,772	1,477	17.45	26,545	1,536	17.28	27,076	1,582	17.11	27,617	1,630	16.95
50°F (10°C)	23,607	1,458	16.19	24,337	1,535	15.85	25,090	1,616	15.53	25,466	1,656	15.38	25,976	1,706	15.23	26,755	1,774	15.08	27,290	1,827	14.93	27,836	1,882	14.79
68°F (20°C)	23,518	1,852	12.70	24,246	1,950	12.43	24,996	2,053	12.18	25,371	2,104	12.06	25,878	2,167	11.94	26,654	2,254	11.83	27,187	2,321	11.71	27,731	2,391	11.60
86°F (30°C)	27,911	2,426	11.51	28,774	2,553	11.27	29,664	2,688	11.04	30,109	2,755	10.93	30,711	2,838	10.82	31,632	2,951	10.72	32,265	3,040	10.61	32,910	3,131	10.51
95°F (35°C)	27,206	2,578	10.56	28,047	2,713	10.34	28,915	2,856	10.12	29,349	2,927	10.03	29,936	3,015	9.93	30,834	3,136	9.83	31,450	3,230	9.74	32,079	3,327	9.64
104°F (40°C)	28,814	2,696	10.69	29,705	2,838	10.47	30,624	2,987	10.25	31,083	3,062	10.15	31,705	3,154	10.05	32,656	3,280	9.96	33,309	3,378	9.86	33,975	3,480	9.76
110°F (43°C)	27,817	2,587	10.75	28,678	2,723	10.53	29,565	2,866	10.32	30,008	2,938	10.22	30,608	3,026	10.12	31,526	3,147	10.02	32,157	3,241	9.92	32,800	3,338	9.83
115°F (46°C)	26,820	2,477	10.83	27,650	2,608	10.60	28,505	2,745	10.39	28,933	2,813	10.28	29,511	2,898	10.18	30,397	3,014	10.09	31,005	3,104	9.99	31,625	3,197	9.89

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	23,287	1,043	22.33	24,007	1,098	21.87	24,750	1,156	21.42	25,121	1,184	21.21	25,624	1,220	21.00	26,392	1,269	20.80	26,920	1,307	20.60	27,459	1,346	20.40
14°F (-10°C)	23,088	1,064	21.69	23,802	1,120	21.25	24,538	1,179	20.81	24,906	1,209	20.61	25,404	1,245	20.41	26,166	1,295	20.21	26,690	1,334	20.01	27,223	1,374	19.82
23°F (-5°C)	23,202	1,086	21.37	23,919	1,143	20.93	24,659	1,203	20.49	25,029	1,233	20.29	25,529	1,270	20.10	26,295	1,321	19.90	26,821	1,361	19.71	27,358	1,402	19.52
32°F (0°C)	23,265	1,300	17.89	23,984	1,369	17.52	24,726	1,441	17.16	25,097	1,477	16.99	25,599	1,521	16.83	26,367	1,582	16.66	26,894	1,630	16.50	27,432	1,679	16.34
50°F (10°C)	23,450	1,502	15.61	24,175	1,581	15.29	24,923	1,664	14.97	25,297	1,706	14.83	25,803	1,757	14.68	26,577	1,827	14.54	27,108	1,882	14.40	27,651	1,939	14.26
68°F (20°C)	23,283	1,945	11.97	24,003	2,047	11.72	24,746	2,155	11.48	25,117	2,209	11.37	25,619	2,275	11.26	26,388	2,366	11.15	26,915	2,437	11.04	27,454	2,511	10.94
86°F (30°C)	27,632	2,533	10.91	28,486	2,666	10.68	29,367	2,807	10.46	29,808	2,877	10.36	30,404	2,963	10.26	31,316	3,082	10.16	31,942	3,174	10.06	32,581	3,269	9.97
95°F (35°C)	26,934	2,706	9.95	27,767	2,849	9.75	28,626	2,999	9.55	29,055	3,074	9.45	29,636	3,166	9.36	30,525	3,293	9.27	31,136	3,391	9.18	31,759	3,493	9.09
104°F (40°C)	28,526	2,804	10.17	29,408	2,952	9.96	30,318	3,107	9.76	30,773	3,185	9.66	31,388	3,280	9.57	32,330	3,412	9.48	32,976	3,514	9.38	33,636	3,619	9.29
110°F (43°C)	27,539	2,678	10.28	28,391	2,819	10.07	29,269	2,967	9.86	29,708	3,041	9.77	30,302	3,133	9.67	31,211	3,258	9.58	31,835	3,356	9.49	32,472	3,456	9.40
115°F (46°C)	26,552	2,552	10.41	27,373	2,686	10.19	28,220	2,827	9.98	28,643	2,898	9.88	29,216	2,985	9.79	30,093	3,104	9.69	30,695	3,197	9.60	31,308	3,293	9.51

30000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYL30UCDDA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	19,408	3,480	1.63	18,843	3,551	1.56	18,473	3,624	1.49	18,111	3,679	1.44	17,749	3,753	1.39	17,483	3,828	1.34	17,220	3,885	1.30
-5°F(-21°C)	23,446	3,662	1.88	22,763	3,737	1.79	22,317	3,813	1.72	21,880	3,871	1.66	21,442	3,948	1.59	21,120	4,027	1.54	20,804	4,088	1.49
0°F(-18°C)	27,485	3,843	2.10	26,684	3,922	1.99	26,161	4,002	1.92	25,648	4,063	1.85	25,135	4,144	1.78	24,758	4,227	1.72	24,387	4,290	1.67
5°F(-15°C)	28,931	4,003	2.12	28,089	4,085	2.02	27,538	4,169	1.94	26,998	4,232	1.87	26,458	4,317	1.80	26,061	4,403	1.73	25,670	4,469	1.68
14°F(-10°C)	28,294	3,883	2.14	27,469	3,963	2.03	26,931	4,043	1.95	26,403	4,105	1.89	25,875	4,187	1.81	25,487	4,271	1.75	25,104	4,335	1.70
23°F(-5°C)	29,102	3,499	2.44	28,255	3,570	2.32	27,701	3,643	2.23	27,157	3,698	2.15	26,614	3,772	2.07	26,215	3,848	2.00	25,822	3,906	1.94
32°F(0°C)	29,273	3,114	2.76	28,421	3,178	2.62	27,863	3,242	2.52	27,317	3,292	2.43	26,771	3,358	2.34	26,369	3,425	2.26	25,973	3,476	2.19
41°F(5°C)	31,642	2,902	3.20	30,720	2,961	3.04	30,118	3,021	2.92	29,528	3,067	2.82	28,937	3,129	2.71	28,503	3,191	2.62	28,075	3,239	2.54
47°F(8°C)	34,011	2,689	3.71	33,020	2,744	3.53	32,373	2,800	3.39	31,738	2,843	3.27	31,103	2,900	3.14	30,637	2,958	3.04	30,177	3,002	2.95
55°F(13°C)	33,671	2,555	3.86	32,690	2,607	3.67	32,049	2,660	3.53	31,421	2,701	3.41	30,792	2,755	3.28	30,331	2,810	3.16	29,876	2,852	3.07
65°F(18°C)	32,998	2,427	3.98	32,036	2,477	3.79	31,408	2,527	3.64	30,792	2,566	3.52	30,177	2,617	3.38	29,724	2,669	3.26	29,278	2,710	3.17
75°F(24°C)	31,018	2,063	4.41	30,114	2,105	4.19	29,524	2,148	4.03	28,945	2,181	3.89	28,366	2,225	3.74	27,940	2,269	3.61	27,521	2,303	3.50

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	19,990	3,523	1.66	19,408	3,595	1.58	19,027	3,649	1.53	18,654	3,705	1.48	18,281	3,779	1.42	17,989	3,847	1.37	17,737	3,905	1.33
-5°F(-21°C)	23,681	3,710	1.87	22,991	3,786	1.78	22,540	3,843	1.72	22,098	3,902	1.66	21,656	3,980	1.59	21,310	4,052	1.54	21,012	4,112	1.50
0°F(-18°C)	28,035	3,898	2.11	27,218	3,978	2.01	26,684	4,038	1.94	26,161	4,100	1.87	25,638	4,182	1.80	25,228	4,257	1.74	24,874	4,321	1.69
5°F(-15°C)	29,365	4,067	2.12	28,510	4,150	2.01	27,951	4,213	1.94	27,403	4,277	1.88	26,855	4,363	1.80	26,425	4,441	1.74	26,055	4,508	1.69

36000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / AW36TL2HFA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Motion Sense Remote (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A

Uses snow hood UAWB85A

Operating Range	Cooling w/o Wind Baffle °F(°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F(°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~46°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	32,400
	Capacity Range Btu/hr	7,200-36,000
	SEER2/EER2	18.0/8.2
	Rated Power Input W	3,960
Heating	Moisture Removal Pt./hr	7.92
	Rated Heating Capacity 47°F Btu/hr	37,000
	Heating Capacity Range Btu/hr	6,500~38,000
	HSPF2 (I)/HSPF2 (V)	9.0/7.3
Outdoor Unit	Rated Power Input W	4,290
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	30
	Minimum Circuit AmpA	26
	Outdoor Noise Level dB	60
	Dimension: H x W x D in (mm)	37 7/8 x 37 1/2 x 14 5/8 (965 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	46 3/8 x 41 3/8 x 19 1/8 (1175 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	196/158 (89/72)
	Base Pan Heater	Built-in
	Fan Speed Stages	5 + Auto
Indoor Unit	Cooling Airflow CFM (Turbo/High/Med/Low/Quiet)	920/875/700/520/440
	Heating Airflow CFM (Turbo/High/Med/Low/Quiet)	
	Cooling Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1250/1200/1000/800/700
	Heating Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	
	Indoor Sound Level dB Cooling (Turbo/High/ Med/Low/Quiet)	56/54/50/44/40
	Indoor Sound Level dB Heating (Turbo/High/ Med/Low/Quiet)	
	Dimension: H x W x D in (mm)	14 1/2 x 51 7/8 x 10 7/8 (365 x 1316 x 275)
	Carton Dimension: H x W x D in (mm)	18 7/8 x 55 7/8 x 15 7/8 (478 x 1418 x 402)
	Weight Ship/Net - lbs (kg)	56.2/46.3 (25.5/21)
	Drainpipe Size O.D. in	3/4
Piping	Line Size: Liquid (Suction) in.	3/8 (5/8)
	IDU Flare Size: Liquid (Suction) in.	3/8 (5/8)
	ODU Port Size: Liquid (Suction) in.	3/8 (3/4)
	Lineset Adapter Required	3/4 to 5/8*
	Refrigerant (Factory Charge Oz.)	R410A (88.0)
	Max. Line Length/Height Ft (mm)	165/100 (50/30)

*Adapter shipped with outdoor unit. Install on outdoor unit.

Technical drawings of the R410A air conditioning unit showing dimensions in inches and millimeters.

Top View Dimensions:

- Overall width: $37\frac{1}{2}$ (950)
- Inner width: $23\frac{5}{8}$ (600)
- Air inlet (top): $14\frac{5}{8}$ (370)
- Overall height: $17\frac{3}{4}$ (450)
- Inner height: $15\frac{7}{8}$ (404)

Front View Dimensions:

- Overall height: 38 (965)
- Inner height: $30\frac{5}{8}$ (778)
- Bottom left width: $2\frac{3}{4}$ (70)
- Bottom right width: $2\frac{1}{4}$ (58)
- Bottom center width: $12\frac{3}{8}$ (610)
- Right side height: $16\frac{5}{8}$ (422)
- Right side bottom width: $4\frac{3}{8}$ (112)

Side View Dimensions:

- Overall width: $14\frac{3}{4}$ (375)

Labels and Notes:

- Air inlet (top)
- Air outlet (bottom)
- Liquid pipe $\frac{3}{8}$ flare
- Vapor pipe 1U24 $\frac{5}{8}$ flare
- 1U3036 $\frac{3}{4}$ flare

36000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / AW36TL2HFA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	14,649	1,166	12.56	22,012	1,025	21.62	23,010	1,065	21.17	23,026	1,104	20.96	23,538	1,139	20.76	23,850	1,157	20.46	24,232	1,187	20.16	24,709	1,241	19.87
32°F (0°C)	14,652	1,175	12.47	23,134	1,213	18.99	23,896	1,281	18.60	24,262	1,316	18.42	24,719	1,354	18.24	25,103	1,399	17.98	25,502	1,425	17.71	25,997	1,498	17.46
50°F (10°C)	16,193	1,312	12.34	24,086	1,416	17.10	24,850	1,469	16.74	25,194	1,509	16.58	25,733	1,561	16.42	26,113	1,607	16.18	26,504	1,654	15.94	27,021	1,709	15.71
68°F (20°C)	17,730	1,615	10.98	27,911	2,589	10.73	28,773	2,748	10.51	29,197	2,812	10.41	29,799	2,881	10.31	30,256	2,983	10.16	30,745	3,075	10.01	31,334	3,176	9.86
86°F (30°C)	16,684	1,961	8.51	33,109	3,645	9.10	34,099	3,815	8.91	34,601	3,919	8.83	35,332	4,050	8.74	35,874	4,149	8.61	36,407	4,291	8.49	37,115	4,437	8.37
95°F (35°C)	15,415	2,171	7.10	35,731	4,158	8.58	36,847	4,386	8.40	37,438	4,494	8.32	38,142	4,623	8.24	38,753	4,759	8.12	39,318	4,911	8.00	40,079	5,089	7.88
104°F (40°C)	15,674	2,286	6.86	34,133	4,208	8.10	35,159	4,437	7.93	35,667	4,544	7.85	36,388	4,676	7.78	36,943	4,821	7.66	37,483	4,971	7.55	38,254	5,149	7.44
110°F (43°C)	15,854	2,353	6.74	31,134	3,975	7.84	32,132	4,179	7.68	32,571	4,279	7.61	33,285	4,402	7.53	33,720	4,558	7.42	34,229	4,695	7.31	34,919	4,846	7.21
115°F (46°C)	16,145	2,495	6.47	28,230	3,744	7.56	29,050	3,922	7.40	29,494	4,024	7.33	30,112	4,152	7.26	30,527	4,275	7.15	31,006	4,398	7.05	31,632	4,554	6.95

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	15,132	1,055	14.34	24,159	1,086	22.43	25,116	1,139	21.97	25,269	1,152	21.76	25,767	1,188	21.54	26,540	1,233	21.34	27,043	1,289	21.13	27,641	1,329	20.93
14°F (-10°C)	15,146	1,056	14.34	24,217	1,101	22.03	24,933	1,147	21.58	25,336	1,180	21.37	25,795	1,222	21.16	26,586	1,270	20.96	27,114	1,305	20.75	27,672	1,357	20.55
23°F (-5°C)	14,690	1,166	12.59	24,292	1,107	21.70	25,098	1,183	21.25	25,450	1,195	21.04	25,941	1,247	20.84	26,723	1,287	20.64	27,248	1,332	20.44	27,777	1,371	20.24
32°F (0°C)	14,691	1,178	12.47	24,343	1,338	18.17	25,115	1,399	17.79	25,538	1,442	17.62	25,984	1,499	17.45	26,803	1,543	17.28	27,370	1,602	17.11	27,882	1,643	16.95
50°F (10°C)	16,249	1,308	12.42	24,570	1,543	15.85	25,341	1,638	15.52	25,678	1,683	15.37	26,245	1,719	15.22	27,037	1,782	15.08	27,521	1,842	14.93	28,114	1,906	14.79
68°F (20°C)	17,732	1,625	10.92	27,627	2,727	10.12	28,535	2,865	9.91	28,907	2,942	9.81	29,476	3,028	9.72	30,362	3,163	9.62	30,982	3,244	9.53	31,632	3,362	9.44
86°F (30°C)	16,658	1,944	8.57	32,662	3,788	8.63	33,682	3,985	8.45	34,162	4,074	8.37	34,882	4,209	8.29	35,871	4,372	8.21	36,651	4,500	8.13	37,320	4,644	8.05
95°F (35°C)	15,445	2,172	7.11	35,017	4,388	8.01	36,155	4,610	7.84	36,641	4,711	7.76	37,386	4,863	7.69	38,514	5,054	7.62	39,299	5,218	7.54	40,112	5,368	7.47
104°F (40°C)	15,688	2,280	6.88	33,559	4,361	7.69	34,622	4,605	7.54	35,124	4,716	7.46	35,818	4,854	7.39	36,898	5,050	7.32	37,689	5,202	7.25	38,375	5,364	7.18
110°F (43°C)	15,847	2,356	6.73	30,761	4,081	7.53	31,718	4,309	7.37	32,167	4,405	7.30	32,793	4,539	7.23	33,791	4,713	7.16	34,471	4,873	7.09	35,138	5,022	7.02
115°F (46°C)	16,109	2,490	6.47	27,905	3,797	7.33	28,745	3,999	7.18	29,197	4,101	7.11	29,787	4,226	7.04	30,691	4,406	6.98	31,326	4,530	6.91	31,942	4,670	6.84

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	15,157	1,047	14.47	24,204	1,111	21.87	24,970	1,155	21.41	25,343	1,192	21.21	25,881	1,233	21.00	26,679	1,281	20.80	27,184	1,307	20.60	27,747	1,348	20.40
14°F (-10°C)	15,148	1,046	14.48	24,005	1,129	21.25	24,747	1,176	20.81	25,132	1,219	20.61	25,648	1,261	20.41	26,389	1,315	20.21	26,945	1,337	20.01	27,466	1,376	19.82
23°F (-5°C)	14,642	1,164	12.58	24,134	1,141	20.92	24,874	1,225	20.49	25,274	1,236	20.29	25,788	1,279	20.09	26,565	1,329	19.90	27,076	1,370	19.71	27,605	1,423	19.52
32°F (0°C)	14,701	1,177	12.49	24,187	1,388	17.52	24,978	1,445	17.16	25,357	1,478	16.99	25,829	1,539	16.83	26,614	1,602	16.66	27,152	1,635	16.50	27,721	1,706	16.34
50°F (10°C)	16,213	1,301	12.47	24,415	1,607	15.29	25,133	1,686	14.97	25,552	1,728	14.83	26,040	1,784	14.68	26,813	1,850	14.54	27,384	1,903	14.40	27,913	1,957	14.26
68°F (20°C)	17,784	1,629	10.92	27,360	2,873	9.54	28,191	3,017	9.34	28,610	3,085	9.25	29,222	3,196	9.16	30,078	3,320	9.07	30,707	3,414	8.99	31,322	3,516	8.90
86°F (30°C)	16,661	1,956	8.52	32,322	3,956	8.18	33,345	4,149	8.01	33,835	4,268	7.93	34,533	4,387	7.85	35,515	4,569	7.78	36,267	4,711	7.70	36,969	4,850	7.63
95°F (35°C)	15,452	2,177	7.10	34,678	4,588	7.55	35,800	4,849	7.39	36,304	4,963	7.32	37,046	5,102	7.25	38,129	5,318	7.18	38,874	5,468	7.11	39,667	5,631	7.04
104°F (40°C)	15,699	2,273	6.91	33,225	4,548	7.32	34,288	4,777	7.17	34,760	4,900	7.10	35,477	5,049	7.03	36,567	5,246	6.96	37,306	5,400	6.89	38,017	5,573	6.83
110°F (43°C)	15,827	2,348	6.74	30,437	4,225	7.19	31,377	4,442	7.05	31,883	4,566	6.98	32,455	4,706	6.91	33,462	4,896	6.84	34,132	5,025	6.78	34,846	5,176	6.71
115°F (46°C)	16,142	2,502	6.45	27,619	3,918	7.05	28,489	4,131	6.90	28,938	4,239	6.84	29,504	4,347	6.77	30,416	4,525	6.71	31,010	4,656	6.64	31,616	4,817	6.58

36000 BTU/HR HIGHWALL INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / AW36TL2HFA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	20,060	3,485	1.68	19,491	3,549	1.60	19,100	3,630	1.54	18,695	3,676	1.49	18,348	3,758	1.43	18,059	3,840	1.38	17,786	3,896	1.34
-5°F(-21°C)	23,554	3,641	1.90	22,856	3,717	1.81	22,407	3,785	1.74	21,957	3,835	1.68	21,555	3,930	1.61	21,228	4,004	1.56	20,901	4,059	1.51
0°F(-18°C)	27,081	3,776	2.10	26,292	3,865	1.99	25,736	3,942	1.92	25,221	4,009	1.85	24,703	4,065	1.78	24,353	4,157	1.72	23,975	4,221	1.67
5°F(-15°C)	28,484	3,945	2.12	27,620	4,017	2.02	27,112	4,100	1.94	26,605	4,174	1.87	26,056	4,250	1.80	25,673	4,325	1.74	25,284	4,402	1.68
14°F(-10°C)	28,048	3,828	2.15	27,242	3,900	2.05	26,665	3,973	1.97	26,128	4,027	1.90	25,630	4,119	1.82	25,261	4,204	1.76	24,889	4,267	1.71
23°F(-5°C)	29,031	3,486	2.44	28,157	3,565	2.32	27,607	3,635	2.23	27,098	3,674	2.16	26,568	3,746	2.07	26,140	3,817	2.00	25,744	3,880	1.94
32°F(0°C)	29,469	3,136	2.75	28,846	3,432	2.46	28,079	3,403	2.42	27,732	3,524	2.31	27,322	3,372	2.38	26,599	3,723	2.09	26,183	3,801	2.02
41°F(5°C)	35,362	3,274	3.17	34,333	3,287	3.06	33,359	3,403	2.87	32,836	3,469	2.77	32,020	3,548	2.65	31,861	3,591	2.60	31,368	3,581	2.57
47°F(8°C)	40,563	3,423	3.47	39,428	3,405	3.39	38,859	3,762	3.03	37,979	3,610	3.08	37,093	3,675	2.96	36,855	3,836	2.82	35,999	3,936	2.68
55°F(13°C)	40,156	3,248	3.62	39,230	3,391	3.39	38,261	3,476	3.23	37,473	3,576	3.07	36,943	3,504	3.09	36,253	3,512	3.03	35,658	3,575	2.92
65°F(18°C)	39,504	3,062	3.78	38,502	3,246	3.48	37,484	3,438	3.19	36,983	3,261	3.32	36,215	3,312	3.20	35,736	3,606	2.90	35,150	3,657	2.82
75°F(24°C)	37,207	2,601	4.19	35,905	2,776	3.79	35,557	2,989	3.49	34,565	2,711	3.74	33,842	2,799	3.54	33,459	2,958	3.32	32,953	3,126	3.09

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	20,637	3,532	1.71	20,049	3,612	1.63	19,679	3,660	1.57	19,261	3,722	1.52	18,912	3,799	1.46	18,569	3,860	1.41	18,346	3,916	1.37
-5°F(-21°C)	23,764	3,673	1.89	23,066	3,762	1.80	22,626	3,815	1.74	22,160	3,879	1.68	21,769	3,961	1.61	21,423	4,019	1.56	21,121	4,072	1.52
0°F(-18°C)	27,560	3,846	2.11	26,790	3,924	2.01	26,276	3,977	1.94	25,761	4,045	1.87	25,261	4,122	1.80	24,809	4,178	1.74	24,467	4,249	1.69
5°F(-15°C)	28,888	4,008	2.12	28,042	4,082	2.01	27,485	4,150	1.94	26,938	4,200	1.88	26,463	4,285	1.80	26,037	4,379	1.74	25,653	4,427	1.69

36000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYM36UCDDA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Wired Controller

Controller must be ordered separately.

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A

Uses snow hood UAWB85A

Supply Plenum

UAPT3048A

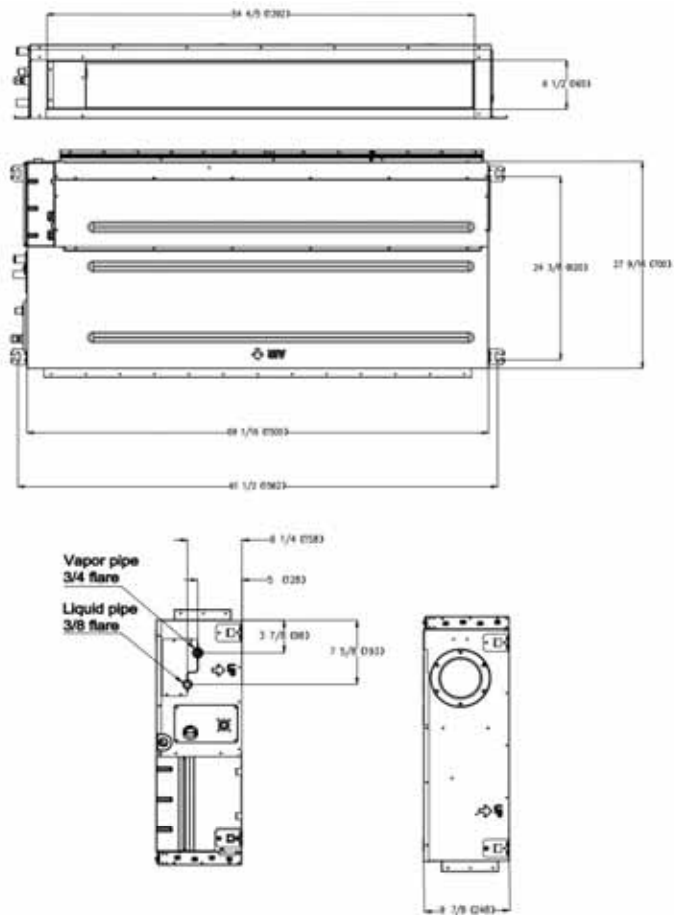
Filter Box

UAMFB3048A

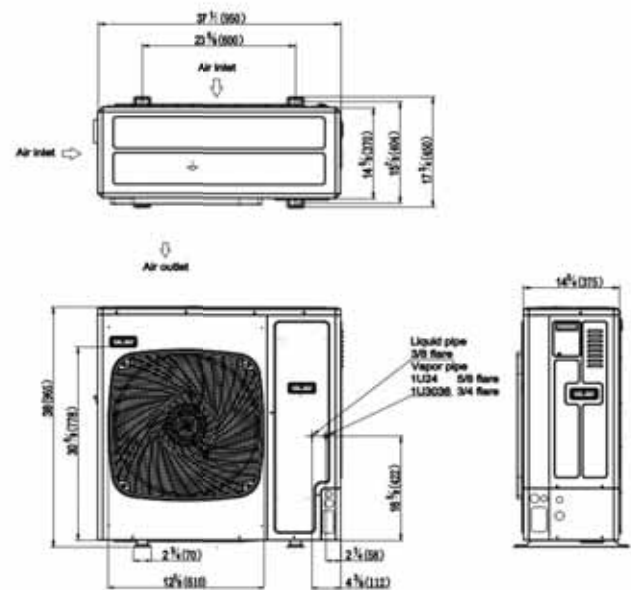
Operating Range	Cooling w/o Wind Baffle °F (°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F (°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~4°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	34,000
	Capacity Range Btu/hr	12,000~35,000
	SEER2/EER2	15.0/8.0
	Rated Power Input W	4,250
Heating	Moisture Removal Pt./hr	9.6
	Rated Heating Capacity 47°F Btu/hr	36,000
	Heating Capacity Range Btu/hr	6,500~38,000
	HSPF2 (I)/HSPF2 (V)	9.0/7.3
Outdoor Unit	Rated Power Input W	3,650
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	30
	Minimum Circuit AmpA	26
	Outdoor Noise Level dB	60
	Dimension: H x W x D in (mm)	37 7/8 x 37 1/2 x 14 5/8 (965 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	46 3/8 x 41 3/8 x 19 1/8 (1175 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	196/158 (89/72)
	Base Pan Heater	Built-in
	Fan Speed Stages	5 + Auto
Indoor Unit	Airflow CFM (Turbo/High/Med/Low/Quiet)	1236/1130/953/812/688
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1010/970/850/760/700
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	46/45/41/38/36
	Dimension: H x W x D in (mm)	9 7/8 x 59 1/8 x 37 5/8 (248 x 1500 x 700)
	Carton Dimension: H x W x D in (mm)	13 7/8 x 67 3/8 x 34 1/8 (350 x 1710 x 866)
	Weight Ship/Net - lbs (kg)	159/119 (72/54)
	Max. External Static Pressure in.W.G (Pa)	0.6 (150)
	Internal Condensate Pump	Standard
	Drain Pipe Size O.D in	1 1/4
	Max. Drain-lift height in (mm)	39 3/8 (1000)
Piping	Line Size: Liquid (Suction) in.	3/8 (3/4)
	IDU Flare Size: Liquid (Suction) in.	3/8 (3/4)
	ODU Port Size: Liquid (Suction) in.	3/8 (3/4)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (88.0)
	Max. Line Length/Height Ft (mm)	165/100 (50/30)

36000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYM36UCDDA

INDOOR UNIT



OUTDOOR UNIT



36000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYM36UCDDA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	20,525	933	21.99	21,160	982	21.54	21,814	1,034	21.10	22,141	1,060	20.89	22,584	1,092	20.69	22,923	1,124	20.39	23,267	1,158	20.09	23,732	1,199	19.80
32°F (0°C)	21,474	1,155	18.59	22,138	1,216	18.21	22,823	1,280	17.83	23,165	1,312	17.66	23,628	1,351	17.49	23,983	1,392	17.23	24,342	1,434	16.98	24,829	1,484	16.73
50°F (10°C)	22,209	1,365	16.26	22,896	1,437	15.93	23,604	1,513	15.60	23,958	1,551	15.45	24,437	1,597	15.30	24,804	1,645	15.08	25,176	1,695	14.86	25,679	1,754	14.64
68°F (20°C)	24,937	2,352	10.60	25,708	2,476	10.38	26,503	2,606	10.17	26,901	2,671	10.07	27,439	2,752	9.97	27,851	2,834	9.83	28,268	2,919	9.68	28,834	3,021	9.54
86°F (30°C)	29,577	3,303	8.95	30,492	3,477	8.77	31,435	3,660	8.59	31,906	3,752	8.50	32,544	3,864	8.42	33,033	3,980	8.30	33,528	4,100	8.18	34,199	4,243	8.06
95°F (35°C)	31,228	3,675	8.50	32,193	3,868	8.32	33,189	4,072	8.15	33,687	4,174	8.07	34,361	4,299	7.99	34,876	4,428	7.88	35,399	4,561	7.76	36,107	4,720	7.65
104°F (40°C)	30,520	3,842	7.94	31,464	4,044	7.78	32,437	4,257	7.62	32,923	4,363	7.55	33,582	4,494	7.47	34,086	4,629	7.36	34,597	4,768	7.26	35,289	4,934	7.15
110°F (43°C)	28,258	3,685	7.67	29,132	3,879	7.51	30,033	4,083	7.36	30,484	4,185	7.28	31,094	4,310	7.21	31,560	4,440	7.11	32,033	4,573	7.01	32,674	4,733	6.90
115°F (46°C)	25,997	3,528	7.37	26,801	3,714	7.22	27,630	3,909	7.07	28,044	4,007	7.00	28,605	4,127	6.93	29,034	4,251	6.83	29,470	4,378	6.73	30,059	4,531	6.63

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	22,241	986	22.56	22,929	1,038	22.10	23,638	1,092	21.64	23,993	1,120	21.43	24,473	1,153	21.22	25,207	1,199	21.02	25,711	1,235	20.81	26,225	1,272	20.61
14°F (-10°C)	22,291	1,006	22.16	22,980	1,059	21.70	23,691	1,115	21.25	24,046	1,143	21.05	24,527	1,177	20.84	25,263	1,224	20.64	25,768	1,261	20.44	26,284	1,298	20.24
23°F (-5°C)	22,405	1,027	21.83	23,098	1,081	21.38	23,812	1,137	20.94	24,169	1,166	20.73	24,653	1,201	20.53	25,392	1,249	20.33	25,900	1,286	20.14	26,418	1,325	19.94
32°F (0°C)	22,468	1,271	17.68	23,163	1,337	17.32	23,879	1,408	16.96	24,237	1,443	16.80	24,722	1,486	16.63	25,464	1,546	16.47	25,973	1,592	16.31	26,492	1,640	16.15
50°F (10°C)	22,653	1,502	15.08	23,354	1,581	14.77	24,076	1,664	14.47	24,437	1,706	14.33	24,926	1,757	14.19	25,674	1,827	14.05	26,187	1,882	13.91	26,711	1,939	13.78
68°F (20°C)	24,688	2,470	10.00	25,451	2,600	9.79	26,238	2,737	9.59	26,632	2,805	9.49	27,165	2,889	9.40	27,980	3,005	9.31	28,539	3,095	9.22	29,110	3,188	9.13
86°F (30°C)	29,192	3,438	8.49	30,095	3,619	8.32	31,026	3,810	8.14	31,491	3,905	8.06	32,121	4,022	7.99	33,085	4,183	7.91	33,747	4,309	7.83	34,422	4,438	7.76
95°F (35°C)	30,603	3,859	7.93	31,549	4,062	7.77	32,525	4,276	7.61	33,013	4,382	7.53	33,673	4,514	7.46	34,684	4,695	7.39	35,377	4,835	7.32	36,085	4,980	7.25
104°F (40°C)	30,048	3,977	7.56	30,977	4,186	7.40	31,935	4,407	7.25	32,414	4,517	7.18	33,063	4,652	7.11	34,055	4,839	7.04	34,736	4,984	6.97	35,430	5,133	6.90
110°F (43°C)	27,893	3,788	7.36	28,755	3,987	7.21	29,645	4,197	7.06	30,089	4,302	6.99	30,691	4,431	6.93	31,612	4,608	6.86	32,244	4,746	6.79	32,889	4,889	6.73
115°F (46°C)	25,737	3,598	7.15	26,533	3,788	7.00	27,354	3,987	6.86	27,764	4,087	6.79	28,319	4,209	6.73	29,169	4,378	6.66	29,752	4,509	6.60	30,347	4,644	6.53

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	22,333	1,006	22.21	23,024	1,058	21.75	23,736	1,114	21.30	24,092	1,142	21.10	24,574	1,176	20.89	25,311	1,223	20.69	25,817	1,260	20.49	26,334	1,298	20.29
14°F (-10°C)	22,134	1,036	21.36	22,818	1,091	20.92	23,524	1,148	20.49	23,877	1,177	20.29	24,354	1,212	20.09	25,085	1,261	19.90	25,587	1,298	19.71	26,099	1,337	19.52
23°F (-5°C)	22,248	1,057	21.04	22,936	1,113	20.61	23,645	1,172	20.18	24,000	1,201	19.99	24,480	1,237	19.79	25,214	1,286	19.60	25,718	1,325	19.41	26,233	1,365	19.22
32°F (0°C)	22,311	1,309	17.05	23,001	1,378	16.70	23,712	1,450	16.35	24,068	1,486	16.19	24,549	1,531	16.04	25,286	1,592	15.88	25,791	1,640	15.73	26,307	1,689	15.57
50°F (10°C)	22,496	1,547	14.54	23,192	1,629	14.24	23,909	1,714	13.95	24,268	1,757	13.81	24,753	1,810	13.68	25,496	1,882	13.55	26,006	1,939	13.41	26,526	1,997	13.28
68°F (20°C)	24,441	2,593	9.42	25,197	2,730	9.23	25,976	2,873	9.04	26,366	2,945	8.95	26,893	3,034	8.86	27,700	3,155	8.78	28,254	3,250	8.69	28,819	3,347	8.61
86°F (30°C)	28,900	3,590	8.05	29,794	3,779	7.88	30,716	3,978	7.72	31,176	4,077	7.65	31,800	4,199	7.57	32,754	4,367	7.50	33,409	4,498	7.43	34,077	4,633	7.35
95°F (35°C)	30,297	4,052	7.48	31,234	4,265	7.32	32,200	4,489	7.17	32,683	4,602	7.10	33,337	4,740	7.03	34,337	4,929	6.97	35,023	5,077	6.90	35,724	5,229	6.83
104°F (40°C)	29,748	4,138	7.19	30,668	4,355	7.04	31,616	4,585	6.90	32,090	4,699	6.83	32,732	4,840	6.76	33,714	5,034	6.70	34,388	5,185	6.63	35,076	5,340	6.57
110°F (43°C)	27,614	3,922	7.04	28,468	4,128	6.90	29,348	4,346	6.75	29,788	4,454	6.69	30,384	4,588	6.62	31,296	4,772	6.56	31,922	4,915	6.50	32,560	5,062	6.43
115°F (46°C)	25,480	3,706	6.87	26,268	3,901	6.73	27,080	4,107	6.59	27,486	4,209	6.53	28,036	4,336	6.47	28,877	4,509	6.40	29,455	4,644	6.34	30,044	4,784	6.28

36000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYM36UCDDA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	19,799	3,502	1.66	19,222	3,574	1.58	18,846	3,646	1.51	18,476	3,702	1.46	18,106	3,776	1.41	17,835	3,852	1.36	17,567	3,909	1.32
-5°F(-21°C)	22,937	3,633	1.85	22,269	3,707	1.76	21,832	3,783	1.69	21,404	3,840	1.63	20,976	3,917	1.57	20,661	3,995	1.52	20,352	4,055	1.47
0°F(-18°C)	26,075	3,763	2.03	25,315	3,840	1.93	24,819	3,919	1.86	24,332	3,978	1.79	23,846	4,058	1.72	23,488	4,139	1.66	23,136	4,201	1.61
5°F(-15°C)	27,447	3,920	2.05	26,648	4,000	1.95	26,125	4,082	1.88	25,613	4,144	1.81	25,101	4,227	1.74	24,724	4,311	1.68	24,353	4,376	1.63
14°F(-10°C)	27,106	3,803	2.09	26,316	3,880	1.99	25,800	3,959	1.91	25,294	4,020	1.84	24,788	4,100	1.77	24,416	4,182	1.71	24,050	4,245	1.66
23°F(-5°C)	28,136	3,484	2.37	27,317	3,555	2.25	26,781	3,628	2.16	26,256	3,683	2.09	25,731	3,756	2.01	25,345	3,832	1.94	24,965	3,889	1.88
32°F(0°C)	28,825	3,165	2.67	27,986	3,230	2.54	27,437	3,296	2.44	26,899	3,346	2.36	26,361	3,413	2.26	25,966	3,481	2.19	25,576	3,533	2.12
41°F(5°C)	34,175	3,319	3.02	33,180	3,387	2.87	32,529	3,456	2.76	31,892	3,509	2.66	31,254	3,579	2.56	30,785	3,650	2.47	30,323	3,705	2.40
47°F(8°C)	39,525	3,473	3.34	38,374	3,544	3.17	37,622	3,616	3.05	36,884	3,671	2.94	36,146	3,744	2.83	35,604	3,819	2.73	35,070	3,877	2.65
55°F(13°C)	39,130	3,299	3.48	37,990	3,366	3.31	37,245	3,435	3.18	36,515	3,487	3.07	35,785	3,557	2.95	35,248	3,628	2.85	34,719	3,683	2.76
65°F(18°C)	38,347	3,134	3.59	37,231	3,198	3.41	36,501	3,263	3.28	35,785	3,313	3.17	35,069	3,379	3.04	34,543	3,447	2.94	34,025	3,499	2.85
75°F(24°C)	36,047	2,664	3.97	34,997	2,718	3.77	34,311	2,774	3.63	33,638	2,816	3.50	32,965	2,872	3.36	32,471	2,930	3.25	31,983	2,974	3.15

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	20,393	3,545	1.69	19,799	3,617	1.60	19,411	3,672	1.55	19,030	3,728	1.50	18,650	3,803	1.44	18,351	3,871	1.39	18,094	3,929	1.35
-5°F(-21°C)	23,166	3,681	1.84	22,492	3,756	1.76	22,051	3,813	1.69	21,618	3,871	1.64	21,186	3,949	1.57	20,847	4,020	1.52	20,555	4,080	1.48
0°F(-18°C)	26,596	3,818	2.04	25,822	3,896	1.94	25,315	3,955	1.88	24,819	4,015	1.81	24,323	4,096	1.74	23,933	4,169	1.68	23,598	4,232	1.63
5°F(-15°C)	27,859	3,983	2.05	27,047	4,064	1.95	26,517	4,126	1.88	25,997	4,189	1.82	25,477	4,273	1.75	25,070	4,350	1.69	24,719	4,415	1.64

36000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYL36UCDDA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Standard Remote Control (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A

Uses snow hood UAWB85A

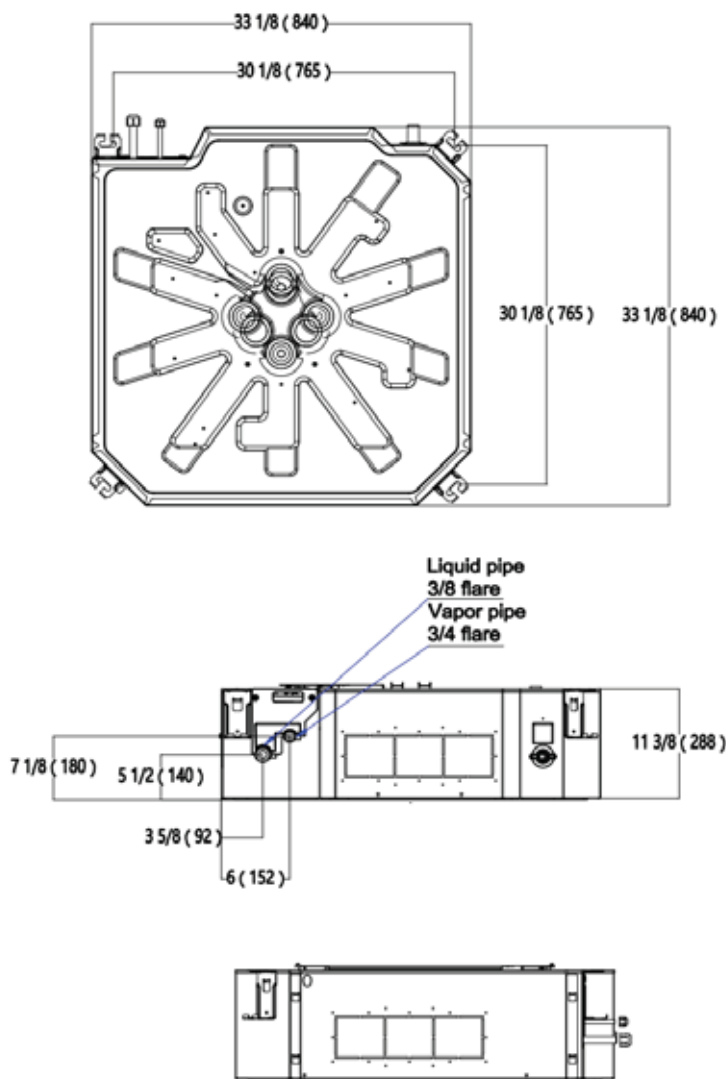
Panel

PB-950KD is required to complete the installation and it must be ordered separately

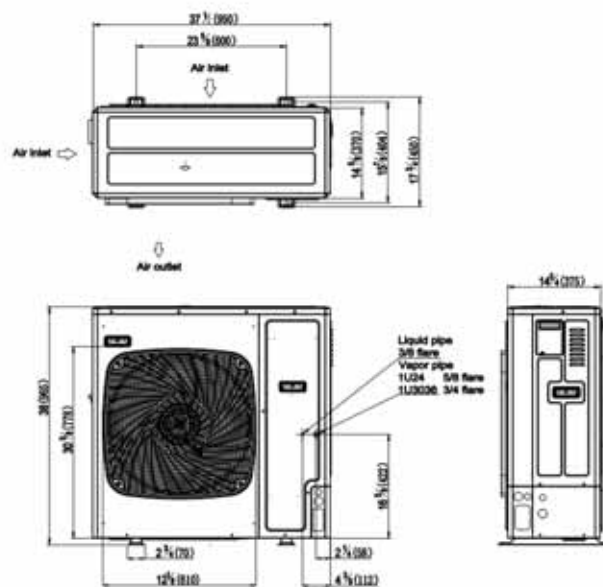
Operating Range	Cooling w/o Wind Baffle °F (°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F (°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~4°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	36,000
	Capacity Range Btu/hr	11,500~37,000
	SEER2/EER2	18.0/9.5
	Rated Power Input W	3,790
	Moisture Removal Pt./hr	9.8
Heating	Rated Heating Capacity 47°F Btu/hr	37,000
	Heating Capacity Range Btu/hr	5,500~38,000
	HSPF2 (I)/HSPF2 (V)	9.0/7.3
	Rated Power Input W	3,550
Outdoor Unit	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	30
	Minimum Circuit AmpA	26
	Dimension: H x W x D in (mm)	37 7/8 x 37 1/2 x 14 5/8 (965 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	46 3/8 x 41 3/8 x 19 1/8 (1175 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	196/158 (89/72)
	Base Pan Heater	Built-in
	Fan Speed Stages	5 + Auto
Indoor Unit	Airflow CFM (Turbo/High/Med/Low)	967/871/780/710
	Indoor Motor Speed RPM (Turbo/High/Med/Low)	730/650/550/450
	Indoor Sound Level dB (Turbo/High/Med/Low)	51/50/48/46
	Dimension: H x W x D in (mm)	11 3/8 x 33 1/8 x 33 1/8 (246 x 840 x 840)
	Carton Dimension: H x W x D in (mm)	15 1/2 x 38 5/8 x 38 5/8 (350 x 980 x 980)
	Drain Pipe Size O.D in	1 1/4
	Internal Condensate Pump	Standard
	Max. Drain-Lift height in(mm)	39 3/8 (1000)
	Weight Ship/Net - lbs	94/67 (43/30)
	Grille Model Number	PB-950KD
Piping	Line Size: Liquid (Suction) in.	3/8 (3/4)
	IDU Flare Size: Liquid (Suction) in.	3/8 (3/4)
	ODU Port Size: Liquid (Suction) in.	3/8 (3/4)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (88.0)
	Max. Line Length/Height Ft (mm)	165/100 (50/30)

36000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYL36UCDDA

INDOOR UNIT



OUTDOOR UNIT



36000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYL36UCDDA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	21,374	968	22.07	22,035	1,019	21.62	22,717	1,073	21.17	23,058	1,100	20.96	23,519	1,133	20.76	23,872	1,167	20.46	24,230	1,202	20.16	24,714	1,244	19.87
32°F (0°C)	22,488	1,160	19.39	23,183	1,221	18.99	23,900	1,285	18.60	24,259	1,317	18.42	24,744	1,357	18.24	25,115	1,397	17.98	25,492	1,439	17.71	26,002	1,490	17.46
50°F (10°C)	23,378	1,339	17.45	24,101	1,410	17.10	24,846	1,484	16.74	25,219	1,521	16.58	25,723	1,567	16.42	26,109	1,614	16.18	26,501	1,662	15.94	27,031	1,720	15.71
68°F (20°C)	26,534	2,142	12.39	27,354	2,255	12.13	28,200	2,373	11.88	28,623	2,433	11.77	29,196	2,506	11.65	29,634	2,581	11.48	30,078	2,658	11.31	30,680	2,751	11.15
86°F (30°C)	31,458	2,948	10.67	32,431	3,103	10.45	33,434	3,266	10.24	33,936	3,348	10.14	34,615	3,448	10.04	35,134	3,552	9.89	35,661	3,658	9.75	36,374	3,786	9.61
95°F (35°C)	33,480	3,251	10.30	34,516	3,422	10.09	35,583	3,602	9.88	36,117	3,692	9.78	36,839	3,803	9.69	37,392	3,917	9.55	37,953	4,034	9.41	38,712	4,176	9.27
104°F (40°C)	32,451	3,385	9.59	33,454	3,563	9.39	34,489	3,750	9.20	35,006	3,844	9.11	35,707	3,959	9.02	36,242	4,078	8.89	36,786	4,201	8.76	37,521	4,348	8.63
110°F (43°C)	29,908	3,240	9.23	30,833	3,411	9.04	31,787	3,590	8.85	32,263	3,680	8.77	32,909	3,790	8.68	33,402	3,904	8.56	33,903	4,021	8.43	34,581	4,162	8.31
115°F (46°C)	27,365	3,096	8.84	28,211	3,259	8.66	29,084	3,430	8.48	29,520	3,516	8.40	30,111	3,621	8.32	30,562	3,730	8.19	31,021	3,842	8.07	31,641	3,976	7.96

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	23,433	1,023	22.91	24,158	1,077	22.43	24,905	1,134	21.97	25,278	1,162	21.76	25,784	1,197	21.54	26,558	1,245	21.34	27,089	1,282	21.13	27,631	1,320	20.93
14°F (-10°C)	23,483	1,044	22.50	24,209	1,099	22.03	24,958	1,157	21.58	25,332	1,186	21.37	25,839	1,221	21.16	26,614	1,270	20.96	27,146	1,308	20.75	27,689	1,347	20.55
23°F (-5°C)	23,597	1,065	22.15	24,327	1,121	21.70	25,079	1,180	21.25	25,455	1,210	21.04	25,964	1,246	20.84	26,743	1,296	20.64	27,278	1,335	20.44	27,824	1,375	20.24
32°F (0°C)	23,660	1,276	18.55	24,392	1,343	18.17	25,146	1,413	17.79	25,523	1,449	17.62	26,034	1,492	17.45	26,815	1,552	17.28	27,351	1,598	17.11	27,898	1,646	16.95
50°F (10°C)	23,845	1,473	16.19	24,583	1,551	15.85	25,343	1,632	15.52	25,723	1,673	15.37	26,238	1,723	15.22	27,025	1,792	15.08	27,565	1,846	14.93	28,116	1,901	14.79
68°F (20°C)	26,268	2,249	11.68	27,081	2,368	11.44	27,918	2,492	11.20	28,337	2,554	11.09	28,904	2,631	10.99	29,771	2,736	10.88	30,366	2,818	10.77	30,974	2,903	10.67
86°F (30°C)	31,048	3,069	10.12	32,009	3,230	9.91	32,999	3,400	9.71	33,494	3,485	9.61	34,164	3,590	9.52	35,188	3,733	9.43	35,892	3,845	9.33	36,610	3,961	9.24
95°F (35°C)	32,810	3,413	9.61	33,825	3,593	9.41	34,871	3,782	9.22	35,394	3,877	9.13	36,102	3,993	9.04	37,185	4,153	8.95	37,929	4,277	8.87	38,688	4,406	8.78
104°F (40°C)	31,948	3,504	9.12	32,936	3,689	8.93	33,954	3,883	8.74	34,464	3,980	8.66	35,153	4,100	8.57	36,208	4,264	8.49	36,932	4,391	8.41	37,670	4,523	8.33
110°F (43°C)	29,520	3,331	8.86	30,433	3,506	8.68	31,374	3,691	8.50	31,844	3,783	8.42	32,481	3,897	8.34	33,456	4,052	8.26	34,125	4,174	8.18	34,807	4,299	8.10
115°F (46°C)	27,091	3,157	8.58	27,929	3,324	8.40	28,793	3,499	8.23	29,225	3,586	8.15	29,810	3,694	8.07	30,704	3,841	7.99	31,318	3,957	7.92	31,944	4,075	7.84

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	23,525	1,054	22.33	24,253	1,109	21.87	25,003	1,168	21.41	25,378	1,197	21.21	25,886	1,233	21.00	26,662	1,282	20.80	27,195	1,320	20.60	27,739	1,360	20.40
14°F (-10°C)	23,326	1,075	21.69	24,047	1,132	21.25	24,791	1,191	20.81	25,163	1,221	20.61	25,666	1,258	20.41	26,436	1,308	20.21	26,965	1,347	20.01	27,504	1,388	19.82
23°F (-5°C)	23,440	1,097	21.36	24,165	1,155	20.92	24,912	1,216	20.49	25,286	1,246	20.29	25,791	1,283	20.09	26,565	1,335	19.90	27,096	1,375	19.71	27,638	1,416	19.52
32°F (0°C)	23,503	1,314	17.89	24,230	1,383	17.52	24,979	1,456	17.16	25,354	1,492	16.99	25,861	1,537	16.83	26,636	1,598	16.66	27,169	1,646	16.50	27,713	1,696	16.34
50°F (10°C)	23,688	1,517	15.61	24,421	1,597	15.29	25,176	1,681	14.97	25,554	1,723	14.83	26,065	1,775	14.68	26,847	1,846	14.54	27,384	1,901	14.40	27,931	1,959	14.26
68°F (20°C)	26,006	2,362	11.01	26,810	2,486	10.78	27,639	2,617	10.56	28,054	2,682	10.46	28,615	2,763	10.36	29,473	2,873	10.26	30,063	2,959	10.16	30,664	3,048	10.06
86°F (30°C)	30,738	3,204	9.59	31,689	3,373	9.40	32,669	3,550	9.20	33,159	3,639	9.11	33,822	3,748	9.02	34,837	3,898	8.94	35,533	4,015	8.85	36,244	4,135	8.76
95°F (35°C)	32,482	3,584	9.06	33,487	3,773	8.88	34,523	3,971	8.69	35,040	4,070	8.61	35,741	4,193	8.52	36,814	4,360	8.44	37,550	4,491	8.36	38,301	4,626	8.28
104°F (40°C)	31,628	3,646	8.67	32,606	3,838	8.50	33,615	4,040	8.32	34,119	4,141	8.24	34,801	4,265	8.16	35,846	4,436	8.08	36,562	4,569	8.00	37,294	4,706	7.92
110°F (43°C)	29,224	3,449	8.47	30,128	3,631	8.30	31,060	3,822	8.13	31,526	3,917	8.05	32,156	4,035	7.97	33,121	4,196	7.89	33,784	4,322	7.82	34,459	4,452	7.74
115°F (46°C)	26,821	3,252	8.25	27,650	3,423	8.08	28,505	3,604	7.91	28,933	3,694	7.83	29,511	3,804	7.76	30,397	3,957	7.68	31,005	4,075	7.61	31,625	4,198	7.53

36000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U3036LP2HDA / USYL36UCDDA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	20,058	3,491	1.68	19,474	3,562	1.60	19,092	3,635	1.54	18,718	3,690	1.49	18,344	3,764	1.43	18,068	3,839	1.38	17,797	3,897	1.34
-5°F(-21°C)	23,562	3,637	1.90	22,876	3,711	1.81	22,428	3,787	1.74	21,988	3,845	1.68	21,548	3,922	1.61	21,225	4,000	1.56	20,906	4,060	1.51
0°F(-18°C)	27,066	3,783	2.10	26,278	3,861	1.99	25,763	3,939	1.92	25,258	3,999	1.85	24,752	4,079	1.78	24,381	4,161	1.72	24,015	4,223	1.67
5°F(-15°C)	28,491	3,941	2.12	27,661	4,021	2.02	27,119	4,104	1.94	26,587	4,166	1.87	26,055	4,249	1.80	25,664	4,334	1.74	25,279	4,399	1.68
14°F(-10°C)	28,048	3,823	2.15	27,231	3,901	2.05	26,697	3,980	1.97	26,174	4,041	1.90	25,650	4,122	1.82	25,266	4,204	1.76	24,887	4,267	1.71
23°F(-5°C)	29,030	3,484	2.44	28,184	3,555	2.32	27,632	3,628	2.23	27,090	3,683	2.16	26,548	3,757	2.07	26,150	3,832	2.00	25,758	3,889	1.94
32°F(0°C)	29,569	3,145	2.76	28,708	3,210	2.62	28,145	3,275	2.52	27,593	3,325	2.43	27,041	3,392	2.34	26,636	3,459	2.26	26,236	3,511	2.19
41°F(5°C)	35,112	3,275	3.14	34,089	3,341	2.99	33,421	3,410	2.87	32,766	3,462	2.77	32,110	3,531	2.67	31,629	3,601	2.57	31,154	3,655	2.50
47°F(8°C)	40,655	3,404	3.50	39,471	3,473	3.33	38,697	3,544	3.20	37,938	3,598	3.09	37,179	3,670	2.97	36,622	3,743	2.87	36,072	3,800	2.78
55°F(13°C)	40,248	3,234	3.65	39,076	3,299	3.47	38,310	3,367	3.33	37,559	3,418	3.22	36,807	3,486	3.09	36,255	3,556	2.99	35,712	3,610	2.90
65°F(18°C)	39,443	3,072	3.76	38,294	3,135	3.58	37,544	3,198	3.44	36,807	3,247	3.32	36,071	3,312	3.19	35,530	3,378	3.08	34,997	3,429	2.99
75°F(24°C)	37,077	2,611	4.16	35,997	2,664	3.96	35,291	2,719	3.80	34,599	2,760	3.67	33,907	2,815	3.53	33,398	2,872	3.41	32,897	2,915	3.31

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	20,660	3,533	1.71	20,058	3,605	1.63	19,665	3,660	1.57	19,280	3,716	1.52	18,894	3,790	1.46	18,592	3,859	1.41	18,331	3,916	1.37
-5°F(-21°C)	23,798	3,685	1.89	23,105	3,760	1.80	22,652	3,818	1.74	22,208	3,876	1.68	21,764	3,953	1.61	21,415	4,024	1.56	21,116	4,085	1.52
0°F(-18°C)	27,608	3,838	2.11	26,804	3,916	2.01	26,278	3,976	1.94	25,763	4,036	1.87	25,248	4,117	1.80	24,844	4,191	1.74	24,496	4,254	1.69
5°F(-15°C)	28,918	4,004	2.12	28,076	4,086	2.01	27,526	4,148	1.94	26,986	4,211	1.88	26,446	4,295	1.80	26,023	4,373	1.74	25,659	4,438	1.69

42000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYM42UCDDA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Wired Controller

Controller must be ordered separately.

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A (x2)

Uses snow hood UAWB86A

Supply Plenum

UAPT3048A

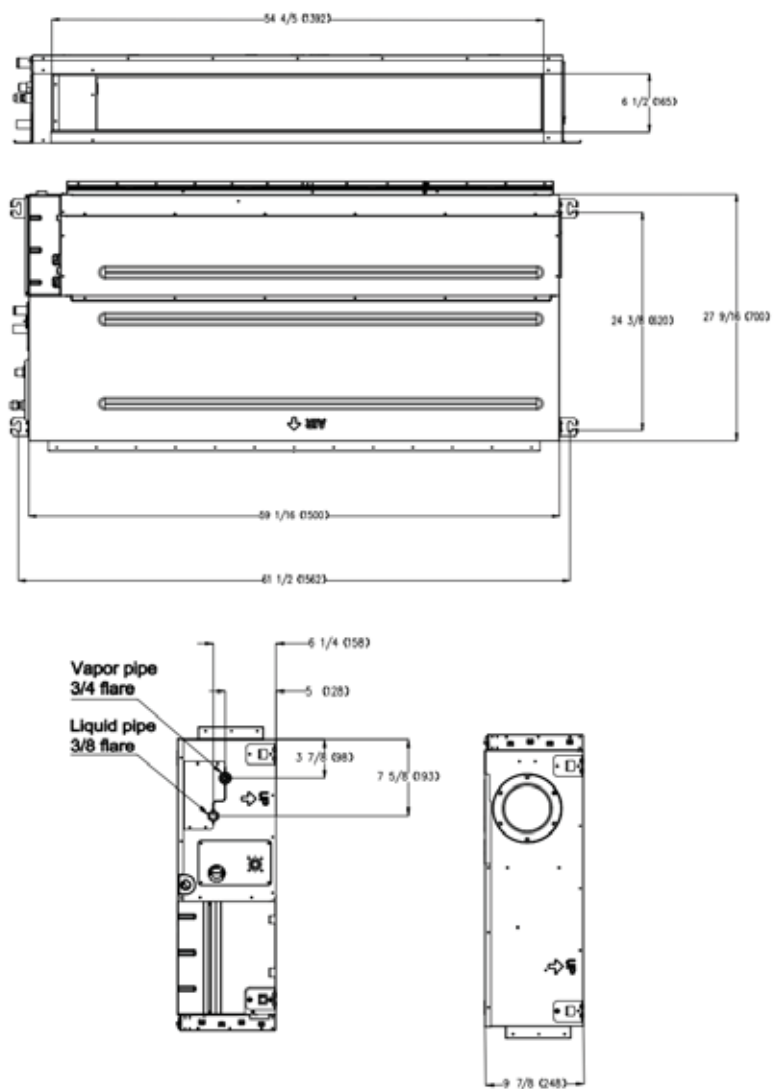
Filter Box

UAMFB3048A

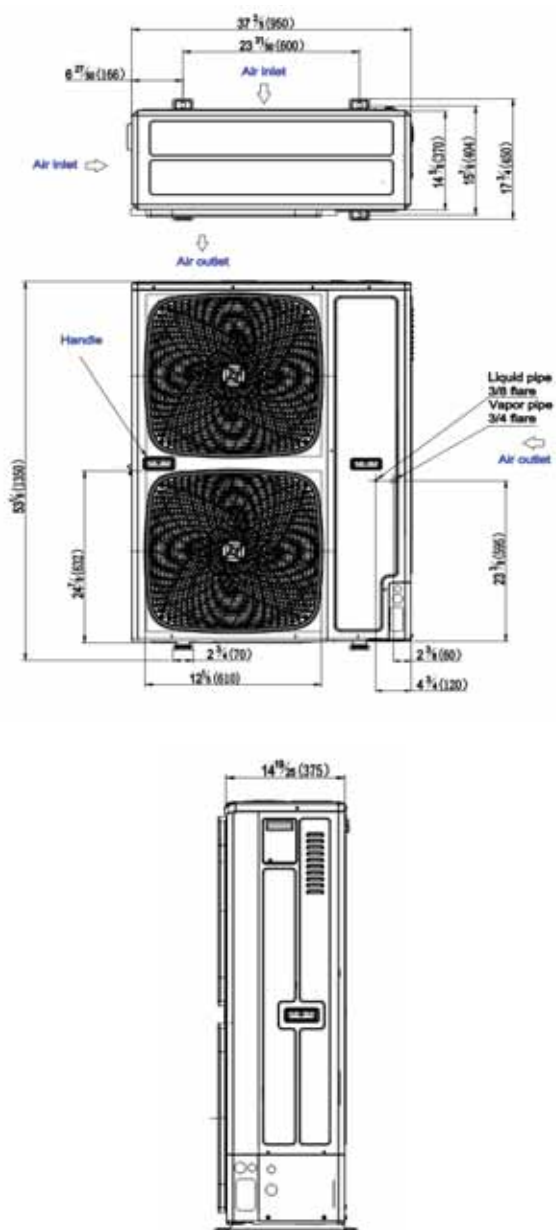
Operating Range	Cooling w/o Wind Baffle °F (°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F (°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~4°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	42,000
	Capacity Range Btu/hr	10,000~43,000
	SEER2/EER2	15.2/7.8
	Rated Power Input W	5,400
Heating	Moisture Removal Pt./hr	11.0
	Rated Heating Capacity 47°F Btu/hr	45,000
	Heating Capacity Range Btu/hr	10,000~46,500
	HSPF2 (IY)HSPF2 (V)	8.7/7.1
Outdoor Unit	Rated Power Input W	4,750
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	40
	Minimum Circuit AmpA	35
	Outdoor Noise Level dB	60
	Dimension: H x W x D in (mm)	53 1/8 x 37 1/2 x 14 5/8 (1350 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	61 3/4 x 41 3/8 x 19 1/8 (1568 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	262/216 (119/98)
	Base Pan Heater	Built-in
	Fan Speed Stages	5 + Auto
Indoor Unit	Airflow CFM (Turbo/High/Med/Low/Quiet)	1412/1353/1141/965/847
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1140/1120/980/860/800
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	49/48/45/42/40
	Dimension: H x W x D in (mm)	9 7/8 x 59 1/8 x 37 5/8 (248 x 1500 x 700)
	Carton Dimension: H x W x D in (mm)	13 7/8 x 67 3/8 x 34 1/8 (350 x 1710 x 866)
	Weight Ship/Net - lbs (kg)	159/119 (72/54)
	Max. External Static Pressure in.W.G (Pa)	0.6 (150)
	Internal Condensate Pump	Standard
	Drain Pipe Size O.D in	1 1/4
	Max. Drain-lift height in (mm)	39 3/8 (1000)
Piping	Line Size: Liquid (Suction) in.	3/8 (3/4)
	IDU Flare Size: Liquid (Suction) in.	3/8 (3/4)
	ODU Port Size: Liquid (Suction) in.	3/8 (3/4)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (141.0)
	Max. Line Length/Height Ft (mm)	230/100 (70/30)

42000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYM42UCDDA

INDOOR UNIT



OUTDOOR UNIT



42000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYM42UCDDA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	26,347	1,195	22.06	27,162	1,257	21.60	28,002	1,324	21.16	28,422	1,357	20.95	28,991	1,397	20.75	29,425	1,439	20.44	29,867	1,483	20.15	30,464	1,534	19.85
32°F (0°C)	29,058	1,503	19.33	29,957	1,582	18.93	30,883	1,666	18.54	31,346	1,707	18.36	31,973	1,758	18.18	32,453	1,811	17.92	32,940	1,865	17.66	33,599	1,931	17.40
50°F (10°C)	31,480	1,797	17.52	32,453	1,891	17.16	33,457	1,991	16.81	33,959	2,041	16.64	34,638	2,102	16.48	35,158	2,165	16.24	35,685	2,230	16.00	36,399	2,308	15.77
68°F (20°C)	32,896	2,984	11.02	33,914	3,141	10.80	34,963	3,307	10.57	35,487	3,389	10.47	36,197	3,491	10.37	36,740	3,596	10.22	37,291	3,704	10.07	38,037	3,833	9.92
86°F (30°C)	36,706	4,042	9.08	37,841	4,255	8.89	39,011	4,479	8.71	39,597	4,591	8.63	40,389	4,729	8.54	40,994	4,870	8.42	41,609	5,017	8.29	42,441	5,192	8.17
95°F (35°C)	39,012	4,598	8.48	40,219	4,840	8.31	41,463	5,095	8.14	42,085	5,222	8.06	42,927	5,379	7.98	43,570	5,540	7.86	44,224	5,707	7.75	45,109	5,906	7.64
104°F (40°C)	35,927	4,595	7.82	37,038	4,837	7.66	38,184	5,091	7.50	38,757	5,219	7.43	39,532	5,375	7.35	40,125	5,536	7.25	40,727	5,702	7.14	41,541	5,902	7.04
110°F (43°C)	32,139	4,306	7.46	33,133	4,533	7.31	34,158	4,771	7.16	34,670	4,890	7.09	35,363	5,037	7.02	35,894	5,188	6.92	36,432	5,344	6.82	37,161	5,531	6.72
115°F (46°C)	28,351	4,017	7.06	29,228	4,228	6.91	30,132	4,451	6.77	30,584	4,562	6.70	31,195	4,699	6.64	31,663	4,840	6.54	32,138	4,985	6.45	32,781	5,160	6.35

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	31,697	1,262	25.12	32,678	1,328	24.60	33,688	1,398	24.09	34,194	1,433	23.86	34,877	1,476	23.62	35,924	1,535	23.40	36,642	1,581	23.17	37,375	1,629	22.95
14°F (-10°C)	31,747	1,288	24.65	32,729	1,356	24.14	33,741	1,427	23.65	34,247	1,463	23.42	34,932	1,506	23.19	35,980	1,567	22.97	36,700	1,614	22.74	37,434	1,662	22.52
23°F (-5°C)	31,861	1,314	24.25	32,846	1,383	23.75	33,862	1,456	23.26	34,370	1,492	23.03	35,058	1,537	22.81	36,109	1,599	22.59	36,831	1,647	22.37	37,568	1,696	22.15
32°F (0°C)	31,924	1,653	19.31	32,911	1,740	18.91	33,929	1,832	18.52	34,438	1,878	18.34	35,127	1,934	18.16	36,181	2,012	17.99	36,904	2,072	17.81	37,642	2,134	17.64
50°F (10°C)	32,109	1,976	16.25	33,102	2,080	15.91	34,126	2,190	15.58	34,638	2,245	15.43	35,331	2,312	15.28	36,391	2,405	15.13	37,119	2,477	14.99	37,861	2,551	14.84
68°F (20°C)	32,567	3,134	10.39	33,575	3,298	10.18	34,613	3,472	9.97	35,132	3,559	9.87	35,835	3,666	9.78	36,910	3,812	9.68	37,648	3,927	9.59	38,401	4,044	9.49
86°F (30°C)	36,228	4,210	8.61	37,348	4,432	8.43	38,503	4,665	8.25	39,081	4,782	8.17	39,863	4,925	8.09	41,058	5,122	8.02	41,880	5,276	7.94	42,717	5,434	7.86
95°F (35°C)	38,232	4,828	7.92	39,415	5,082	7.76	40,634	5,350	7.60	41,243	5,483	7.52	42,068	5,648	7.45	43,330	5,874	7.38	44,197	6,050	7.31	45,081	6,232	7.23
104°F (40°C)	35,360	4,760	7.43	36,453	5,011	7.27	37,581	5,275	7.12	38,145	5,406	7.06	38,907	5,569	6.99	40,075	5,791	6.92	40,876	5,965	6.85	41,694	6,144	6.79
110°F (43°C)	31,714	4,429	7.16	32,694	4,662	7.01	33,706	4,907	6.87	34,211	5,030	6.80	34,895	5,181	6.74	35,942	5,388	6.67	36,661	5,550	6.61	37,394	5,716	6.54
115°F (46°C)	28,067	4,097	6.85	28,935	4,313	6.71	29,830	4,540	6.57	30,278	4,654	6.51	30,883	4,793	6.44	31,810	4,985	6.38	32,446	5,134	6.32	33,095	5,288	6.26

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	31,789	1,300	24.46	32,773	1,368	23.95	33,786	1,440	23.46	34,293	1,476	23.23	34,979	1,521	23.00	36,028	1,581	22.78	36,749	1,629	22.56	37,484	1,678	22.34
14°F (-10°C)	31,590	1,326	23.82	32,567	1,396	23.33	33,574	1,470	22.84	34,078	1,506	22.62	34,759	1,552	22.40	35,802	1,614	22.19	36,518	1,662	21.97	37,249	1,712	21.76
23°F (-5°C)	31,704	1,353	23.42	32,684	1,425	22.94	33,695	1,500	22.47	34,201	1,537	22.25	34,885	1,583	22.03	35,931	1,647	21.82	36,650	1,696	21.61	37,383	1,747	21.40
32°F (0°C)	31,767	1,703	18.65	32,749	1,793	18.27	33,762	1,887	17.89	34,269	1,934	17.72	34,954	1,992	17.54	36,003	2,072	17.38	36,723	2,134	17.21	37,457	2,198	17.04
50°F (10°C)	31,952	2,036	15.70	32,940	2,143	15.37	33,959	2,256	15.05	34,469	2,312	14.91	35,158	2,381	14.76	36,213	2,477	14.62	36,937	2,551	14.48	37,676	2,628	14.34
68°F (20°C)	32,242	3,290	9.80	33,239	3,463	9.60	34,267	3,646	9.40	34,781	3,737	9.31	35,477	3,849	9.22	36,541	4,003	9.13	37,272	4,123	9.04	38,017	4,247	8.95
86°F (30°C)	35,866	4,397	8.16	36,975	4,629	7.99	38,118	4,872	7.82	38,690	4,994	7.75	39,464	5,144	7.67	40,648	5,350	7.60	41,461	5,510	7.52	42,290	5,675	7.45
95°F (35°C)	37,850	5,070	7.47	39,021	5,336	7.31	40,227	5,617	7.16	40,831	5,758	7.09	41,647	5,930	7.02	42,897	6,168	6.96	43,755	6,353	6.89	44,630	6,543	6.82
104°F (40°C)	35,006	4,955	7.07	36,089	5,215	6.92	37,205	5,490	6.78	37,763	5,627	6.71	38,518	5,796	6.65	39,674	6,028	6.58	40,467	6,209	6.52	41,277	6,395	6.45
110°F (43°C)	31,396	4,587	6.84	32,367	4,829	6.70	33,369	5,083	6.56	33,869	5,210	6.50	34,546	5,366	6.44	35,583	5,581	6.38	36,294	5,749	6.31	37,020	5,921	6.25
115°F (46°C)	27,787	4,220	6.58	28,646	4,442	6.45	29,532	4,676	6.32	29,975	4,793	6.25	30,575	4,937	6.19	31,492	5,134	6.13	32,122	5,288	6.07	32,764	5,447	6.01

42000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYM42UCDDA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	30,602	5,390	1.66	29,711	5,500	1.58	29,128	5,613	1.52	28,557	5,698	1.47	27,986	5,812	1.41	27,566	5,928	1.36	27,153	6,017	1.32
-5°F(-21°C)	34,040	5,495	1.82	33,048	5,607	1.73	32,400	5,721	1.66	31,765	5,808	1.60	31,130	5,924	1.54	30,663	6,043	1.49	30,203	6,133	1.44
0°F(-18°C)	37,478	5,599	1.96	36,386	5,713	1.87	35,673	5,830	1.79	34,973	5,918	1.73	34,274	6,037	1.66	33,760	6,158	1.61	33,253	6,250	1.56
5°F(-15°C)	39,450	5,832	1.98	38,301	5,951	1.89	37,550	6,073	1.81	36,814	6,165	1.75	36,078	6,288	1.68	35,537	6,414	1.62	35,004	6,510	1.58
14°F(-10°C)	39,402	5,657	2.04	38,254	5,773	1.94	37,504	5,890	1.87	36,769	5,980	1.80	36,034	6,100	1.73	35,493	6,222	1.67	34,961	6,315	1.62
23°F(-5°C)	41,326	5,483	2.21	40,123	5,595	2.10	39,336	5,709	2.02	38,565	5,796	1.95	37,793	5,912	1.87	37,226	6,030	1.81	36,668	6,121	1.76
32°F(0°C)	43,202	5,309	2.39	41,944	5,417	2.27	41,121	5,528	2.18	40,315	5,612	2.11	39,509	5,724	2.02	38,916	5,839	1.95	38,332	5,926	1.90
41°F(5°C)	46,204	4,928	2.75	44,858	5,029	2.61	43,978	5,131	2.51	43,116	5,210	2.43	42,254	5,314	2.33	41,620	5,420	2.25	40,996	5,501	2.18
47°F(8°C)	49,205	4,547	3.17	47,772	4,640	3.02	46,835	4,735	2.90	45,917	4,807	2.80	44,999	4,903	2.69	44,324	5,001	2.60	43,659	5,076	2.52
55°F(13°C)	48,713	4,320	3.30	47,294	4,408	3.14	46,367	4,498	3.02	45,458	4,567	2.92	44,549	4,658	2.80	43,880	4,751	2.71	43,222	4,822	2.63
65°F(18°C)	47,739	4,104	3.41	46,348	4,188	3.24	45,440	4,273	3.12	44,549	4,338	3.01	43,658	4,425	2.89	43,003	4,514	2.79	42,358	4,581	2.71
75°F(24°C)	44,875	3,488	3.77	43,568	3,560	3.59	42,713	3,632	3.45	41,876	3,688	3.33	41,038	3,761	3.20	40,423	3,837	3.09	39,816	3,894	3.00

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	31,520	5,442	1.70	30,602	5,554	1.61	30,002	5,638	1.56	29,414	5,724	1.51	28,825	5,838	1.45	28,364	5,944	1.40	27,967	6,033	1.36
-5°F(-21°C)	34,380	5,552	1.81	33,379	5,665	1.73	32,724	5,752	1.67	32,083	5,839	1.61	31,441	5,956	1.55	30,938	6,063	1.50	30,505	6,154	1.45
0°F(-18°C)	38,227	5,663	1.98	37,114	5,778	1.88	36,386	5,866	1.82	35,673	5,955	1.76	34,959	6,075	1.69	34,400	6,184	1.63	33,918	6,277	1.58
5°F(-15°C)	40,042	5,905	1.99	38,876	6,025	1.89	38,114	6,117	1.83	37,366	6,210	1.76	36,619	6,334	1.69	36,033	6,448	1.64	35,529	6,545	1.59

48000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYM48UCDDA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Wired Controller

Controller must be ordered separately.

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A (x2)

Uses snow hood UAWB86A

Supply Plenum

UAPT3048A

Filter Box

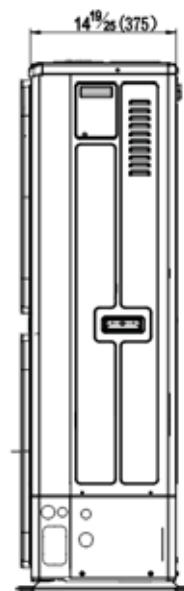
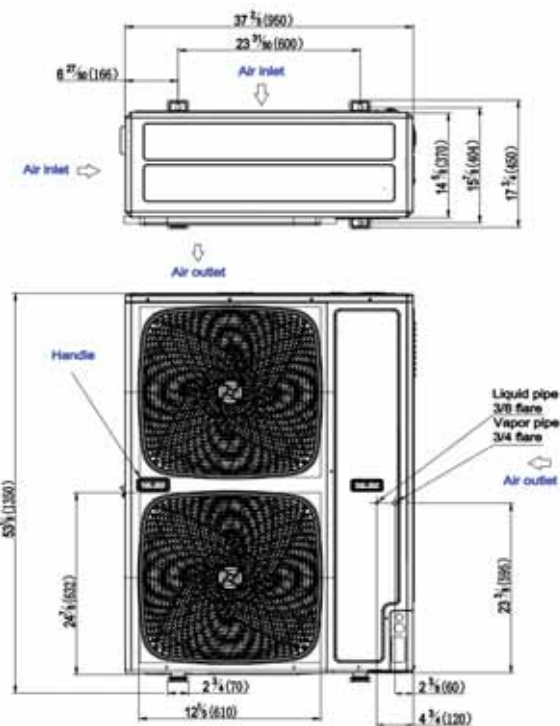
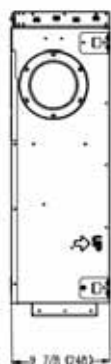
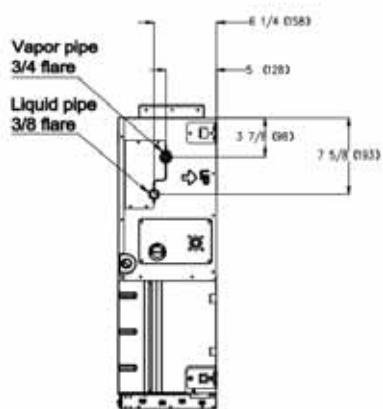
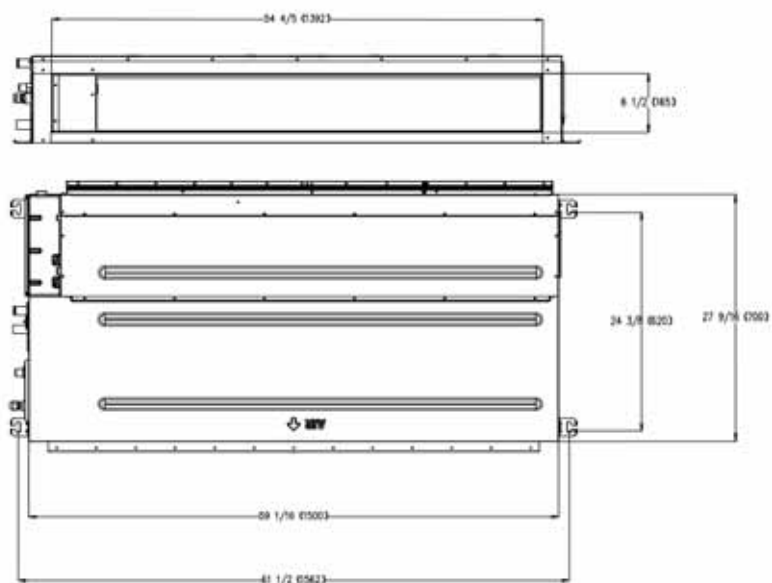
UAMFB3048A

Operating Range	Cooling w/o Wind Baffle °F (°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F (°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~4°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	46,000
	Capacity Range Btu/hr	9,500~47,000
	SEER2/EER2	15.2/73
	Rated Power Input W	6,300
Heating	Moisture Removal Pt./hr	11.0
	Rated Heating Capacity 47°F Btu/hr	48,000
	Heating Capacity Range Btu/hr	10,000~49,000
	HSPF2 (IY)HSPF2 (V)	8.8/7.1
Outdoor Unit	Rated Power Input W	5,700
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	40
	Minimum Circuit AmpA	35
	Outdoor Noise Level dB	60
	Dimension: H x W x D in (mm)	53 1/8 x 37 1/2 x 14 5/8 (1350 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	61 3/4 x 41 3/8 x 19 1/8 (1568 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	262/216 (119/98)
	Base Pan Heater	Built-in
	Fan Speed Stages	5 + Auto
Indoor Unit	Airflow CFM (Turbo/High/Med/Low/Quiet)	1412/1353/1141/965/847
	Indoor Motor Speed RPM (Turbo/High/Med/Low/Quiet)	1140/1120/980/860/800
	Indoor Sound Level dB (Turbo/High/Med/Low/Quiet)	49/48/45/42/40
	Dimension: H x W x D in (mm)	9 7/8 x 59 1/8 x 37 5/8 (248 x 1500 x 700)
	Carton Dimension: H x W x D in (mm)	13 7/8 x 67 3/8 x 34 1/8 (350 x 1710 x 866)
	Weight Ship/Net - lbs (kg)	159/119 (72/54)
	Max. External Static Pressure in.W.G (Pa)	0.6 (150)
	Internal Condensate Pump	Standard
	Drain Pipe Size O.D in	1 1/4
	Max. Drain-lift height in (mm)	39 3/8 (1000)
Piping	Line Size: Liquid (Suction) in.	3/8 (3/4)
	IDU Flare Size: Liquid (Suction) in.	3/8 (3/4)
	ODU Port Size: Liquid (Suction) in.	3/8 (3/4)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (141.0)
	Max. Line Length/Height Ft (mm)	230/100 (70/30)

48000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYM48UCDDA

INDOOR UNIT

OUTDOOR UNIT



48000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYM48UCDDA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	26,613	1,207	22.06	27,436	1,270	21.60	28,285	1,337	21.16	28,709	1,370	20.95	29,283	1,412	20.75	29,723	1,454	20.44	30,169	1,498	20.15	30,772	1,550	19.85
32°F (0°C)	29,352	1,518	19.33	30,259	1,598	18.93	31,195	1,682	18.54	31,663	1,724	18.36	32,296	1,776	18.18	32,781	1,829	17.92	33,273	1,884	17.66	33,938	1,950	17.40
50°F (10°C)	31,798	1,815	17.52	32,781	1,910	17.16	33,795	2,011	16.81	34,302	2,061	16.64	34,988	2,123	16.48	35,513	2,187	16.24	36,045	2,252	16.00	36,766	2,331	15.77
68°F (20°C)	34,249	3,386	10.11	35,308	3,564	9.91	36,400	3,752	9.70	36,946	3,846	9.61	37,685	3,961	9.51	38,250	4,080	9.38	38,824	4,202	9.24	39,600	4,349	9.10
86°F (30°C)	38,242	4,611	8.29	39,425	4,853	8.12	40,645	5,109	7.96	41,254	5,236	7.88	42,079	5,393	7.80	42,710	5,555	7.69	43,351	5,722	7.58	44,218	5,922	7.47
95°F (35°C)	41,592	5,441	7.64	42,879	5,728	7.49	44,205	6,029	7.33	44,868	6,180	7.26	45,765	6,365	7.19	46,452	6,556	7.09	47,149	6,753	6.98	48,092	6,989	6.88
104°F (40°C)	37,456	5,259	7.12	38,614	5,535	6.98	39,809	5,827	6.83	40,406	5,972	6.77	41,214	6,152	6.70	41,832	6,336	6.60	42,459	6,526	6.51	43,309	6,755	6.41
110°F (43°C)	33,047	4,839	6.83	34,069	5,093	6.69	35,122	5,361	6.55	35,649	5,495	6.49	36,362	5,660	6.42	36,908	5,830	6.33	37,461	6,005	6.24	38,210	6,215	6.15
115°F (46°C)	28,637	4,419	6.48	29,523	4,651	6.35	30,436	4,896	6.22	30,893	5,018	6.16	31,510	5,169	6.10	31,983	5,324	6.01	32,463	5,484	5.92	33,112	5,676	5.83

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	32,022	1,275	25.12	33,012	1,342	24.60	34,033	1,412	24.09	34,543	1,448	23.86	35,234	1,491	23.63	36,291	1,551	23.40	37,017	1,597	23.17	37,757	1,645	22.95
14°F (-10°C)	32,071	1,301	24.66	33,063	1,369	24.15	34,086	1,441	23.65	34,597	1,477	23.42	35,289	1,522	23.19	36,348	1,583	22.97	37,075	1,630	22.75	37,816	1,679	22.52
23°F (-5°C)	32,185	1,327	24.25	33,181	1,397	23.75	34,207	1,471	23.26	34,720	1,507	23.03	35,414	1,553	22.81	36,477	1,615	22.59	37,206	1,663	22.37	37,950	1,713	22.15
32°F (0°C)	32,248	1,670	19.31	33,246	1,758	18.91	34,274	1,851	18.52	34,788	1,897	18.34	35,484	1,954	18.16	36,548	2,032	17.99	37,279	2,093	17.81	38,025	2,156	17.64
50°F (10°C)	32,434	1,996	16.25	33,437	2,101	15.91	34,471	2,212	15.58	34,988	2,267	15.43	35,688	2,335	15.28	36,758	2,429	15.13	37,494	2,502	14.99	38,243	2,577	14.84
68°F (20°C)	33,906	3,555	9.54	34,955	3,743	9.34	36,036	3,940	9.15	36,577	4,038	9.06	37,308	4,159	8.97	38,427	4,326	8.88	39,196	4,455	8.80	39,980	4,589	8.71
86°F (30°C)	37,742	4,803	7.86	38,909	5,056	7.70	40,112	5,322	7.54	40,714	5,455	7.46	41,528	5,619	7.39	42,774	5,844	7.32	43,630	6,019	7.25	44,502	6,200	7.18
95°F (35°C)	40,761	5,713	7.13	42,021	6,014	6.99	43,321	6,330	6.84	43,971	6,489	6.78	44,850	6,683	6.71	46,196	6,951	6.65	47,120	7,159	6.58	48,062	7,374	6.52
104°F (40°C)	36,859	5,451	6.76	37,999	5,738	6.62	39,175	6,040	6.49	39,762	6,191	6.42	40,558	6,376	6.36	41,774	6,631	6.30	42,610	6,830	6.24	43,462	7,035	6.18
110°F (43°C)	32,605	4,979	6.55	33,614	5,241	6.41	34,653	5,517	6.28	35,173	5,655	6.22	35,876	5,824	6.16	36,953	6,057	6.10	37,692	6,239	6.04	38,446	6,426	5.98
115°F (46°C)	28,351	4,507	6.29	29,228	4,744	6.16	30,132	4,994	6.03	30,584	5,119	5.97	31,195	5,272	5.92	32,131	5,483	5.86	32,774	5,648	5.80	33,429	5,817	5.75

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	32,114	1,313	24.46	33,107	1,382	23.95	34,131	1,455	23.46	34,643	1,491	23.23	35,336	1,536	23.01	36,396	1,597	22.78	37,124	1,645	22.56	37,866	1,695	22.34
14°F (-10°C)	31,914	1,340	23.82	32,901	1,410	23.33	33,919	1,485	22.85	34,428	1,522	22.63	35,116	1,567	22.41	36,170	1,630	22.19	36,893	1,679	21.97	37,631	1,729	21.76
23°F (-5°C)	32,028	1,367	23.43	33,019	1,439	22.94	34,040	1,515	22.47	34,550	1,553	22.25	35,242	1,599	22.04	36,299	1,663	21.82	37,025	1,713	21.61	37,765	1,765	21.40
32°F (0°C)	32,091	1,720	18.65	33,084	1,811	18.27	34,107	1,906	17.89	34,619	1,954	17.72	35,311	2,012	17.55	36,370	2,093	17.38	37,098	2,156	17.21	37,840	2,220	17.04
50°F (10°C)	32,277	2,056	15.70	33,275	2,165	15.37	34,304	2,278	15.06	34,818	2,335	14.91	35,515	2,405	14.76	36,580	2,502	14.62	37,312	2,577	14.48	38,058	2,654	14.34
68°F (20°C)	33,567	3,733	8.99	34,605	3,930	8.81	35,676	4,137	8.62	36,211	4,240	8.54	36,935	4,367	8.46	38,043	4,542	8.38	38,804	4,678	8.29	39,580	4,818	8.21
86°F (30°C)	37,364	5,018	7.45	38,520	5,282	7.29	39,711	5,560	7.14	40,307	5,699	7.07	41,113	5,870	7.00	42,346	6,105	6.94	43,193	6,288	6.87	44,057	6,477	6.80
95°F (35°C)	40,353	5,999	6.73	41,601	6,315	6.59	42,888	6,647	6.45	43,531	6,813	6.39	44,402	7,018	6.33	45,734	7,298	6.27	46,648	7,517	6.21	47,581	7,743	6.15
104°F (40°C)	36,491	5,675	6.43	37,619	5,974	6.30	38,783	6,288	6.17	39,365	6,446	6.11	40,152	6,639	6.05	41,357	6,905	5.99	42,184	7,112	5.93	43,027	7,325	5.87
110°F (43°C)	32,279	5,159	6.26	33,277	5,430	6.13	34,307	5,716	6.00	34,821	5,859	5.94	35,518	6,035	5.89	36,583	6,276	5.83	37,315	6,464	5.77	38,061	6,658	5.72
115°F (46°C)	28,067	4,642	6.05	28,935	4,887	5.92	29,830	5,144	5.80	30,278	5,272	5.74	30,883	5,431	5.69	31,810	5,648	5.63	32,446	5,817	5.58	33,095	5,992	5.52

48000 BTU/HR MID-STATIC DUCTED INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYM48UCDDA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	31,069	5,474	1.66	30,164	5,586	1.58	29,573	5,700	1.52	28,993	5,787	1.47	28,413	5,903	1.41	27,987	6,021	1.36	27,567	6,111	1.32
-5°F(-21°C)	33,656	5,444	1.81	32,676	5,556	1.72	32,035	5,669	1.66	31,407	5,755	1.60	30,779	5,870	1.54	30,317	5,988	1.48	29,862	6,078	1.44
0°F(-18°C)	36,243	5,414	1.96	35,187	5,525	1.87	34,497	5,638	1.79	33,821	5,724	1.73	33,145	5,838	1.66	32,647	5,955	1.61	32,158	6,044	1.56
5°F(-15°C)	38,150	5,640	1.98	37,039	5,755	1.89	36,313	5,873	1.81	35,601	5,962	1.75	34,889	6,081	1.68	34,366	6,203	1.62	33,850	6,296	1.58
14°F(-10°C)	38,341	5,471	2.05	37,225	5,582	1.95	36,495	5,696	1.88	35,779	5,783	1.81	35,064	5,899	1.74	34,538	6,017	1.68	34,020	6,107	1.63
23°F(-5°C)	40,440	5,325	2.23	39,262	5,433	2.12	38,492	5,544	2.03	37,738	5,629	1.97	36,983	5,741	1.89	36,428	5,856	1.82	35,882	5,944	1.77
32°F(0°C)	42,729	5,178	2.42	41,485	5,284	2.30	40,671	5,392	2.21	39,874	5,474	2.13	39,077	5,583	2.05	38,490	5,695	1.98	37,913	5,781	1.92
41°F(5°C)	47,401	5,319	2.61	46,020	5,428	2.48	45,118	5,539	2.39	44,233	5,623	2.31	43,349	5,735	2.22	42,699	5,850	2.14	42,058	5,938	2.08
47°F(8°C)	52,073	5,460	2.80	50,556	5,572	2.66	49,565	5,685	2.56	48,593	5,772	2.47	47,621	5,887	2.37	46,907	6,005	2.29	46,203	6,095	2.22
55°F(13°C)	51,552	5,187	2.91	50,050	5,293	2.77	49,069	5,401	2.66	48,107	5,483	2.57	47,145	5,593	2.47	46,438	5,705	2.39	45,741	5,791	2.32
65°F(18°C)	50,521	4,928	3.00	49,049	5,028	2.86	48,088	5,131	2.75	47,145	5,209	2.65	46,202	5,313	2.55	45,509	5,420	2.46	44,826	5,501	2.39
75°F(24°C)	47,490	4,189	3.32	46,106	4,274	3.16	45,202	4,361	3.04	44,316	4,428	2.93	43,430	4,516	2.82	42,778	4,607	2.72	42,137	4,676	2.64

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	32,001	5,527	1.70	31,069	5,640	1.61	30,460	5,726	1.56	29,863	5,813	1.51	29,266	5,929	1.45	28,797	6,036	1.40	28,394	6,127	1.36
-5°F(-21°C)	33,993	5,502	1.81	33,003	5,614	1.72	32,356	5,699	1.66	31,721	5,786	1.61	31,087	5,902	1.54	30,589	6,008	1.49	30,161	6,098	1.45
0°F(-18°C)	36,968	5,477	1.98	35,891	5,589	1.88	35,187	5,674	1.82	34,497	5,761	1.76	33,807	5,876	1.69	33,267	5,981	1.63	32,801	6,071	1.58
5°F(-15°C)	38,723	5,712	1.99	37,595	5,828	1.89	36,858	5,917	1.83	36,135	6,007	1.76	35,412	6,127	1.69	34,846	6,237	1.64	34,358	6,331	1.59

42000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYL42UCDDA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Standard Remote Control (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle.

Uses wind baffle QAWB38A (x2)

Uses snow hood UAWB86A

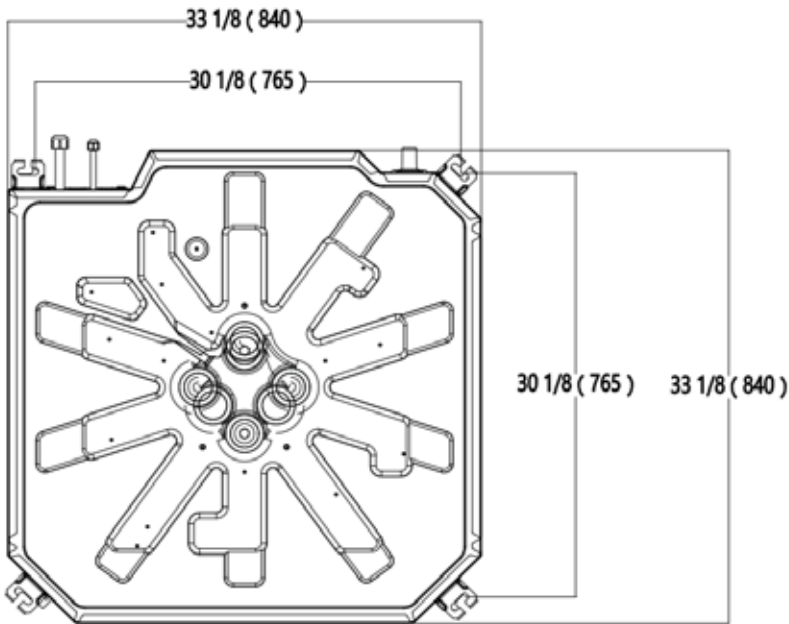
Panel

PB-950KD is required to complete the installation and it must be ordered separately

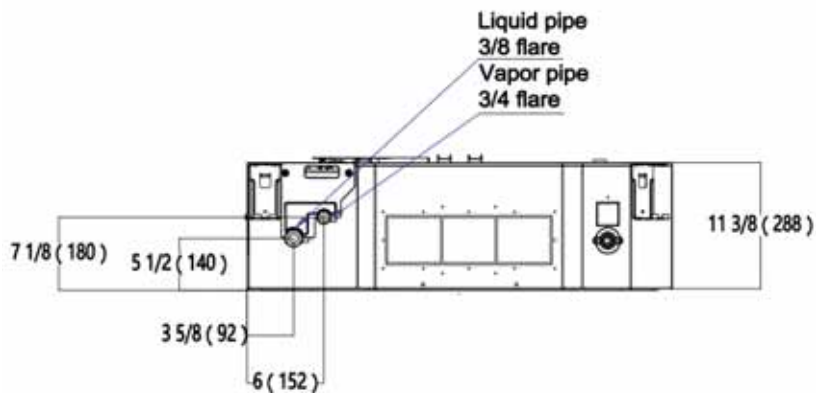
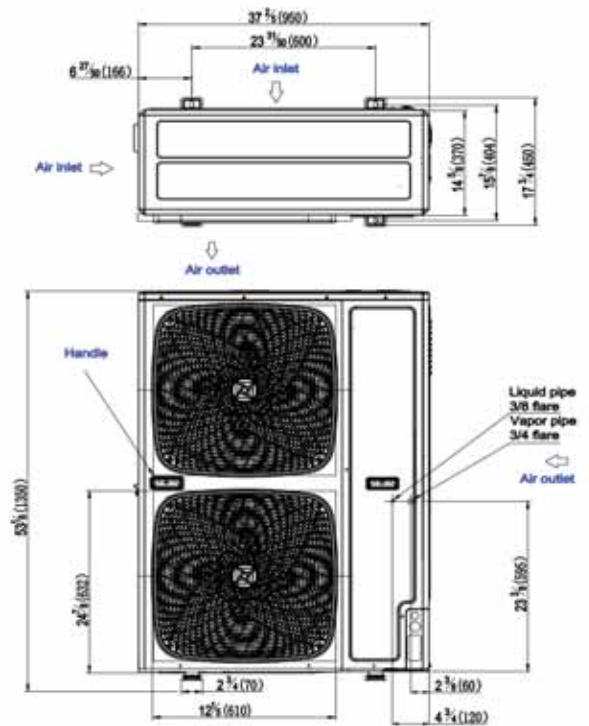
Operating Range	Cooling w/o Wind Baffle °F (°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F (°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~4°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	42,000
	Capacity Range Btu/hr	11,500~43,000
	SEER2/EER2	18.0/8.7
	Rated Power Input W	4,850
Heating	Moisture Removal Pt./hr	12.0
	Rated Heating Capacity 47°F Btu/hr	44,000
	Heating Capacity Range Btu/hr	9,000~46,000
	HSPF2 (I)/HSPF2 (V)	8.5/6.8
Outdoor Unit	Rated Power Input W	5,000
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	40
	Minimum Circuit AmpA	35
	Dimension: H x W x D in (mm)	53 1/8 x 37 1/2 x 14 5/8 (1350 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	61 3/4 x 41 3/8 x 19 1/8 (1568 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	262/216 (119/98)
	Base Pan Heater	Built-in
Indoor Unit	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low)	1236/967/830/740
	Indoor Motor Speed RPM (Turbo/High/Med/Low)	800/730/600/500
	Indoor Sound Level dB (Turbo/High/Med/Low)	54/51/48/46
	Dimension: H x W x D in (mm)	11 3/8 x 33 1/8 x 33 1/8 (246 x 840 x 840)
	Carton Dimension: H x W x D in (mm)	15 1/2 x 38 5/8 x 38 5/8 (350 x 980 x 980)
	Drain Pipe Size O.D in	1 1/4
	Internal Condensate Pump	Standard
	Max. Drain-Lift height in(mm)	39 3/8 (1000)
	Weight Ship/Net - lbs	94/67 (43/30)
Grille	Model Number	PB-950KD
Piping	Line Size: Liquid (Suction) in.	3/8 (3/4)
	IDU Flare Size: Liquid (Suction) in.	3/8 (3/4)
	ODU Port Size: Liquid (Suction) in.	3/8 (3/4)
	Lineset Adapter Required	None
	Refrigerant (Factory Charge Oz.)	R410A (141.0)
	Max. Line Length/Height Ft (mm)	230/100 (70/30)

42000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYL42UCDDA

INDOOR UNIT



OUTDOOR UNIT



42000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYL42UCDDA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	26,520	1,087	24.39	27,340	1,145	23.89	28,185	1,205	23.39	28,608	1,235	23.17	29,180	1,272	22.94	29,618	1,310	22.61	30,062	1,349	22.28	30,663	1,397	21.95
32°F (0°C)	29,425	1,394	21.11	30,336	1,467	20.67	31,274	1,545	20.25	31,743	1,583	20.05	32,378	1,631	19.85	32,863	1,680	19.57	33,356	1,730	19.28	34,023	1,791	19.00
50°F (10°C)	32,039	1,687	18.99	33,030	1,776	18.60	34,051	1,869	18.22	34,562	1,916	18.04	35,253	1,973	17.86	35,782	2,033	17.60	36,319	2,093	17.35	37,045	2,167	17.10
68°F (20°C)	33,147	2,712	12.22	34,172	2,855	11.97	35,229	3,005	11.72	35,757	3,080	11.61	36,472	3,173	11.50	37,019	3,268	11.33	37,575	3,366	11.16	38,326	3,484	11.00
86°F (30°C)	37,147	3,669	10.13	38,296	3,862	9.92	39,481	4,065	9.71	40,073	4,166	9.62	40,874	4,291	9.52	41,488	4,420	9.39	42,110	4,553	9.25	42,952	4,712	9.12
95°F (35°C)	38,990	4,125	9.45	40,196	4,342	9.26	41,439	4,571	9.07	42,061	4,685	8.98	42,902	4,826	8.89	43,545	4,970	8.76	44,199	5,120	8.63	45,083	5,299	8.51
104°F (40°C)	36,505	4,166	8.76	37,634	4,385	8.58	38,798	4,616	8.40	39,380	4,732	8.32	40,167	4,874	8.24	40,770	5,020	8.12	41,381	5,170	8.00	42,209	5,351	7.89
110°F (43°C)	32,981	3,926	8.40	34,001	4,133	8.23	35,052	4,351	8.06	35,578	4,459	7.98	36,290	4,593	7.90	36,834	4,731	7.79	37,386	4,873	7.67	38,134	5,043	7.56
115°F (46°C)	29,457	3,686	7.99	30,368	3,881	7.83	31,307	4,085	7.66	31,776	4,187	7.59	32,412	4,312	7.52	32,898	4,442	7.41	33,392	4,575	7.30	34,059	4,735	7.19

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	32,267	1,149	28.09	33,265	1,209	27.51	34,294	1,273	26.94	34,808	1,305	26.68	35,505	1,344	26.42	36,570	1,398	26.17	37,301	1,439	25.91	38,047	1,483	25.66
14°F (-10°C)	32,317	1,172	27.57	33,317	1,234	27.00	34,347	1,299	26.45	34,862	1,331	26.19	35,560	1,371	25.93	36,626	1,426	25.68	37,359	1,469	25.43	38,106	1,513	25.19
23°F (-5°C)	32,431	1,196	27.11	33,434	1,259	26.56	34,468	1,325	26.01	34,985	1,358	25.75	35,685	1,399	25.50	36,755	1,455	25.26	37,490	1,499	25.01	38,240	1,544	24.77
32°F (0°C)	32,494	1,533	21.19	33,499	1,614	20.75	34,535	1,699	20.33	35,053	1,742	20.13	35,754	1,794	19.93	36,827	1,866	19.74	37,563	1,922	19.55	38,315	1,979	19.36
50°F (10°C)	32,679	1,856	17.61	33,690	1,953	17.25	34,732	2,056	16.89	35,253	2,107	16.73	35,958	2,171	16.57	37,037	2,257	16.41	37,778	2,325	16.25	38,533	2,395	16.09
68°F (20°C)	32,815	2,848	11.52	33,830	2,998	11.29	34,876	3,156	11.05	35,400	3,234	10.94	36,108	3,331	10.84	37,191	3,465	10.73	37,935	3,569	10.63	38,693	3,676	10.53
86°F (30°C)	36,665	3,821	9.60	37,799	4,022	9.40	38,968	4,233	9.21	39,553	4,339	9.12	40,344	4,469	9.03	41,554	4,648	8.94	42,385	4,787	8.85	43,233	4,931	8.77
95°F (35°C)	38,210	4,331	8.82	39,392	4,559	8.64	40,610	4,799	8.46	41,219	4,919	8.38	42,044	5,067	8.30	43,305	5,270	8.22	44,171	5,428	8.14	45,055	5,591	8.06
104°F (40°C)	35,932	4,316	8.33	37,043	4,543	8.15	38,189	4,782	7.99	38,762	4,901	7.91	39,537	5,048	7.83	40,723	5,250	7.76	41,537	5,408	7.68	42,368	5,570	7.61
110°F (43°C)	32,547	4,038	8.06	33,554	4,250	7.89	34,591	4,474	7.73	35,110	4,586	7.66	35,812	4,724	7.58	36,887	4,912	7.51	37,624	5,060	7.44	38,377	5,212	7.36
115°F (46°C)	29,162	3,760	7.76	30,064	3,958	7.60	30,994	4,166	7.44	31,459	4,271	7.37	32,088	4,399	7.29	33,050	4,575	7.22	33,711	4,712	7.15	34,386	4,853	7.09

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	32,359	1,183	27.35	33,360	1,245	26.79	34,392	1,311	26.23	34,908	1,344	25.98	35,606	1,384	25.73	36,674	1,439	25.48	37,408	1,483	25.23	38,156	1,527	24.99
14°F (-10°C)	32,160	1,207	26.64	33,155	1,271	26.09	34,180	1,338	25.55	34,693	1,371	25.30	35,387	1,412	25.06	36,448	1,469	24.81	37,177	1,513	24.57	37,921	1,558	24.33
23°F (-5°C)	32,274	1,232	26.20	33,272	1,297	25.66	34,301	1,365	25.13	34,816	1,399	24.88	35,512	1,441	24.64	36,577	1,499	24.40	37,309	1,544	24.17	38,055	1,590	23.93
32°F (0°C)	32,337	1,579	20.47	33,337	1,663	20.05	34,368	1,750	19.64	34,884	1,794	19.45	35,581	1,848	19.26	36,649	1,922	19.07	37,382	1,979	18.89	38,129	2,039	18.70
50°F (10°C)	32,522	1,911	17.02	33,528	2,012	16.67	34,565	2,118	16.32	35,084	2,171	16.16	35,785	2,236	16.01	36,859	2,325	15.85	37,596	2,395	15.70	38,348	2,467	15.55
68°F (20°C)	32,487	2,990	10.86	33,492	3,148	10.64	34,528	3,313	10.42	35,046	3,396	10.32	35,747	3,498	10.22	36,819	3,638	10.12	37,555	3,747	10.02	38,306	3,860	9.93
86°F (30°C)	36,298	3,990	9.10	37,421	4,200	8.91	38,578	4,421	8.73	39,157	4,532	8.64	39,940	4,668	8.56	41,138	4,854	8.47	41,961	5,000	8.39	42,800	5,150	8.31
95°F (35°C)	37,828	4,548	8.32	38,998	4,787	8.15	40,204	5,039	7.98	40,807	5,165	7.90	41,623	5,320	7.82	42,872	5,533	7.75	43,730	5,699	7.67	44,604	5,870	7.60
104°F (40°C)	35,573	4,491	7.92	36,673	4,728	7.76	37,807	4,976	7.60	38,374	5,101	7.52	39,141	5,254	7.45	40,316	5,464	7.38	41,122	5,628	7.31	41,944	5,797	7.24
110°F (43°C)	32,221	4,182	7.70	33,218	4,402	7.55	34,245	4,634	7.39	34,759	4,750	7.32	35,454	4,892	7.25	36,518	5,088	7.18	37,248	5,241	7.11	37,993	5,398	7.04
115°F (46°C)	28,870	3,873	7.45	29,763	4,077	7.30	30,684	4,291	7.15	31,144	4,399	7.08	31,767	4,531	7.01	32,720	4,712	6.94	33,374	4,853	6.88	34,042	4,999	6.81

42000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYL42UCDDA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	26,116	5,133	1.49	25,356	5,238	1.42	24,858	5,345	1.36	24,371	5,426	1.32	23,884	5,535	1.26	23,525	5,645	1.22	23,172	5,730	1.19
-5°F(-21°C)	29,771	5,063	1.72	28,904	5,166	1.64	28,337	5,271	1.58	27,782	5,352	1.52	27,226	5,459	1.46	26,818	5,568	1.41	26,415	5,651	1.37
0°F(-18°C)	33,426	4,992	1.96	32,452	5,094	1.87	31,816	5,198	1.79	31,192	5,277	1.73	30,568	5,383	1.66	30,110	5,490	1.61	29,658	5,573	1.56
5°F(-15°C)	35,185	5,200	1.98	34,160	5,306	1.89	33,491	5,415	1.81	32,834	5,497	1.75	32,177	5,607	1.68	31,695	5,719	1.62	31,219	5,805	1.58
14°F(-10°C)	35,362	5,044	2.05	34,332	5,147	1.95	33,659	5,252	1.88	32,999	5,332	1.81	32,339	5,439	1.74	31,854	5,548	1.68	31,376	5,631	1.63
23°F(-5°C)	37,298	5,126	2.13	36,212	5,231	2.03	35,502	5,338	1.95	34,806	5,419	1.88	34,110	5,528	1.81	33,598	5,638	1.75	33,094	5,723	1.69
32°F(0°C)	39,411	5,209	2.22	38,263	5,315	2.11	37,513	5,424	2.03	36,777	5,506	1.96	36,042	5,616	1.88	35,501	5,729	1.82	34,969	5,815	1.76
41°F(5°C)	43,756	5,002	2.56	42,482	5,104	2.44	41,649	5,208	2.34	40,832	5,287	2.26	40,015	5,393	2.17	39,415	5,501	2.10	38,824	5,583	2.04
47°F(8°C)	48,101	4,794	2.94	46,700	4,892	2.80	45,785	4,992	2.69	44,887	5,068	2.60	43,989	5,169	2.49	43,329	5,273	2.41	42,679	5,352	2.34
55°F(13°C)	47,620	4,555	3.06	46,233	4,648	2.92	45,327	4,742	2.80	44,438	4,815	2.71	43,549	4,911	2.60	42,896	5,009	2.51	42,253	5,084	2.44
65°F(18°C)	46,668	4,327	3.16	45,309	4,415	3.01	44,420	4,505	2.89	43,549	4,574	2.79	42,678	4,665	2.68	42,038	4,759	2.59	41,408	4,830	2.51
75°F(24°C)	43,868	3,678	3.50	42,590	3,753	3.33	41,755	3,829	3.20	40,936	3,888	3.09	40,118	3,966	2.96	39,516	4,045	2.86	38,923	4,106	2.78

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	26,900	5,184	1.52	26,116	5,290	1.45	25,604	5,370	1.40	25,102	5,452	1.35	24,600	5,561	1.30	24,206	5,661	1.25	23,868	5,746	1.22
-5°F(-21°C)	30,069	5,118	1.72	29,193	5,222	1.64	28,621	5,302	1.58	28,059	5,383	1.53	27,498	5,490	1.47	27,058	5,589	1.42	26,679	5,673	1.38
0°F(-18°C)	34,095	5,053	1.98	33,102	5,156	1.88	32,452	5,234	1.82	31,816	5,314	1.75	31,180	5,420	1.69	30,681	5,518	1.63	30,251	5,601	1.58
5°F(-15°C)	35,713	5,269	1.99	34,673	5,377	1.89	33,993	5,459	1.83	33,327	5,542	1.76	32,660	5,653	1.69	32,137	5,755	1.64	31,687	5,841	1.59

48000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYL48UCDDA

Job Name: _____

Purchaser: _____

Submitted To: _____

Construction: _____

Reference: _____

Approval: _____

Date: _____

Submitted By: _____

Unit: _____

Drawing #: _____



Accessories

Remote Controller

Ships with Standard Remote Control (WJ01X24721)

Wired Controller

Compatible with the Simplified (QACT17A) and Programmable (YR-E16B) wall controllers.

Built-in WiFi

Wind Baffle/Snow Hood

Cooling below 23°F (-5°C) requires wind baffle. Uses wind baffle QAWB38A (x2)

Uses snow hood UAWB86A

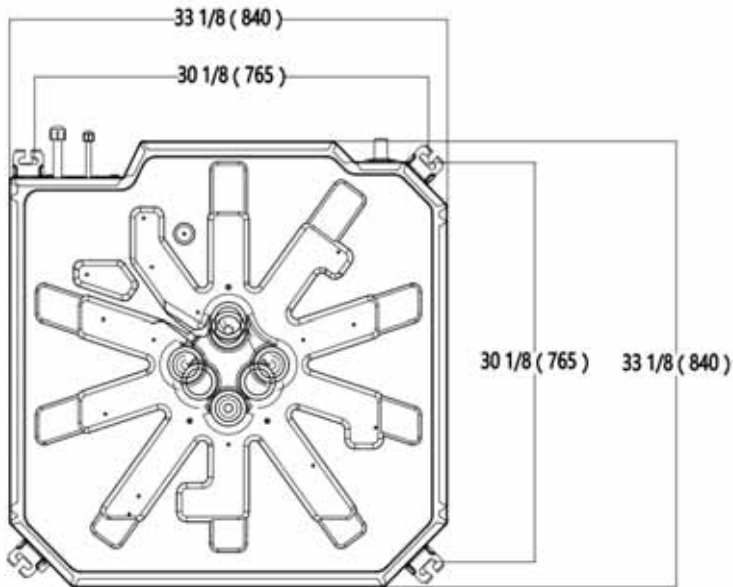
Panel

PB-950KD is required to complete the installation and it must be ordered separately

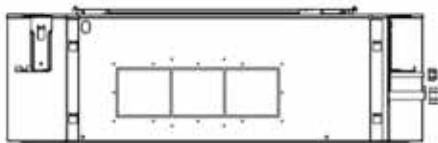
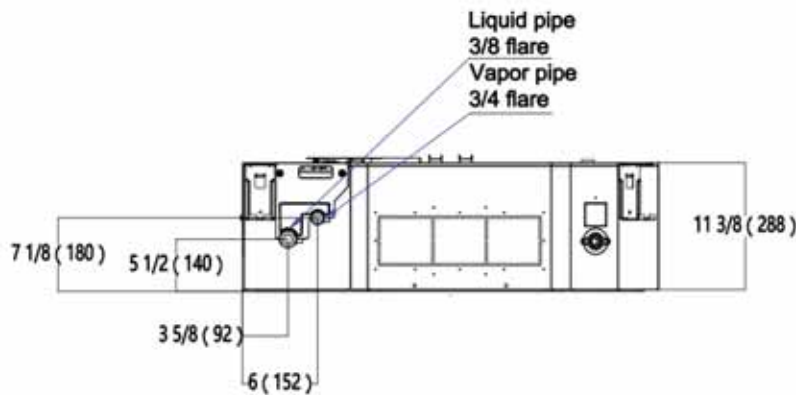
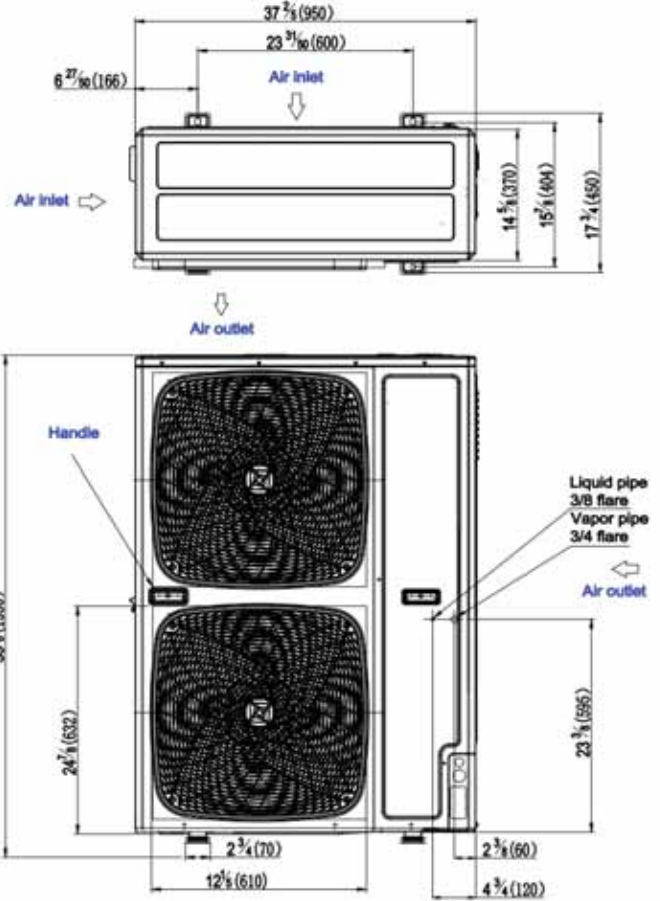
Operating Range	Cooling w/o Wind Baffle °F (°C)	23°F~115°F (-5~46°C)
	Cooling w/Wind Baffle °F (°C)	-4°F~115°F (-20~46°C)
	Heating °F (°C)	-15°F~75°F (-26~4°C)
Power	Power Supply	208/230V, 1 Phase, 60 HZ
	Operating Voltage Range	187~253 VAC
Cooling	Rated Capacity Btu/hr	47,000
	Capacity Range Btu/hr	12,000~48,000
	SEER2/EER2	17.0/8.0
	Rated Power Input W	5,950
Heating	Moisture Removal Pt./hr	12.0
	Rated Heating Capacity 47°F Btu/hr	47,000
	Heating Capacity Range Btu/hr	9,000~48,000
	HSPF2 (I)/HSPF2 (V)	8.5/6.9
Outdoor Unit	Rated Power Input W	6,000
	Compressor	DC inverter Driven Rotary
	Maximum Fuse Size A	40
	Minimum Circuit AmpA	35
Indoor Unit	Dimension: H x W x D in (mm)	53 1/8 x 37 1/2 x 14 5/8 (1350 x 950 x 370)
	Carton Dimension: H x W x D in (mm)	61 3/4 x 41 3/8 x 19 1/8 (1568 x 1050 x 485)
	Weight Ship/Net - lbs (kg)	262/216 (119/98)
	Base Pan Heater	Built-in
Indoor Unit	Fan Speed Stages	5 + Auto
	Airflow CFM (Turbo/High/Med/Low)	1236/967/830/740
	Indoor Motor Speed RPM (Turbo/High/Med/Low)	800/730/600/500
	Indoor Sound Level dB (Turbo/High/Med/Low)	54/51/48/46
Indoor Unit	Dimension: H x W x D in (mm)	11 3/8 x 33 1/8 x 33 1/8 (246 x 840 x 840)
	Carton Dimension: H x W x D in (mm)	15 1/2 x 38 5/8 x 38 5/8 (350 x 980 x 980)
	Drain Pipe Size O.D in	1 1/4
	Internal Condensate Pump	Standard
Indoor Unit	Max. Drain-Lift height in(mm)	39 3/8 (1000)
	Weight Ship/Net - lbs	94/67 (43/30)
Grille	Model Number	PB-950KD
Piping	Line Size: Liquid (Suction) in.	3/8 (3/4)
	IDU Flare Size: Liquid (Suction) in.	3/8 (3/4)
	ODU Port Size: Liquid (Suction) in.	3/8 (3/4)
	Lineset Adapter Required	None
Piping	Refrigerant (Factory Charge Oz.)	R410A (141.0)
	Max. Line Length/Height Ft (mm)	230/100 (70/30)

48000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYL48UCDDA

INDOOR UNIT



OUTDOOR UNIT



48000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYL48UCDDA

Cooling Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)																								
14°F (-10°C)																								
23°F (-5°C)	26,787	1,098	24.39	27,616	1,156	23.89	28,470	1,217	23.39	28,897	1,247	23.17	29,475	1,285	22.94	29,917	1,323	22.61	30,366	1,363	22.28	30,973	1,411	21.95
32°F (0°C)	29,723	1,408	21.11	30,642	1,482	20.67	31,590	1,560	20.25	32,064	1,599	20.05	32,705	1,647	19.85	33,195	1,697	19.57	33,693	1,748	19.28	34,367	1,809	19.00
50°F (10°C)	32,362	1,704	18.99	33,363	1,794	18.60	34,395	1,888	18.22	34,911	1,935	18.04	35,609	1,993	17.86	36,143	2,053	17.60	36,685	2,115	17.35	37,419	2,189	17.10
68°F (20°C)	34,989	3,161	11.07	36,072	3,327	10.84	37,187	3,502	10.62	37,745	3,590	10.51	38,500	3,698	10.41	39,077	3,809	10.26	39,664	3,923	10.11	40,457	4,060	9.96
86°F (30°C)	39,246	4,418	8.88	40,460	4,650	8.70	41,711	4,895	8.52	42,337	5,018	8.44	43,184	5,168	8.36	43,831	5,323	8.23	44,489	5,483	8.11	45,379	5,675	8.00
95°F (35°C)	42,615	5,069	8.41	43,933	5,336	8.23	45,292	5,617	8.06	45,971	5,757	7.98	46,891	5,930	7.91	47,594	6,108	7.79	48,308	6,291	7.68	49,274	6,511	7.57
104°F (40°C)	38,597	5,123	7.53	39,791	5,392	7.38	41,021	5,676	7.23	41,637	5,818	7.16	42,469	5,993	7.09	43,106	6,173	6.98	43,753	6,358	6.88	44,628	6,580	6.78
110°F (43°C)	34,176	4,829	7.08	35,233	5,084	6.93	36,322	5,351	6.79	36,867	5,485	6.72	37,604	5,649	6.66	38,168	5,819	6.56	38,741	5,994	6.46	39,516	6,203	6.37
115°F (46°C)	29,754	4,536	6.56	30,674	4,775	6.42	31,623	5,026	6.29	32,097	5,152	6.23	32,739	5,306	6.17	33,230	5,465	6.08	33,729	5,629	5.99	34,403	5,826	5.90

Wind Baffle Only

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	32,597	1,160	28.09	33,606	1,221	27.51	34,645	1,286	26.95	35,165	1,318	26.68	35,868	1,357	26.42	36,944	1,412	26.17	37,683	1,454	25.92	38,436	1,498	25.66
14°F (-10°C)	32,647	1,184	27.57	33,657	1,246	27.00	34,698	1,312	26.45	35,218	1,345	26.19	35,923	1,385	25.94	37,000	1,440	25.69	37,740	1,484	25.44	38,495	1,528	25.19
23°F (-5°C)	32,761	1,208	27.12	33,774	1,272	26.56	34,819	1,339	26.01	35,341	1,372	25.76	36,048	1,413	25.51	37,129	1,470	25.26	37,872	1,514	25.02	38,629	1,559	24.77
32°F (0°C)	32,824	1,549	21.19	33,839	1,630	20.75	34,886	1,716	20.33	35,409	1,759	20.13	36,117	1,812	19.93	37,201	1,884	19.74	37,945	1,941	19.55	38,704	1,999	19.36
50°F (10°C)	33,010	1,874	17.61	34,030	1,973	17.25	35,083	2,077	16.89	35,609	2,129	16.73	36,321	2,193	16.57	37,411	2,280	16.41	38,159	2,349	16.25	38,922	2,419	16.09
68°F (20°C)	34,640	3,319	10.44	35,711	3,494	10.22	36,815	3,677	10.01	37,368	3,769	9.91	38,115	3,882	9.82	39,258	4,038	9.72	40,044	4,159	9.63	40,844	4,284	9.53
86°F (30°C)	38,732	4,600	8.42	39,930	4,842	8.25	41,165	5,097	8.08	41,783	5,225	8.00	42,618	5,381	7.92	43,897	5,597	7.84	44,775	5,764	7.77	45,670	5,937	7.69
95°F (35°C)	41,763	5,323	7.85	43,055	5,603	7.68	44,386	5,898	7.53	45,052	6,045	7.45	45,953	6,227	7.38	47,332	6,476	7.31	48,278	6,670	7.24	49,244	6,870	7.17
104°F (40°C)	37,984	5,306	7.16	39,158	5,586	7.01	40,370	5,880	6.87	40,975	6,027	6.80	41,795	6,207	6.73	43,048	6,456	6.67	43,909	6,649	6.60	44,788	6,849	6.54
110°F (43°C)	33,720	4,967	6.79	34,763	5,228	6.65	35,838	5,503	6.51	36,376	5,641	6.45	37,103	5,810	6.39	38,216	6,042	6.32	38,981	6,224	6.26	39,760	6,410	6.20
115°F (46°C)	29,457	4,627	6.37	30,368	4,870	6.24	31,307	5,127	6.11	31,776	5,255	6.05	32,412	5,412	5.99	33,384	5,629	5.93	34,052	5,798	5.87	34,733	5,972	5.82

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																							
	60/50			64/53			70/67			77/64			80/67			82/70			86/72			90/75		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-40°F (-40°C)																								
-4°F (-20°C)	32,690	1,195	27.35	33,701	1,258	26.79	34,743	1,324	26.24	35,264	1,357	25.98	35,969	1,398	25.73	37,048	1,454	25.48	37,789	1,498	25.23	38,545	1,543	24.99
14°F (-10°C)	32,490	1,220	26.64	33,495	1,284	26.09	34,531	1,351	25.55	35,049	1,385	25.30	35,750	1,427	25.06	36,822	1,484	24.82	37,559	1,528	24.58	38,310	1,574	24.34
23°F (-5°C)	32,604	1,244	26.20	33,612	1,310	25.66	34,652	1,379	25.13	35,172	1,413	24.89	35,875	1,456	24.64	36,951	1,514	24.41	37,690	1,559	24.17	38,444	1,606	23.94
32°F (0°C)	32,667	1,595	20.48	33,677	1,679	20.05	34,719	1,768	19.64	35,240	1,812	19.45	35,944	1,866	19.26	37,023	1,941	19.07	37,763	1,999	18.89	38,519	2,059	18.71
50°F (10°C)	32,852	1,931	17.02	33,868	2,032	16.67	34,916	2,139	16.32	35,440	2,193	16.16	36,148	2,258	16.01	37,233	2,349	15.85	37,978	2,419	15.70	38,737	2,492	15.55
68°F (20°C)	34,293	3,485	9.84	35,354	3,668	9.64	36,447	3,861	9.44	36,994	3,958	9.35	37,734	4,077	9.26	38,866	4,240	9.17	39,643	4,367	9.08	40,436	4,498	8.99
86°F (30°C)	38,345	4,804	7.98	39,531	5,057	7.82	40,754	5,323	7.66	41,365	5,456	7.58	42,192	5,620	7.51	43,458	5,844	7.44	44,327	6,020	7.36	45,214	6,200	7.29
95°F (35°C)	41,345	5,589	7.40	42,624	5,883	7.25	43,942	6,193	7.10	44,601	6,348	7.03	45,493	6,538	6.96	46,858	6,800	6.89	47,795	7,003	6.82	48,751	7,214	6.76
104°F (40°C)	37,604	5,522	6.81	38,767	5,813	6.67	39,966	6,119	6.53	40,565	6,272	6.47	41,377	6,460	6.40	42,618	6,719	6.34	43,470	6,920	6.28	44,340	7,128	6.22
110°F (43°C)	33,383	5,144	6.49	34,415	5,415	6.36	35,480	5,700	6.22	36,012	5,842	6.16	36,732	6,017	6.10	37,834	6,258	6.05	38,591	6,446	5.99	39,363	6,639	5.93
115°F (46°C)	29,162	4,765	6.12	30,064	5,016	5.99	30,994	5,280	5.87	31,459	5,412	5.81	32,088	5,575	5.76	33,050	5,798	5.70	33,711	5,972	5.65	34,386	6,151	5.59

48000 BTU/HR LARGE CASSETTE INVERTER DRIVEN HEAT PUMP SYSTEM 1U4248LP2HDA / USYL48UCDDA

Heating Capacity Data

TC: Total Capacity, PI: Power Input

No Snow Hood and No Wind Baffle

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	26,236	5,387	1.43	25,472	5,497	1.36	24,973	5,610	1.30	24,483	5,695	1.26	23,993	5,809	1.21	23,633	5,925	1.17	23,279	6,014	1.13
-5°F(-21°C)	29,980	5,366	1.64	29,107	5,475	1.56	28,536	5,587	1.50	27,977	5,672	1.45	27,417	5,786	1.39	27,006	5,901	1.34	26,601	5,990	1.30
0°F(-18°C)	33,724	5,344	1.85	32,742	5,454	1.76	32,100	5,565	1.69	31,471	5,650	1.63	30,841	5,763	1.57	30,379	5,878	1.51	29,923	5,966	1.47
5°F(-15°C)	35,499	5,567	1.87	34,465	5,681	1.78	33,790	5,797	1.71	33,127	5,885	1.65	32,464	6,003	1.59	31,977	6,123	1.53	31,498	6,215	1.49
14°F(-10°C)	35,790	5,400	1.94	34,747	5,510	1.85	34,066	5,623	1.78	33,398	5,708	1.71	32,730	5,823	1.65	32,239	5,939	1.59	31,756	6,028	1.54
23°F(-5°C)	37,855	5,357	2.07	36,753	5,467	1.97	36,032	5,578	1.89	35,326	5,663	1.83	34,619	5,776	1.76	34,100	5,892	1.70	33,588	5,980	1.65
32°F(0°C)	40,211	5,315	2.22	39,040	5,423	2.11	38,274	5,534	2.03	37,524	5,618	1.96	36,774	5,730	1.88	36,222	5,845	1.82	35,679	5,933	1.76
41°F(5°C)	45,751	5,489	2.44	44,418	5,601	2.32	43,547	5,715	2.23	42,694	5,802	2.16	41,840	5,918	2.07	41,212	6,036	2.00	40,594	6,127	1.94
47°F(8°C)	51,291	5,663	2.65	49,797	5,778	2.53	48,820	5,896	2.43	47,863	5,986	2.34	46,906	6,106	2.25	46,202	6,228	2.17	45,509	6,321	2.11
55°F(13°C)	50,778	5,380	2.77	49,299	5,489	2.63	48,332	5,601	2.53	47,384	5,687	2.44	46,437	5,800	2.35	45,740	5,916	2.27	45,054	6,005	2.20
65°F(18°C)	49,762	5,111	2.85	48,313	5,215	2.72	47,365	5,321	2.61	46,437	5,402	2.52	45,508	5,510	2.42	44,825	5,621	2.34	44,153	5,705	2.27
75°F(24°C)	46,776	4,344	3.16	45,414	4,433	3.00	44,523	4,523	2.88	43,650	4,592	2.79	42,777	4,684	2.68	42,136	4,778	2.58	41,504	4,849	2.51

Wind Baffle and Snow Hood

Outdoor Air Temp DB	Indoor Temperature (°F, DB)																				
	60			64			68			70			72			75			80		
	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP	TC (Btu/h)	PI (W)	COP
-15°F(-26°C)	27,023	5,440	1.46	26,236	5,551	1.39	25,722	5,635	1.34	25,217	5,721	1.29	24,713	5,835	1.24	24,318	5,940	1.20	23,977	6,030	1.17
-5°F(-21°C)	30,280	5,423	1.64	29,398	5,533	1.56	28,822	5,618	1.50	28,257	5,703	1.45	27,691	5,817	1.40	27,248	5,922	1.35	26,867	6,011	1.31
0°F(-18°C)	34,399	5,407	1.86	33,397	5,517	1.77	32,742	5,601	1.71	32,100	5,687	1.65	31,458	5,800	1.59	30,955	5,905	1.54	30,521	5,993	1.49
5°F(-15°C)	36,032	5,638	1.87	34,982	5,753	1.78	34,296	5,841	1.72	33,624	5,930	1.66	32,951	6,049	1.60	32,424	6,157	1.54	31,970	6,250	1.50