



GE APPLIANCES

Single-Zone

Ductless Multi-Split Heat Pumps



**1G24ED2BEA
1G3036ED2BEA**



Wall Mount - Highwall

**GS24WP2BEA
GS30WB2BEA
GS36WB2BEA**



Cassette

**US24LB2BEA
US30LB2BEA
US36LB2BEA**



Ducted

**US24MB2BEA
US30MB2BEA
US36MB2BEA**



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AIR&WATER
SOLUTIONS



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Revision History

11-21-25: Edition release.

1. SPECIFICATIONS

NOTE

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		PREMIUM HIGHWALL	STANDARD HIGHWALL	
Outdoor Unit		1G24ED2BEA	1G3036ED2BEA	1G3036ED2BEA
Indoor Unit		GS24WP2BEB	GS30WB2BEA	GS36WB2BEA
Cooling	Rated Capacity Btu/hr	24,000	30,000	32,400
	Capacity Range Btu/hr	4,500-26,000	6,000-31,000	6,000-33,500
	SEER2	20	20	20
	EER2	11.2	11.2	10.5
	Moisture Removal Pt./hr	6	7.5	7.9
Heating	Rated Heating Capacity 47°F Btu/hr	24,000	31,000	37,000
	Heating Capacity Range Btu/hr	4,000-26,000	6,500-32,500	6,500-37,000
	HSPF2 (IV)	9.5	9.5	9.5
	Rated Heating Capacity 5°F Btu/hr	22,000	25,800	26,200
	Heating Capacity at 5°F / Capacity at 47°F	92%	83%	71%
	COP 5°F	1.8	1.8	1.8
Operating Range	Cooling (Without Wind Baffle or Top Cover)	23~115°F (-5~46°C)	23~115°F (-5~46°C)	23~115°F (-5~46°C)
	Heating	-22~75°F (-30~24°C)	-22~75°F (-30~24°C)	-22~75°F (-30~24°C)
Power Supply	Voltage, Cycle, Phase (V/Hz/-)	208-230/60/1	208-230/60/1	208-230/60/1
	Maximum Fuse Size A	30	40	40
	Minimum Circuit Amp A	22	25	25
Outdoor Unit	Compressor Type	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary
	Outdoor Noise Level dB	64	72	73
	Dimension: H x W x D in (mm)	30 1/8 x 40 3/16 x 17 1/8 (765 x 1021 x 435)	33 1/16 x 43 1/8 x 19 7/8 (840 x 1095 x 505)	33 1/16 x 43 1/8 x 19 7/8 (840 x 1095 x 505)
	Weight (Net/Ship) - lbs (kg)	134.7/173.06 (61.1/78.5)	165.42/211.64 (75/96)	165.42/211.64 (75/96)
	Basepan Heater	Yes	Yes	Yes
Indoor Unit	Fan Speed Stages	5 + Auto	5 + Auto	5 + Auto
	Airflow CFM: Cooling (Turbo/High/Med/Low/Quiet)	800/730/630/535/440	800/725/650/510/430	840/765/690/550/470
	Airflow CFM: Heating (Turbo/High/Med/Low/Quiet)	800/730/630/535/440	800/725/650/510/430	840/765/690/550/470
	Indoor Sound Level dB: Cooling (Turbo/High/Med/Low/Quiet)	54/50/47/44/38	55/53/49/44/40	56/54/50/44/40
	Indoor Sound Level dB: Heating (Turbo/High/Med/Low/Quiet)	54/50/47/44/38	55/53/49/44/40	56/54/50/44/40
	Auto Up-Down Louver	Yes	Yes	Yes
	Auto Left-Right Louver	Yes	No	No
	Drain Pipe Size O.D in	5/8	5/8	5/8
	Dimension: H x W x D in (mm)	13 1/2 x 44 1/2 x 9 1/8 (343 x 1129 x 232)	14 3/8 x 52 3/4 x 10 3/4 (365 x 1341 x 274)	14 3/8 x 52 3/4 x 10 3/4 (365 x 1341 x 274)
	Weight (Net/Ship) - lbs (kg)	34.86/43.03 (15.8/19.5)	46.34/56.27 (21/25.5)	46.34/56.27 (21/25.5)
	Factory-Installed Refrigerant Detection Sensor (RDS)	No	No	No
	Refrigerant Detection Sensor (RDS) Compatible	Yes (UALS01A, sold separately)	Yes (UALS01A, sold separately)	Yes (UALS01A, sold separately)
	WiFi*	Built-in	Built-in	Built-in
Refrigerant Lines	Refrigerant	R454B	R454B	R454B
	Connections	Flare	Flare	Flare
	Liquid O.D. in	1/4	3/8	3/8
	Suction O.D. in	1/2	5/8	5/8
	Factory Charge Oz	77.7	109.4	109.4
	Maximum Line Length Ft / m	165/50	165/50	165/50
	Maximum Height Ft / m	100/30	100/30	100/30

*WiFi includes SmartHQ™ Home and SmartHQ™ Service compatibility.

1. SPECIFICATIONS

NOTE

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Outdoor Unit		1G24ED2BEA	1G3036ED2BEA	1G3036ED2BEA
Indoor Unit		US24LB2BEA	US30LB2BEA	US36LB2BEA
Panel (required, sold separately)		GALCP01GA	GALCP01GA	GALCP01GA
Cooling	Rated Capacity Btu/hr	24,000	30,000	36,000
	Capacity Range Btu/hr	6,000-25,000	9,000-32,000	9,000-37,500
	SEER2	20	20	19
	EER2	12	12	11
	Moisture Removal Pt./hr	3.78	5.00	6.63
Heating	Rated Heating Capacity 47°F Btu/hr	26,000	32,000	37,000
	Heating Capacity Range Btu/hr	6,000-27,000	9,000-33,500	9,000-38,500
	HSPF2 (IV)	10.0	10.0	10.0
	Rated Heating Capacity 5°F Btu/hr	22,000	27,000	29,000
	Heating Capacity at 5°F / Capacity at 47°F	85%	84%	78%
COP 5°F		1.8	1.8	1.8
Operating Range	Cooling (Without Wind Baffle or Top Cover)	23~115°F (-5~46°C)	23~115°F (-5~46°C)	23~115°F (-5~46°C)
	Heating	-22~75°F (-30~24°C)	-22~75°F (-30~24°C)	-22~75°F (-30~24°C)
Power Supply	Voltage, Cycle, Phase (V/Hz/-)	208-230/60/1	208-230/60/1	208-230/60/1
	Maximum Fuse Size A	30	40	40
	Minimum Circuit Amp A	22	25	25
Outdoor Unit	Compressor Type	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary
	Outdoor Noise Level dB	68	72	73
	Dimension: H x W x D in (mm)	30 1/8 x 40 3/16 x 17 1/8 (765 x 1021 x 435)	33 1/16 x 43 1/8 x 19 7/8 (840 x 1095 x 505)	33 1/16 x 43 1/8 x 19 7/8 (840 x 1095 x 505)
	Weight (Net/Ship) - lbs (kg)	134.7/173.06 (61.1/78.5)	165.42/211.64 (75/96)	165.42/211.64 (75/96)
	Basepan Heater	Yes	Yes	Yes
Indoor Unit	Fan Speed Stages	5 + Auto	5 + Auto	5 + Auto
	Airflow CFM: Cooling (Turbo/High/Med/Low/Quiet)	1033/873/858/640/400	1247/1200/1033/873/650	1247/1200/1033/873/650
	Airflow CFM: Heating (Turbo/High/Med/Low/Quiet)	1033/873/858/640/400	1247/1200/1033/873/650	1247/1200/1033/873/650
	Indoor Sound Level dB: Cooling (Turbo/High/Med/Low/Quiet)	46/44/41/38/35	51/50/45/44/39	51/50/45/44/39
	Indoor Sound Level dB: Heating (Turbo/High/Med/Low/Quiet)	46/44/42/39/36	51/50/45/44/39	51/50/45/44/39
	Auto Up-Down Louver	Yes	Yes	Yes
	Auto Left-Right Louver	No	No	No
	Dimension: H x W x D in (mm)	9 3/4 x 33 x 33 (248 x 840 x 840)	9 3/4 x 33 x 33 (248 x 840 x 840)	9 3/4 x 33 x 33 (248 x 840 x 840)
	Weight (Net/Ship) - lbs (kg)	56.22/85.32 (25.5/38.7)	56.22/85.32 (25.5/38.7)	56.22/85.32 (25.5/38.7)
	Drain Pipe Size O.D in	1*	1*	1*
	Condensate Pump	Built-In	Built-In	Built-In
	Max. Drain-Lift Height in (mm)	47 1/4 (1200)	47 1/4 (1200)	47 1/4 (1200)
	Factory-Installed Refrigerant Detection Sensor (RDS)	No	No	No
Refrigerant Lines	Refrigerant Detection Sensor (RDS) Compatible	Yes (UALS01A, sold separately)	Yes (UALS01A, sold separately)	Yes (UALS01A, sold separately)
	WiFi**	Built-in	Built-in	Built-in
	Refrigerant	R454B	R454B	R454B
	Connections	Flare	Flare	Flare
	Liquid O.D. in	3/8	3/8	3/8
	Suction O.D. in	5/8	3/4	3/4
	Factory Charge Oz	77.7	109.4	109.4
	Maximum Line Length Ft / m	165/50	165/50	165/50
	Maximum Height Ft / m	100/30	100/30	100/30

*Condensate drain adapter shipped with the indoor unit is designed to accept a 3/4" PVC pipe.

**WiFi includes SmartHQ™ Home and SmartHQ™ Service compatibility.

1. SPECIFICATIONS

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Outdoor Unit		1G24ED2BEA	1G3036ED2BEA	1G3036ED2BEA
Indoor Unit		US24MB2BEA	US30MB2BEA	US36MB2BEA
Cooling	Rated Capacity Btu/hr	24,000	30,000	36,000
	Capacity Range Btu/hr	6,000-25,000	9,000-31,000	9,000-36,500
	SEER2	18.2	17.6	17.4
	EER2	11.7	10.8	9.8
	Moisture Removal Pt./hr	4.19	5.07	7.6
Heating	Rated Heating Capacity 47°F Btu/hr	26,000	32,000	36,000
	Heating Capacity Range Btu/hr	6,000-26,500	9,000-33,000	9,000-36,500
	HSPF2 (IV)	10.5	10	9.5
	Rated Heating Capacity 5°F Btu/hr	23,000	24,000	26,000
	Heating Capacity at 5°F / Capacity at 47°F	88%	75%	72%
Operating Range	COP 5°F	1.8	1.8	1.8
	Cooling (Without Wind Baffle or Top Cover)	23~115°F (-5~46°C)	23~115°F (-5~46°C)	23~115°F (-5~46°C)
Power Supply	Heating	-22~75°F (-30~24°C)	-22~75°F (-30~24°C)	-22~75°F (-30~24°C)
	Voltage, Cycle, Phase (V/Hz/-)	208-230/60/1	208-230/60/1	208-230/60/1
	Maximum Fuse Size A	30	40	40
Outdoor Unit	Minimum Circuit Amp A	22	25	25
	Compressor Type	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary
	Outdoor Noise Level dB	68	72	73
	Dimension: H x W x D in (mm)	30 1/8 x 40 3/16 x 17 1/8 (765 x 1021 x 435)	33 1/16 x 43 1/8 x 19 7/8 (840 x 1095 x 505)	33 1/16 x 43 1/8 x 19 7/8 (840 x 1095 x 505)
	Weight (Net/Ship) - lbs (kg)	134.7/173.06 (61.1/78.5)	165.42/211.64 (75/96)	165.42/211.64 (75/96)
Indoor Unit	Basepan Heater	Yes	Yes	Yes
	Fan Speed Stages	5 + Auto	5 + Auto	5 + Auto
	Airflow CFM: Cooling (Turbo/High/Med/Low/Quiet)	927/844/667/564/482	1236/1130/953/812/688	1236/1130/953/812/688
	Airflow CFM: Heating (Turbo/High/Med/Low/Quiet)	927/844/667/564/482	1236/1130/953/812/688	1236/1130/953/812/688
	Indoor Sound Level dB: Cooling (Turbo/High/Med/Low/Quiet)	44/43/42/40/38	46/45/41/38/36	46/45/41/38/36
	Indoor Sound Level dB: Heating (Turbo/High/Med/Low/Quiet)	44/43/42/40/38	46/45/41/38/36	46/45/41/38/36
	Dimension: H x W x D in (mm)	9 3/4 x 47 1/2 x 27 1/2 (248 x 1207 x 700)	9 3/4 x 63 1/4 x 27 1/2 (248 x 1607 x 700)	9 3/4 x 63 1/4 x 27 1/2 (248 x 1607 x 700)
	Weight (Net/Ship) - lbs (kg)	87.74/123.46 (39.8/56)	115.08/158.29 (52.2/71.8)	115.08/158.29 (52.2/71.8)
	Drain Pipe Size O.D in	1*	1*	1*
	Max. External Static Pressure in.W.G (Pa)	0.6 (150)	0.6 (150)	0.6 (150)
	Condensate Pump	Built-in	Built-in	Built-in
	Max. Drain-lift height in (mm)	27 1/2 (700)	27 1/2 (700)	27 1/2 (700)
	Factory-Installed Refrigerant Detection Sensor (RDS)	Yes	Yes	Yes
	WiFi**	Built-in	Built-in	Built-in
Refrigerant Lines	Refrigerant	R454B	R454B	R454B
	Connections	Flare	Flare	Flare
	Liquid O.D. in	3/8	3/8	3/8
	Suction O.D. in	5/8	3/4	3/4
	Factory Charge Oz	77.7	109.4	109.4
	Maximum Line Length Ft / m	165/50	165/50	165/50
	Maximum Height Ft / m	100/30	100/30	100/30

* Condensate drain adapter shipped with the indoor unit is designed to accept a 3/4" PVC pipe.

**WiFi includes SmartHQ™ Home and SmartHQ™ Service compatibility.

2.1 General

(2.1.1) Description

- A. The single heat pump air conditioner shall be a variable capacity, mini-split type system comprised of a single outdoor and a single wall-mounted indoor unit.

(2.1.2) Toxicity

- A. The heat pump system shall participate in RoHS compliance and listed in the directory.

2.2 Performance and Operating Range

(2.2.1) Operating Range

- A. The heat pump unit shall provide cooling temperature range of 23°~115°F (-5°C~46°C).
 B. The heat pump system shall be capable of providing greater than 70% capacity at -22°F (-30°C) outdoor ambient temperature.
 C. The heat pump system shall be capable of providing 100% cooling capacity at 0°F (-18°C) outdoor ambient temperature.
 D. The heat pump shall operate normally with voltages between 208~230V.

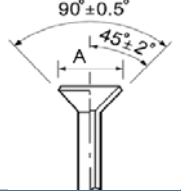
(2.2.2) Performance

- A. Cooling performance rating shall be verified following AHRI 210/240 standards of 80°F DB/67°F WB (27°/19°C) indoor temperature and 95°F DB/75°F WB (35°/24°C) outdoor temperature.
 B. Heating performance rating shall be verified following AHRI 210/240 standards of 70°F DB/60°F WB (21°/16°C) indoor temperature and 47°F DB/43°F WB (8°/6°C) outdoor temperature.

2.3 Installation Requirements

(2.3.1) Lineset

- A. The connecting refrigerant lines between the indoor and outdoor units are to be supplied by the installer.
 B. The tubing must be annealed ACR- type copper, meeting ASTM B280 standards.
 C. The connecting tubing between the outdoor and indoor units shall be continuous in all possible situations.
 D. The tubing ends must be reamed inside and out, and must be flared using a 45° flaring tool approved for R454B.
 E. Connections to the indoor and outdoor units shall be made with flare nuts that are supplied with the individual units.
 F. The flare nuts must be attached to indoor and outdoor units using a torque wrench and back-up wrench.
 G. Each tube must be insulated with a minimum of 1/2 inch (12.7mm) closed-foam insulation that is UV resistant and meets ASTM Standard E84 25/50 flame spread/smoke development.
 H. The lineset between the indoor and outdoor must not exceed the listed maximum length and maximum height difference. (See section 1. Specifications, outdoor units).

Pipe Size	Torque	A (inch)	Flare Shape
1/4	12 lb/ft 16.3 Nm	0.327-0.343	
3/8	27 lb/ft 36.6 Nm	0.472-0.488	
1/2	40 lb/ft 54.2 Nm	0.488-0.654	
5/8	50 lb/ft 67.8 Nm	0.732-0.748	
3/4	80 lb/ft 108.5 Nm	0.902-0.917	

2.4 Electrical Requirements

(2.4.1) Electrical Supply

- A. The operating electrical requirements shall be 208/230 volts AC, single-phase, 60 hertz. Voltage supplied to the outdoor unit must be between 187-253 volts.
 B. Power supply must be installed in accordance to local building and electrical code.

(2.4.2) Connecting Wire to Indoor

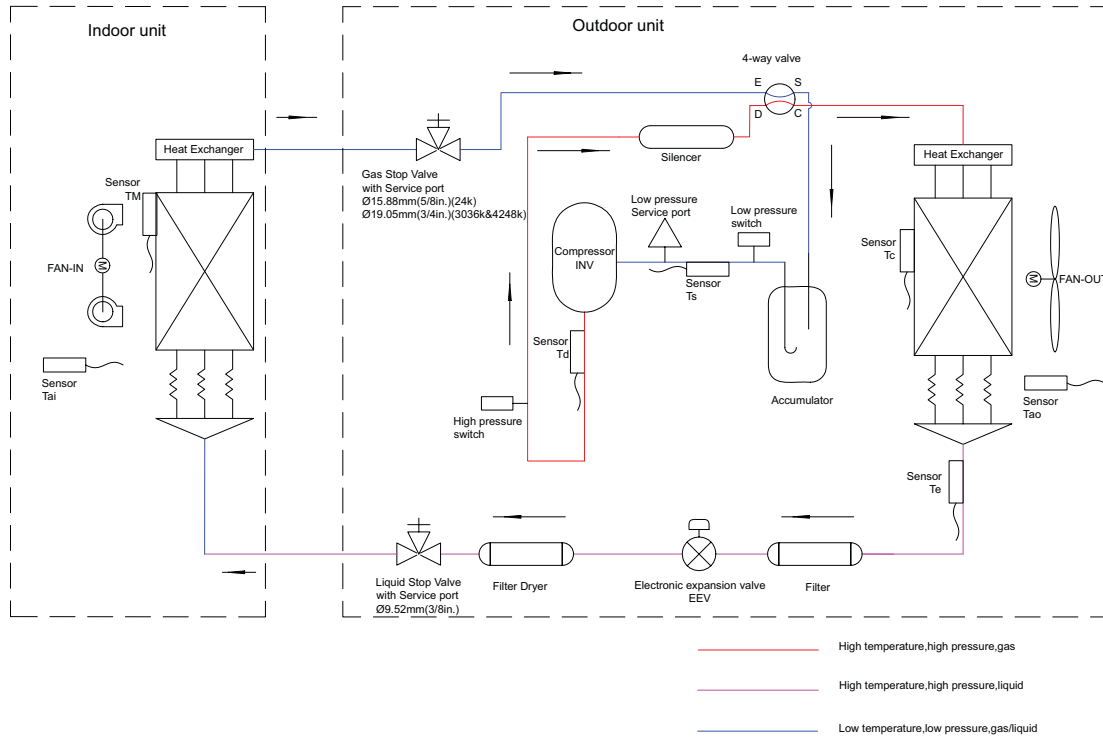
- C. Connecting cable between the indoor unit(s) must be made with 4 conductor - 14 AWG stranded copper wire.
 D. Connecting wire must be continuous (without break) unless local code requires power disconnect next to indoor unit.

2.5 Refrigerant System Diagrams

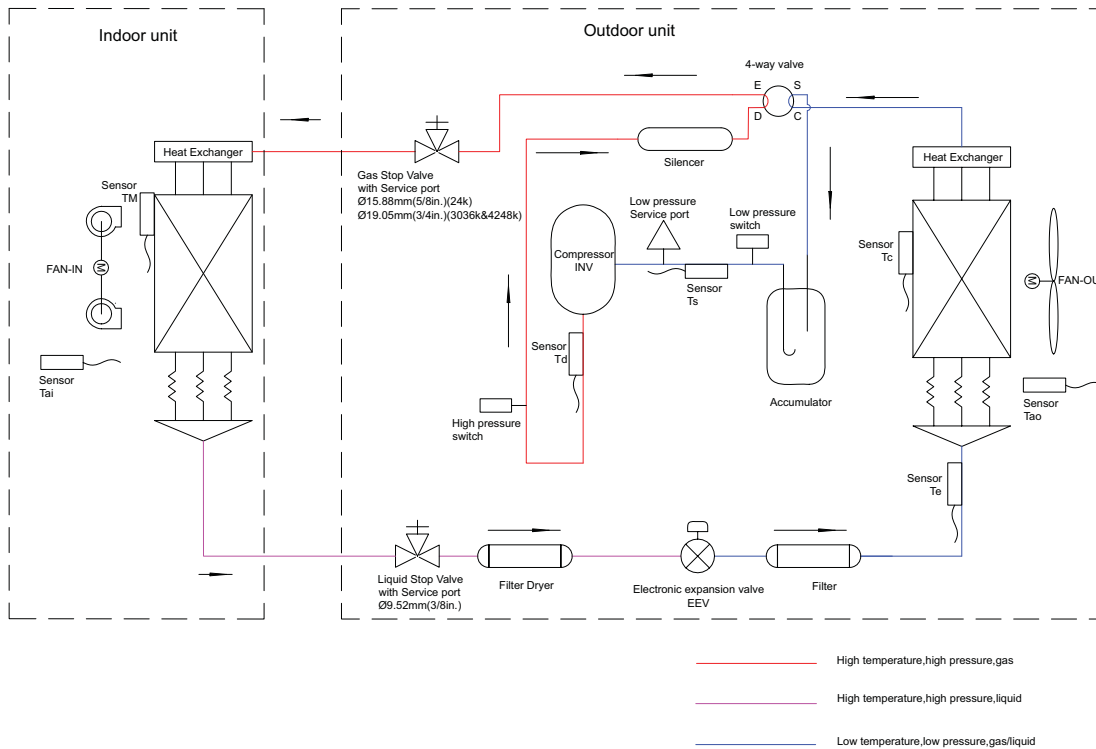
1G24ED2BEA

1G3036ED2BEA

COOLING



HEATING



2.6 Capacity Tables

1G24ED2BEA & US24LB2BEA (Cooling)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB/°F WB(°C DB/°C WB)																				
	60/50 (15.6/10.0)			64/53 (17.8/11.7)			70/57 (21.1/13.9)			75/62 (23.9/16.7)			80/67 (26.7/19.4)			86/72 (30.0/22.2)			90/75 (32.2/23.9)		
	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
23°F (-5°C)	16,781	903	5.45	17,664	913	5.67	18,989	922	6.04	20,314	931	6.39	22,080	941	6.88	23,405	950	7.22	24,509	960	7.49
32°F (0°C)	17,875	1,167	4.49	18,816	1,179	4.68	20,227	1,191	4.98	21,638	1,203	5.27	23,520	1,215	5.67	24,931	1,227	5.95	26,107	1,240	6.17
50°F (10°C)	18,605	1,336	4.08	19,584	1,350	4.25	21,053	1,364	4.52	22,522	1,378	4.79	24,480	1,392	5.16	25,949	1,406	5.41	27,173	1,419	5.61
68°F (20°C)	20,976	1,599	3.84	22,080	1,616	4.00	23,736	1,633	4.26	25,392	1,649	4.51	27,600	1,666	4.86	29,256	1,683	5.10	30,636	1,699	5.28
86°F (30°C)	20,611	1,957	3.09	21,696	1,977	3.22	23,323	1,998	3.42	24,950	2,018	3.62	27,120	2,038	3.90	28,747	2,059	4.09	30,103	2,079	4.24
95°F (35°C)	18,240	1,920	2.78	19,200	1,940	2.90	20,640	1,960	3.09	22,080	1,980	3.27	24,000	2,000	3.52	25,440	2,020	3.69	26,640	2,040	3.83
104°F (40°C)	17,875	2,164	2.42	18,816	2,186	2.52	20,227	2,209	2.68	21,638	2,231	2.84	23,520	2,254	3.06	24,931	2,277	3.21	26,107	2,299	3.33
110°F (43°C)	17,328	2,296	2.21	18,240	2,319	2.30	19,608	2,343	2.45	20,976	2,367	2.60	22,800	2,391	2.79	24,168	2,415	2.93	25,308	2,439	3.04
115°F (46°C)	16,781	2,408	2.04	17,664	2,434	2.13	18,989	2,459	2.26	20,314	2,484	2.40	22,080	2,509	2.58	23,405	2,534	2.71	24,509	2,559	2.81

1G24ED2BEA & US24LB2BEA (Heating)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB(°C DB)																	
	60(15.6)			65(18.3)			70(21.1)			75(23.9)			80(26.7)			86(30.0)		
	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 (-26.1°C)	13,122	2,080	1.85	12,931	2,172	1.75	12,740	2,286	1.63	12,485	2,377	1.54	12,230	2,469	1.45	11,976	2,606	1.35
-4°F (-20°C)	16,068	2,340	2.01	15,834	2,443	1.90	15,600	2,572	1.78	15,288	2,675	1.68	14,976	2,777	1.58	14,664	2,932	1.47
0°F (-17.8°C)	18,746	2,514	2.19	18,473	2,624	2.06	18,200	2,762	1.93	17,836	2,873	1.82	17,472	2,983	1.72	17,108	3,149	1.59
5°F (-15°C)	22,660	3,259	2.04	22,330	3,402	1.92	22,000	3,581	1.80	21,560	3,725	1.70	21,120	3,868	1.60	20,680	4,083	1.48
14°F (-10°C)	21,424	2,462	2.55	21,112	2,570	2.41	20,800	2,705	2.25	20,384	2,813	2.12	19,968	2,922	2.00	19,552	3,084	1.86
23°F (-5°C)	22,763	1,907	3.50	22,432	1,991	3.30	22,100	2,096	3.09	21,658	2,179	2.91	21,216	2,263	2.75	20,774	2,389	2.55
32°F (0°C)	25,441	1,994	3.74	25,071	2,081	3.53	24,700	2,191	3.30	24,206	2,278	3.11	23,712	2,366	2.94	23,218	2,497	2.72
41°F (5°C)	28,119	2,115	3.90	27,710	2,208	3.68	27,300	2,324	3.44	26,754	2,417	3.24	26,208	2,510	3.06	25,662	2,649	2.84
47°F (8.3°C)	26,780	1,734	4.53	26,390	1,810	4.27	26,000	1,905	4.00	25,480	1,981	3.77	24,960	2,057	3.56	24,440	2,172	3.30
55°F (12.8°C)	28,119	1,682	4.90	27,710	1,755	4.63	27,300	1,848	4.33	26,754	1,922	4.08	26,208	1,996	3.85	25,662	2,107	3.57
65°F (18.3°C)	30,797	1,820	4.96	30,349	1,900	4.68	29,900	2,000	4.38	29,302	2,080	4.13	28,704	2,160	3.89	28,106	2,280	3.61
75°F (23.9°C)	33,475	1,959	5.01	32,988	2,045	4.73	32,500	2,153	4.42	31,850	2,239	4.17	31,200	2,325	3.93	30,550	2,454	3.65
86°F (30°C)	36,153	2,115	5.01	35,627	2,208	4.73	35,100	2,324	4.43	34,398	2,417	4.17	33,696	2,510	3.93	32,994	2,649	3.65

1G24ED2BEA & US24MB2BEA (Cooling)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB/°F WB(°C DB/°C WB)																				
	60/50 (15.6/10.0)			64/53 (17.8/11.7)			70/57 (21.1/13.9)			75/62 (23.9/16.7)			80/67 (26.7/19.4)			86/72 (30.0/22.2)			90/75 (32.2/23.9)		
	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
23°F (-5°C)	16,641	975	5.00	17,517	985	5.21	18,831	995	5.55	20,144	1,005	5.87	21,896	1,015	6.32	23,210	1,025	6.63	24,305	1,036	6.88
32°F (0°C)	17,726	1,259	4.13	18,659	1,272	4.30	20,059	1,285	4.57	21,458	1,298	4.84	23,324	1,311	5.21	24,723	1,324	5.47	25,890	1,338	5.67
50°F (10°C)	18,450	1,442	3.75	19,421	1,457	3.91	20,877	1,472	4.16	22,334	1,487	4.40	24,276	1,502	4.74	25,733	1,517	4.97	26,946	1,532	5.16
68°F (20°C)	20,801	1,726	3.53	21,896	1,744	3.68	23,538	1,762	3.92	25,180	1,780	4.15	27,370	1,798	4.46	29,012	1,816	4.68	30,381	1,834	4.86
86°F (30°C)	20,439	2,112	2.84	21,515	2,134	2.96	23,129	2,156	3.14	24,742	2,178	3.33	26,894	2,200	3.58	28,508	2,222	3.76	29,852	2,244	3.90
95°F (35°C)	18,088	1,974	2.69	19,040	1,996	2.80	20,468	2,015	2.98	21,896	2,036	3.15	24,000	2,051	3.43	25,228	2,076	3.56	26,418	2,101	3.69
104°F (40°C)	17,726	2,335	2.22	18,659	2,359	2.32	20,059	2,384	2.47	21,458	2,408	2.61	23,324	2,432	2.81	24,723	2,457	2.95	25,890	2,481	3.06
110°F (43°C)	17,184	2,477	2.03	18,088	2,503	2.12	19,445	2,529	2.25	20,801	2,554	2.39	22,610	2,580	2.57	23,967	2,606	2.70	25,097	2,632	2.79
115°F (46°C)	16,641	2,599	1.88	17,517	2,626	1.96	18,831	2,653	2.08	20,144	2,680	2.20	21,896	2,707	2.37	23,210	2,734	2.49	24,305	2,761	2.58

1G24ED2BEA & US24MB2BEA (Heating)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB(°C DB)																	
	60(15.6)			65(18.3)			70(21.1)			75(23.9)			80(26.7)			86(30.0)		
	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 (-26.1°C)	13,324	2,250	1.74	13,130	2,348	1.64	12,936	2,472	1.53	12,677	2,571	1.45	12,419	2,670	1.36	12,160	2,818	1.26
-4°F (-20°C)	16,315	2,531	1.89	16,078	2,642	1.78	15,840	2,719	1.71	15,523	2,892	1.57	15,206	3,003	1.48	14,890	3,170	1.38
0°F (-17.8°C)	19,034	2,718	2.05	18,757	2,838	1.94	18,480	2,925	1.85	18,110	3,106	1.71	17,741	3,226	1.61	17,371	3,405	1.50
5°F (-15°C)	23,009	3,524	1.91	22,673	3,679	1.81	23,353	3,811	1.80	21,892	4,028	1.59	21,445	4,183	1.50	20,998	4,415	1.39
14°F (-10°C)	21,754	2,662	2.40	21,437	2,779	2.26	21,120	2,719	2.28	20,698	3,042	1.99	20,275	3,159	1.88	19,853	3,335	1.74
23°F (-5°C)	23,113	2,062	3.29	22,777	2,153	3.10	22,440	2,266	2.90	21,991	2,357	2.73	21,542	2,447	2.58	21,094	2,583	2.39
32°F (0°C)	25,832	2,156	3.51	25,456	2,251	3.32	25,080	2,369	3.10	24,578	2,464	2.92	24,077	2,559	2.76	23,575	2,701	2.56
41°F (5°C)	28,552	2,287	3.66	28,136	2,388	3.45	27,720	2,513	3.23	27,166	2,614	3.05	26,611	2,714	2.87	26,057	2,865	2.67
47°F (8.3°C)	27,192	1,875	4.25	26,796	1,957	4.01	26,000	2,060	3.70	25,872	2,142	3.54	25,344	2,225	3.34	24,816	2,348	3.10
55°F (12.8°C)	28,552	1,818	4.60	28,136	1,898	4.34	27,720	1,998	4.07	27,166	2,078	3.83	26,611	2,158	3.61	26,057	2,278	3.35
65°F (18.3°C)	31,271	1,968	4.66	30,815	2,055	4.40	30,360	2,163	4.11	29,753	2,250	3.88	29,146	2,336	3.66	28,538	2,466	3.39
75°F (23.9°C)	33,990	2,118	4.70	33,495	2,211	4.44	33,000	2,328	4.15	32,340	2,421	3.92	31,680	2,514	3.69	31,020	2,654	3.43
86°F (30°C)	36,709	2,287	4.70	36,175	2,388	4.44	35,640	2,513	4.16	34,927	2,614	3.92	34,214	2,714	3.69	33,502	2,865	3.43

2. SYSTEM

1G24ED2BEA & GS24WP2BEA (Cooling)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																				
	64/53			68/57			72/61			77/64			80/67			82/70			86/72		
	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
23°F (-5°C)	8,553	1,726	4.95	8,924	1,663	5.37	9,310	1,602	5.81	9,713	1,544	6.29	10,134	1,487	6.81	10,572	1,433	7.38	11,030	1,380	7.99
32°F (0°C)	11,119	1,899	5.86	11,601	1,830	6.34	12,103	1,763	6.87	12,627	1,698	7.44	13,174	1,636	8.05	13,744	1,576	8.72	14,339	1,518	9.44
50°F (10°C)	14,455	2,070	6.98	15,081	1,994	7.56	15,734	1,921	8.19	16,415	1,851	8.87	17,126	1,783	9.60	17,867	1,718	10.40	18,641	1,655	11.26
68°F (20°C)	18,791	2,236	8.41	19,605	2,154	9.10	20,454	2,075	9.86	21,340	1,999	10.68	22,263	1,926	11.56	23,227	1,855	12.52	24,233	1,787	13.56
86°F (30°C)	20,671	2,392	8.64	21,566	2,305	9.36	22,499	2,220	10.13	23,473	2,139	10.97	24,490	2,061	11.88	25,550	1,985	12.87	26,656	1,912	13.94
95°F (35°C)	20,257	2,488	8.14	21,134	2,397	8.82	22,049	2,309	9.55	23,004	2,224	10.34	24,000	2,143	11.20	25,039	2,065	12.13	26,123	1,989	13.13
104°F (40°C)	19,852	2,587	7.67	20,712	2,493	8.31	21,608	2,401	9.00	22,544	2,313	9.74	23,520	2,229	10.55	24,538	2,147	11.43	25,601	2,069	12.38
110°F (43°C)	19,654	2,639	7.45	20,504	2,542	8.06	21,392	2,449	8.73	22,318	2,360	9.46	23,285	2,273	10.24	24,293	2,190	11.09	25,345	2,110	12.01
115°F (46°C)	19,457	2,718	7.16	20,299	2,619	7.75	21,178	2,523	8.39	22,095	2,430	9.09	23,052	2,341	9.84	24,050	2,256	10.66	25,091	2,173	11.55

1G24ED2BEA & GS24WP2BEA (Heating)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB/°F WB																				
	60			64			68			70			72			75			79		
	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
-31°F (-35°C)	9,951	1,962	1.49	9,354	2,002	1.37	9,073	2,042	1.30	8,800	2,084	1.24	8,535	2,127	1.18	8,279	2,170	1.12	7,782	2,214	1.03
-22°F (-30°C)	12,439	2,308	1.58	11,693	2,355	1.46	11,341	2,403	1.38	11,000	2,452	1.31	10,669	2,502	1.25	10,348	2,553	1.19	9,728	2,605	1.09
-15°F (-26°C)	18,146	3,077	1.73	17,058	3,140	1.59	16,545	3,204	1.51	16,048	3,269	1.44	15,565	3,336	1.37	15,097	3,404	1.30	14,192	3,473	1.20
-5°F (-21°C)	20,560	3,172	1.90	19,327	3,237	1.75	18,746	3,303	1.66	18,182	3,370	1.58	17,635	3,439	1.50	17,105	3,509	1.43	16,079	3,581	1.32
0°F (-18°C)	22,616	3,270	2.03	21,259	3,337	1.87	20,620	3,405	1.77	20,000	3,475	1.69	19,399	3,545	1.60	18,816	3,618	1.52	17,687	3,692	1.40
5°F (-15°C)	24,877	3,371	2.16	23,385	3,440	1.99	22,682	3,510	1.89	22,000	3,582	1.80	21,339	3,655	1.71	20,697	3,730	1.63	19,456	3,806	1.50
14°F (-10°C)	25,126	2,966	2.48	23,619	3,027	2.29	22,909	3,089	2.17	22,220	3,152	2.07	21,552	3,216	1.96	20,904	3,282	1.87	19,650	3,349	1.72
23°F (-5°C)	25,377	2,610	2.85	23,855	2,663	2.63	23,138	2,718	2.50	22,442	2,773	2.37	21,767	2,830	2.25	21,113	2,888	2.14	19,847	2,947	1.97
32°F (0°C)	25,631	2,297	3.27	24,094	2,344	3.01	23,369	2,391	2.86	22,667	2,440	2.72	21,985	2,490	2.59	21,324	2,541	2.46	20,045	2,593	2.27
41°F (5°C)	25,887	2,321	3.27	24,335	2,368	3.01	23,603	2,417	2.86	22,893	2,466	2.72	22,205	2,516	2.59	21,537	2,568	2.46	20,246	2,620	2.26
47°F (8°C)	27,139	1,839	4.32	25,511	1,877	3.98	24,744	1,915	3.79	24,000	1,954	3.60	23,278	1,994	3.42	22,578	2,035	3.25	21,224	2,076	3.00
55°F (13°C)	27,681	1,848	4.39	26,021	1,886	4.04	25,239	1,925	3.84	24,480	1,964	3.65	23,744	2,004	3.47	23,030	2,045	3.30	21,649	2,087	3.04
65°F (18°C)	28,235	1,858	4.45	26,541	1,896	4.10	25,743	1,934	3.90	24,969	1,974	3.71	24,218	2,014	3.52	23,490	2,055	3.35	22,081	2,097	3.09
75°F (24°C)	28,799	1,867	4.52	27,072	1,905	4.16	26,258	1,944	3.96	25,468	1,984	3.76	24,703	2,024	3.58	23,960	2,065	3.40	22,523	2,108	3.13

1G3036ED2BEA & US30LB2BEA (Cooling)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB/°F WB(°C DB/°C WB)																				
	60/50 (15.6/10.0)			64/53 (17.8/11.7)			70/57 (21.1/13.9)			75/62 (23.9/16.7)			80/67 (26.7/19.4)			86/72 (30.0/22.2)			90/75 (32.2/23.9)		
	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
23°F (-5°C)	20,976	1,180	5.21	22,080	1,192	5.43	23,736	1,204	5.78	25,392	1,217	6.12	27,600	1,229	6.58	29,256	1,241	6.91	30,636	1,253	7.16
32°F (0°C)	22,344	1,524	4.30	23,520	1,540	4.48	25,284	1,555	4.76	27,048	1,571	5.04	29,400	1,587	5.43	31,164	1,603	5.70	32,634	1,619	5.91
50°F (10°C)	23,256	1,745	3.91	24,480	1,763	4.07	26,316	1,781	4.33	28,152	1,799	4.59	30,600	1,818	4.93	32,436	1,836	5.18	33,966	1,854	5.37
68°F (20°C)	26,220	2,089	3.68	27,600	2,111	3.83	29,670	2,132	4.08	31,740	2,154	4.32	34,500	2,176	4.65	36,570	2,198	4.88	38,295	2,220	5.06
86°F (30°C)	25,764	2,556	2.95	27,120	2,583	3.08	29,154	2,609	3.27	31,188	2,636	3.47	33,900	2,662	3.73	35,934	2,689	3.92	37,629	2,716	4.06
95°F (35°C)	22,800	2,458	2.72	24,000	2,483	2.83	25,800	2,509	3.01	27,600	2,534	3.19	30,000	2,565	3.43	31,800	2,586	3.60	33,300	2,611	3.74
104°F (40°C)	22,344	2,826	2.32	23,520	2,856	2.41	25,284	2,885	2.57	27,048	2,915	2.72	29,400	2,944	2.93	31,164	2,973	3.07	32,634	3,003	3.19
110°F (43°C)	21,660	2,998	2.12	22,800	3,030	2.21	24,510	3,061	2.35	26,220	3,092	2.49	28,500	3,123	2.67	30,210	3,154	2.81	31,635	3,186	2.91
115°F (46°C)	20,976	3,146	1.95	22,080	3,178	2.04	23,736	3,211	2.17	25,392	3,244	2.29	27,600	3,277	2.47	29,256	3,310	2.59	30,636	3,342	2.69

1G3036ED2BEA & US30LB2BEA (Heating)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB(°C DB)																	
	60(15.6)			65(18.3)			70(21.1)			75(23.9)			80(26.7)			86(30.0)		
	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 (-26.1°C)	16,403	2,768	1.74	16,164	2,890	1.64	15,925	3,042	1.53	15,607	3,164	1.45	15,288	3,285	1.36	14,970	3,468	1.27
-4°F (-20°C)	20,085	3,114	1.89	19,793	3,251	1.78	19,500	3,346	1.71	19,110	3,559	1.57	18,720	3,696	1.48	18,330	3,901	1.38
0°F (-17.8°C)	23,433	3,345	2.05	23,091	3,492	1.94	22,750	3,600	1.85	22,295	3,823	1.71	21,840	3,970	1.61	21,385	4,190	1.50
5°F (-15°C)	28,325	4,337	1.91	27,912	4,528	1.81	27,000	4,386	1.80	26,950	4,956	1.59	26,400	5,147	1.50	25,850	5,433	1.39
14°F (-10°C)	26,780	3,276	2.40	26,390	3,420	2.26	26,000	3,346	2.28	25,480	3,744	1.99	24,960	3,888	1.88	24,440	4,104	1.75
23°F (-5°C)	28,454	2,538	3.29	28,039	2,649	3.10	27,625	2,789	2.90	27,073	2,900	2.74	26,520	3,012	2.58	25,968	3,179	2.39
32°F (0°C)	31,801	2,653	3.51	31,338	2,769	3.32	30,875	2,915	3.10	30,258	3,032	2.92	29,640	3,148	2.76	29,023	3,323	2.56
41°F (5°C)	35,149	2,814	3.66	34,637	2,938	3.46	34,125	3,093	3.23	33,443	3,216	3.05	32,760	3,340	2.87	32,078	3,526	2.67
47°F (8.3°C)	33,280	2,307	4.23	32,640	2,408	3.97	32,000	2,535	3.70	31,520	2,636	3.50	31,040	2,738	3.32	30,400	2,890	3.08
55°F (12.8°C)	35,149	2,238	4.60	34,637	2,336	4.35	34,125	2,459	4.07	33,443	2,557	3.83	32,760	2,656	3.62	32,078	2,803	3.35
65°F (18.3°C)	38,496	2,422	4.66	37,936	2,529	4.40	37,375	2,662	4.12	36,628	2,768	3.88	35,880	2,875	3.66	35,133	3,034	3.39
75°F (23.9°C)	41,844	2,607	4.70	41,234	2,721	4.44	40,625	2,865	4.16	39,813	2,979	3.92	39,000	3,094	3.69	38,188	3,266	3.43
86°F (30°C)	45,191	2,814	4.71	44,533	2,938	4.44	43,875	3,093	4.16	42,998	3,216	3.92	42,120	3,340	3.70	41,243	3,526	3.43

2. SYSTEM

1G3036ED2BEA & US30MB2BEA (Cooling)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB/°F WB(°C DB/°C WB)																				
	60/50 (15.6/10.0)			64/53 (17.8/11.7)			70/57 (21.1/13.9)			75/62 (23.9/16.7)			80/67 (26.7/19.4)			86/72 (30.0/22.2)			90/75 (32.2/23.9)		
	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
23°F (-5°C)	20,766	1,299	4.68	21,859	1,313	4.88	23,499	1,327	5.19	25,138	1,340	5.50	27,324	1,354	5.92	28,963	1,367	6.21	30,330	1,381	6.44
32°F (0°C)	22,121	1,678	3.86	23,285	1,696	4.02	25,031	1,713	4.28	26,778	1,731	4.53	29,106	1,748	4.88	30,852	1,766	5.12	32,308	1,783	5.31
50°F (10°C)	23,023	1,922	3.51	24,235	1,942	3.66	26,053	1,962	3.89	27,870	1,982	4.12	30,294	2,002	4.43	32,112	2,022	4.65	33,626	2,042	4.83
68°F (20°C)	25,958	2,301	3.31	27,324	2,325	3.44	29,373	2,349	3.66	31,423	2,373	3.88	34,155	2,397	4.18	36,204	2,421	4.38	37,912	2,445	4.54
86°F (30°C)	25,506	2,815	2.66	26,849	2,845	2.77	28,862	2,874	2.94	30,876	2,903	3.12	33,561	2,933	3.35	35,575	2,962	3.52	37,253	2,991	3.65
95°F (35°C)	22,572	2,745	2.41	23,760	2,773	2.51	25,542	2,802	2.67	27,324	2,830	2.83	30,000	2,858	3.08	31,482	2,886	3.20	32,967	2,914	3.32
104°F (40°C)	22,121	3,113	2.08	23,285	3,146	2.17	25,031	3,178	2.31	26,778	3,211	2.44	29,106	3,243	2.63	30,852	3,275	2.76	32,308	3,308	2.86
110°F (43°C)	21,443	3,303	1.90	22,572	3,337	1.98	24,265	3,372	2.11	25,958	3,406	2.23	28,215	3,440	2.40	29,908	3,475	2.52	31,319	3,509	2.62
115°F (46°C)	20,766	3,465	1.76	21,859	3,501	1.83	23,499	3,537	1.95	25,138	3,574	2.06	27,324	3,610	2.22	28,963	3,646	2.33	30,330	3,682	2.41

1G3036ED2BEA & US30MB2BEA (Heating)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB(°C DB)											
	60(15.6)			65(18.3)			70(21.1)			75(23.9)		
	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 (-26.1°C)	16,150	2,768	1.71	15,915	2,890	1.61	15,680	3,042	1.51	15,366	3,164	1.42
-4°F (-20°C)	19,776	3,114	1.86	19,488	3,251	1.76	18,240	3,346	1.60	18,816	3,559	1.55
0°F (-17.8°C)	23,072	3,345	2.02	22,736	3,492	1.91	20,800	3,600	1.69	21,952	3,823	1.68
5°F (-15°C)	27,889	4,337	1.88	27,483	4,528	1.78	23,000	3,752	1.80	26,535	4,956	1.57
14°F (-10°C)	26,368	3,276	2.36	25,984	3,420	2.23	25,600	3,346	2.24	25,088	3,744	1.96
23°F (-5°C)	28,016	2,538	3.24	27,608	2,649	3.05	27,200	2,789	2.86	26,656	2,900	2.69
32°F (0°C)	31,312	2,653	3.46	30,856	2,769	3.27	30,400	2,915	3.06	29,792	3,032	2.88
41°F (5°C)	34,608	2,814	3.60	34,104	2,938	3.40	33,600	3,093	3.18	32,928	3,216	3.00
47°F (8.3°C)	32,960	2,307	4.19	32,480	2,408	3.95	32,000	2,535	3.70	31,360	2,636	3.49
55°F (12.8°C)	34,608	2,238	4.53	34,104	2,336	4.28	33,600	2,459	4.00	32,928	2,557	3.77
65°F (18.3°C)	37,904	2,422	4.59	37,352	2,529	4.33	36,800	2,662	4.05	36,064	2,768	3.82
75°F (23.9°C)	41,200	2,607	4.63	40,600	2,721	4.37	40,000	2,865	4.09	39,200	2,979	3.86
86°F (30°C)	44,496	2,814	4.63	43,848	2,938	4.37	43,200	3,093	4.09	42,336	3,216	3.86

1G3036ED2BEA & GS30WB2BEA (Cooling)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)											
	64/53			68/57			72/61			77/64		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
23°F (-5°C)	10,692	2,157	4.96	11,154	2,078	5.37	11,637	2,002	5.81	12,141	1,929	6.29
32°F (0°C)	13,899	2,373	5.86	14,501	2,286	6.34	15,129	2,203	6.87	15,784	2,122	7.44
50°F (10°C)	18,069	2,587	6.99	18,851	2,492	7.56	19,667	2,401	8.19	20,519	2,313	8.87
68°F (20°C)	23,489	2,794	8.41	24,506	2,691	9.11	25,567	2,593	9.86	26,674	2,498	10.68
86°F (30°C)	25,838	2,989	8.64	26,957	2,880	9.36	28,124	2,774	10.14	29,342	2,673	10.98
95°F (35°C)	25,322	3,109	8.14	26,418	2,995	8.82	27,562	2,885	9.55	28,755	2,780	10.34
104°F (40°C)	24,815	3,233	7.68	25,890	3,115	8.31	27,010	3,001	9.00	28,180	2,891	9.75
110°F (43°C)	24,567	3,298	7.45	25,631	3,177	8.07	26,740	3,061	8.74	27,898	2,949	9.46
115°F (46°C)	24,321	3,397	7.16	25,374	3,272	7.75	26,473	3,153	8.40	27,619	3,037	9.09

1G3036ED2BEA & GS30WB2BEA (Heating)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB/°F WB											
	60			64			68			70		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-31°F (-35°C)	11,670	2,300	1.49	10,970	2,347	1.37	10,640	2,395	1.30	10,320	2,444	1.24
-22°F (-30°C)	14,587	2,706	1.58	13,712	2,761	1.46	13,300	2,817	1.38	12,900	2,875	1.32
-15°F (-26°C)	21,281	3,608	1.73	20,004	3,681	1.59	19,403	3,757	1.51	18,819	3,833	1.44
-5°F (-21°C)	24,111	3,719	1.90	22,665	3,795	1.75	21,984	3,873	1.66	21,323	3,952	1.58
0°F (-18°C)	26,522	3,834	2.03	24,932	3,913	1.87	24,182	3,993	1.78	23,455	4,074	1.69
5°F (-15°C)	29,174	3,953	2.16	27,424	4,034	1.99	26,600	4,116	1.89	25,800	4,200	1.80
14°F (-10°C)	29,321	3,478	2.47	27,562	3,549	2.28	26,733	3,622	2.16	25,930	3,696	2.06
23°F (-5°C)	29,468	3,060	2.82	27,701	3,123	2.60	26,868	3,187	2.47	26,060	3,252	2.35
32°F (0°C)	29,616	2,693	3.22	27,840	2,748	2.97	27,003	2,804	2.82	26,191	2,861	2.68
41°F (5°C)	29,765	2,321	3.21	27,980	2,777	2.95	27,139	2,834	2.81	26,323	2,892	2.67
47°F (8°C)	35,054	2,375	4.33	32,952	2,423	3.99	31,961	2,473	3.79	31,000	2,523	3.60
55°F (13°C)	35,755	2,387	4.39	33,611	2,435	4.05	32,600	2,485	3.84	31,620	2,536	3.65
65°F (18°C)	36,470	2,399	4.46	34,282	2,448	4.11	33,252	2,497	3.90	32,252	2,548	3.71
75°F (24°C)	37,199	2,411	4.52	34,968	2,460	4.17	33,916	2,510	3.96	32,897	2,561	3.76

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2. SYSTEM

1G3036ED2BEA & US36LB2BEA (Cooling)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB/°F WB(°C DB/°C WB)																				
	60/50 (15.6/10.0)			64/53 (17.8/11.7)			70/57 (21.1/13.9)			75/62 (23.9/16.7)			80/67 (26.7/19.4)			86/72 (30.0/22.2)			90/75 (32.2/23.9)		
	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
23°F (-5°C)	25,171	1,650	4.47	26,496	1,667	4.66	28,483	1,684	4.96	30,470	1,701	5.25	33,120	1,718	5.65	35,107	1,736	5.93	36,763	1,753	6.15
32°F (0°C)	26,813	2,131	3.69	28,224	2,153	3.84	30,341	2,175	4.09	32,458	2,197	4.33	35,280	2,220	4.66	37,397	2,242	4.89	39,161	2,264	5.07
50°F (10°C)	27,907	2,440	3.35	29,376	2,466	3.49	31,579	2,491	3.72	33,782	2,516	3.93	36,720	2,542	4.23	38,923	2,567	4.44	40,759	2,593	4.61
68°F (20°C)	31,464	2,921	3.16	33,120	2,952	3.29	35,604	2,982	3.50	38,088	3,013	3.71	41,400	3,043	3.99	43,884	3,073	4.18	45,954	3,104	4.34
86°F (30°C)	30,917	3,574	2.54	32,544	3,612	2.64	34,985	3,649	2.81	37,426	3,686	2.98	40,680	3,723	3.20	43,121	3,760	3.36	45,155	3,798	3.48
95°F (35°C)	27,360	3,437	2.33	28,800	3,473	2.43	30,960	3,508	2.59	33,120	3,544	2.74	36,000	3,600	2.93	38,160	3,616	3.09	39,960	3,652	3.21
104°F (40°C)	26,813	3,952	1.99	28,224	3,993	2.07	30,341	4,035	2.20	32,458	4,076	2.33	35,280	4,117	2.51	37,397	4,158	2.64	39,161	4,199	2.73
110°F (43°C)	25,992	4,193	1.82	27,360	4,237	1.89	29,412	4,280	2.01	31,464	4,324	2.13	34,200	4,368	2.29	36,252	4,411	2.41	37,962	4,455	2.50
115°F (46°C)	25,171	4,399	1.68	26,496	4,445	1.75	28,483	4,491	1.86	30,470	4,537	1.97	33,120	4,582	2.12	35,107	4,628	2.22	36,763	4,674	2.31

1G3036ED2BEA & US36LB2BEA (Heating)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB(°C DB)																	
	60(15.6)			65(18.3)			70(21.1)			75(23.9)			80(26.7)			86(30.0)		
	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 (-26.1°C)	18,855	3,380	1.64	18,493	3,528	1.54	18,130	3,714	1.43	17,858	3,863	1.36	17,586	4,011	1.28	17,224	4,234	1.19
-4°F (-20°C)	23,088	3,802	1.78	22,644	3,969	1.67	22,200	4,085	1.59	21,867	4,345	1.47	21,534	4,513	1.40	21,090	4,763	1.30
0°F (-17.8°C)	26,936	4,084	1.93	26,418	4,263	1.82	25,900	4,395	1.73	25,512	4,667	1.60	25,123	4,847	1.52	24,605	5,116	1.41
5°F (-15°C)	32,560	5,295	1.80	31,934	5,528	1.69	29,600	4,828	1.80	30,838	6,051	1.49	30,368	6,284	1.42	29,742	6,633	1.31
14°F (-10°C)	30,784	3,999	2.26	30,192	4,175	2.12	29,000	3,869	2.20	29,156	4,571	1.87	28,712	4,746	1.77	28,120	5,010	1.64
23°F (-5°C)	32,708	3,098	3.09	32,079	3,234	2.91	31,450	3,559	2.59	30,978	3,541	2.56	30,507	3,677	2.43	29,878	3,881	2.26
32°F (0°C)	36,556	3,239	3.31	35,853	3,381	3.11	35,150	3,559	2.89	34,623	3,702	2.74	34,096	3,844	2.60	33,393	4,058	2.41
41°F (5°C)	40,404	3,436	3.45	39,627	3,587	3.24	38,850	3,776	3.02	38,267	3,927	2.86	37,685	4,078	2.71	36,908	4,305	2.51
47°F (8.3°C)	38,480	2,816	4.00	37,740	2,940	3.76	37,000	3,095	3.50	36,445	3,219	3.32	35,890	3,343	3.15	35,150	3,528	2.92
55°F (12.8°C)	40,404	2,732	4.33	39,627	2,852	4.07	38,850	3,002	3.79	38,267	3,122	3.59	37,685	3,242	3.41	36,908	3,422	3.16
65°F (18.3°C)	44,252	2,957	4.39	43,401	3,087	4.12	42,550	3,250	3.84	41,912	3,380	3.63	41,274	3,510	3.45	40,423	3,705	3.20
75°F (23.9°C)	48,100	3,183	4.43	47,175	3,322	4.16	46,250	3,497	3.88	45,556	3,637	3.67	44,863	3,777	3.48	43,938	3,987	3.23
86°F (30°C)	51,948	3,436	4.43	50,949	3,587	4.16	49,950	3,776	3.88	49,201	3,927	3.67	48,452	4,078	3.48	47,453	4,305	3.23

1G3036ED2BEA & US36MB2BEA (Cooling)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB/°F WB(°C DB/°C WB)																				
	60/50 (15.6/10.0)			64/53 (17.8/11.7)			70/57 (21.1/13.9)			75/62 (23.9/16.7)			80/67 (26.7/19.4)			86/72 (30.0/22.2)			90/75 (32.2/23.9)		
	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
23°F (-5°C)	24,892	1,691	4.31	26,202	1,709	4.49	28,167	1,726	4.78	30,132	1,744	5.06	32,752	1,762	5.45	34,717	1,779	5.72	36,355	1,797	5.93
32°F (0°C)	26,515	2,184	3.56	27,910	2,207	3.71	30,004	2,230	3.94	32,097	2,253	4.18	34,888	2,275	4.49	36,981	2,298	4.72	38,726	2,321	4.89
50°F (10°C)	27,597	2,501	3.23	29,050	2,528	3.37	31,228	2,554	3.58	33,407	2,580	3.80	36,312	2,606	4.08	38,491	2,632	4.29	40,306	2,658	4.44
68°F (20°C)	31,114	2,995	3.05	32,752	3,026	3.17	35,208	3,057	3.38	37,665	3,088	3.57	40,940	3,120	3.85	43,396	3,151	4.04	45,443	3,182	4.19
86°F (30°C)	30,573	3,664	2.45	32,182	3,702	2.55	34,596	3,740	2.71	37,010	3,779	2.87	40,228	3,817	3.09	42,642	3,855	3.24	44,653	3,893	3.36
95°F (35°C)	27,056	3,523	2.25	28,480	3,560	2.34	30,616	3,597	2.49	32,752	3,633	2.64	36,000	3,675	2.87	37,736	3,707	2.98	39,516	3,743	3.09
104°F (40°C)	26,515	4,052	1.92	27,910	4,094	2.00	30,004	4,136	2.13	32,097	4,178	2.25	34,888	4,221	2.42	36,981	4,263	2.54	38,726	4,305	2.64
110°F (43°C)	25,703	4,298	1.75	27,056	4,343	1.83	29,085	4,388	1.94	31,114	4,433	2.06	33,820	4,477	2.21	35,849	4,522	2.32	37,540	4,567	2.41
115°F (46°C)	24,892	4,510	1.62	26,202	4,557	1.69	28,167	4,604	1.79	30,132	4,651	1.90	32,752	4,698	2.04	34,717	4,745	2.14	36,355	4,792	2.22

1G3036ED2BEA & US36MB2BEA (Heating)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB(°C DB)																	
	60(15.6)			65(18.3)			70(21.1)			75(23.9)			80(26.7)			86(30.0)		
	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 (-26.1°C)	18,346	3,112	1.73	17,993	3,249	1.62	17,640	3,420	1.51	17,375	3,557	1.43	17,111	3,694	1.36	16,758	3,899	1.26
-4°F (-20°C)	22,464	3,501	1.88	22,032	3,655	1.77	21,600	3,762	1.68	21,276	4,001	1.56	20,952	4,155	1.48	20,520	4,386	1.37
0°F (-17.8°C)	26,208	3,761	2.04	25,704	3,926	1.92	25,200	4,047	1.82	24,822	4,298	1.69	24,444	4,463	1.61	23,940	4,711	1.49
5°F (-15°C)	31,680	4,876	1.90	31,071	5,090	1.79	26,000	4,475	1.70	30,004	5,572	1.58	29,548	5,787	1.50	28,938	6,108	1.39
14°F (-10°C)	29,952	3,683	2.38	29,376	3,845	2.24	28,216	3,563	2.32	28,368	4,209	1.98	27,936	4,371	1.87	27,360	4,614	1.74
23°F (-5°C)	31,824	2,853	3.27	31,212	2,978	3.07	30,600	3,278	2.74	30,141	3,260	2.71	29,682	3,386	2.57	29,070	3,574	2.38
32°F (0°C)	35,568	2,983	3.50	34,884	3,114	3.28	34,200	3,278	3.06	33,687	3,409	2.90	33,174	3,540	2.75	32,490	3,736	2.55
41°F (5°C)	39,312	3,164	3.64	38,556	3,303	3.42	37,800	3,477	3.19	37,233	3,616	3.02	36,666	3,755	2.86	35,910	3,964	2.66
47°F (8.3°C)	37,440	2,594	4.23	36,720	2,708	3.97	36,000	2,850	3.70	35,460	2,964	3.51	34,920	3,078	3.33	34,200	3,249	3.09
55°F (12.8°C)	39,312	2,516	4.58	38,556	2,626	4.30	37,800	2,765	4.01	37,233	2,875	3.80	36,666	2,986	3.60	35,910	3,152	3.34
65°F (18.3°C)	43,056	2,723	4.63	42,228	2,843	4.35	41,400	2,993	4.05	40,779	3,112	3.84	40,158	3,232	3.64	39,330	3,411	3.38
75°F (23.9°C)	46,800	2,931	4.68	45,900	3,059	4.40	45,000	3,221	4.10	44,325	3,349	3.88	43,650	3,478	3.68	42,750	3,671	3.41
86°F (30°C)	50,544	3,164	4.68	49,572	3,303	4.40	48,600	3,477	4.10	47,871	3,616	3.88	47,142	3,755	3.68	46,170	3,964	3.41

2. SYSTEM

1G3036ED2BEA & GS36WB2BEA (Cooling)

TC: Total Capacity PI: Power Input

Outdoor Air Temp DB	Indoor Temperature (°F, DB/WB)																				
	64/53			68/57			72/61			77/64			80/67			82/70			86/72		
	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
23°F (-5°C)	11,547	2,485	4.65	12,047	2,394	5.03	12,568	2,307	5.45	13,113	2,222	5.90	13,680	2,141	6.39	14,273	2,063	6.92	14,891	1,987	7.49
32°F (0°C)	15,011	2,734	5.49	15,661	2,634	5.95	16,339	2,537	6.44	17,046	2,444	6.97	17,784	2,355	7.55	18,554	2,269	8.18	19,358	2,186	8.86
50°F (10°C)	19,514	2,980	6.55	20,359	2,871	7.09	21,241	2,766	7.68	22,160	2,664	8.32	23,120	2,567	9.01	24,121	2,473	9.75	25,165	2,382	10.56
68°F (20°C)	25,368	3,218	7.88	26,467	3,100	8.54	27,613	2,987	9.24	28,808	2,878	10.01	30,056	2,772	10.84	31,357	2,671	11.74	32,715	2,573	12.71
86°F (30°C)	27,905	3,444	8.10	29,114	3,318	8.78	30,374	3,196	9.50	31,689	3,079	10.29	33,061	2,966	11.15	34,493	2,858	12.07	35,986	2,753	13.07
95°F (35°C)	27,347	3,581	7.64	28,531	3,450	8.27	29,767	3,324	8.96	31,055	3,202	9.70	32,400	3,085	10.50	33,803	2,972	11.37	35,266	2,863	12.32
104°F (40°C)	26,800	3,725	7.20	27,961	3,588	7.79	29,171	3,457	8.44	30,434	3,330	9.14	31,752	3,208	9.90	33,127	3,091	10.72	34,561	2,978	11.61
110°F (43°C)	26,532	3,799	6.98	27,681	3,660	7.56	28,880	3,526	8.19	30,130	3,397	8.87	31,434	3,273	9.61	32,795	3,153	10.40	34,215	3,037	11.26
115°F (46°C)	26,267	3,913	6.71	27,404	3,770	7.27	28,591	3,632	7.87	29,829	3,499	8.53	31,120	3,371	9.23	32,468	3,247	10.00	33,873	3,128	10.83

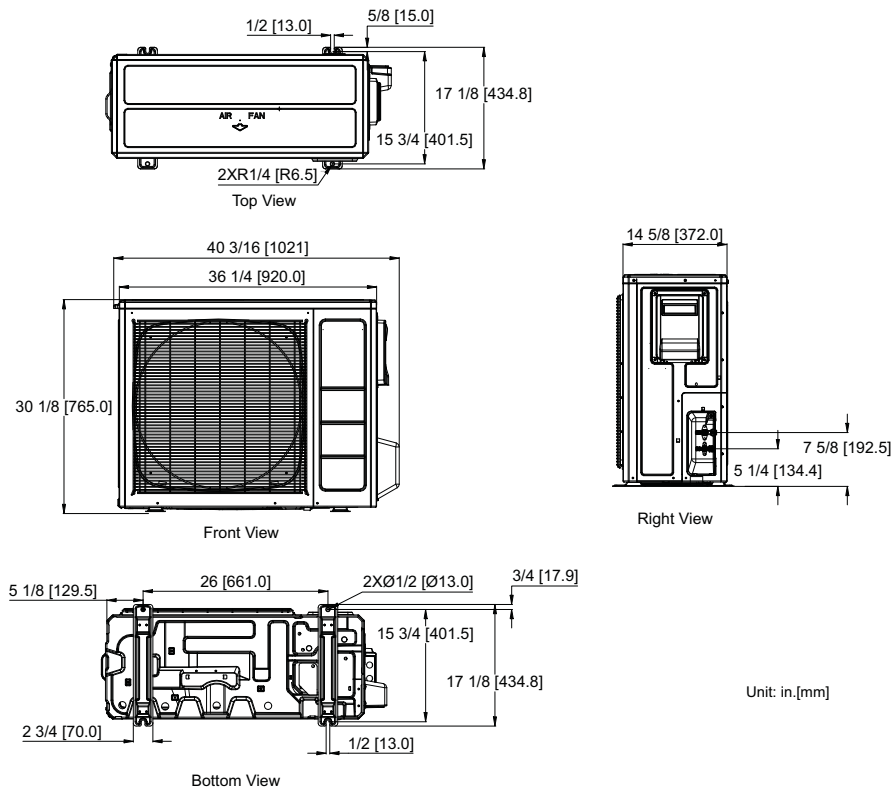
1G3036ED2BEA & GS36WB2BEA (Heating)

TC: Total Capacity PI: Power Input

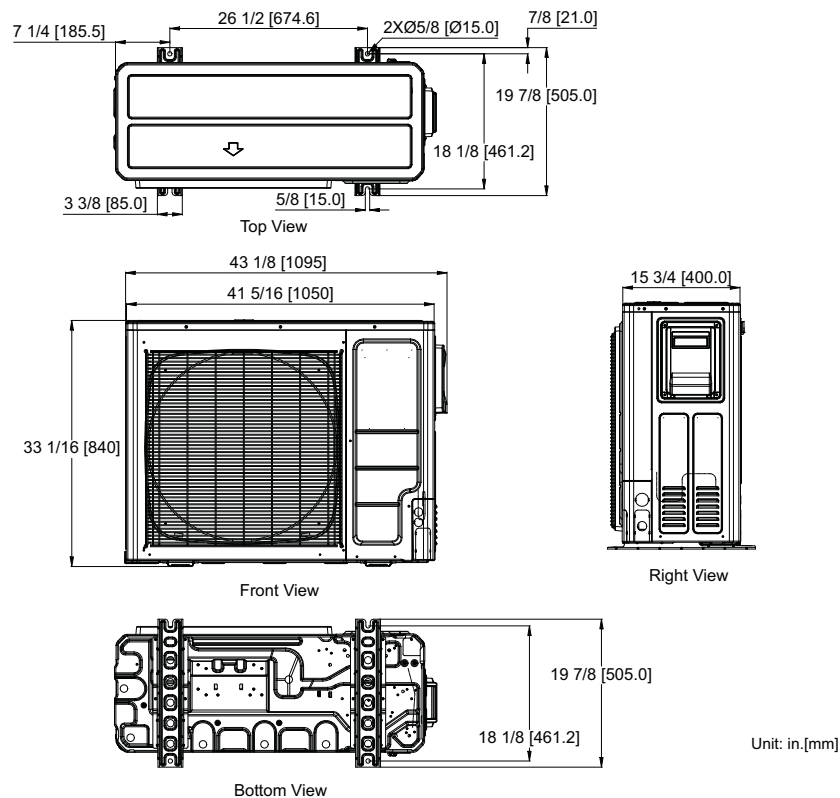
Outdoor Air Temp DB	Indoor Ambient Temperature: °F DB/°F WB																				
	60			64			68			70			72			75			79		
	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2	TC (Btu/h)	PI (W)	EER2
-31°F (-35°C)	11,851	2,336	1.49	11,140	2,384	1.37	10,805	2,432	1.30	10,480	2,482	1.24	10,165	2,533	1.18	9,859	2,584	1.12	9,268	2,637	1.03
-22°F (-30°C)	14,813	2,748	1.58	13,925	2,804	1.46	13,506	2,862	1.38	13,100	2,920	1.31	12,706	2,980	1.25	12,324	3,041	1.19	11,585	3,103	1.09
-15°F (-26°C)	21,611	3,664	1.73	20,314	3,739	1.59	19,704	3,816	1.51	19,111	3,893	1.44	18,537	3,973	1.37	17,979	4,054	1.30	16,901	4,137	1.20
-5°F (-21°C)	24,485	3,778	1.90	23,017	3,855	1.75	22,325	3,934	1.66	21,653	4,014	1.58	21,002	4,096	1.50	20,371	4,179	1.43	19,149	4,265	1.32
0°F (-18°C)	26,933	3,895	2.03	25,318	3,974	1.87	24,557	4,055	1.77	23,818	4,138	1.69	23,102	4,222	1.60	22,408	4,309	1.52	21,064	4,397	1.40
5°F (-15°C)	29,626	4,015	2.16	27,850	4,097	1.99	27,012	4,181	1.89	26,200	4,266	1.80	25,412	4,353	1.71	24,648	4,442	1.63	23,170	4,533	1.50
14°F (-10°C)	29,775	3,533	2.47	27,990	3,605	2.28	27,148	3,679	2.16	26,332	3,754	2.06	25,540	3,830	1.95	24,772	3,908	1.86	23,286	3,988	1.71
23°F (-5°C)	29,925	3,109	2.82	28,130	3,172	2.60	27,284	3,237	2.47	26,464	3,303	2.35	25,668	3,370	2.23	24,896	3,439	2.12	23,403	3,509	1.95
32°F (0°C)	30,075	2,735	3.22	28,272	2,791	2.97	27,421	2,848	2.82	26,597	2,906	2.68	25,797	2,965	2.55	25,022	3,026	2.42	23,521	3,088	2.23
41°F (5°C)	30,226	2,764	3.20	28,414	2,821	2.95	27,559	2,878	2.81	26,731	2,937	2.67	25,927	2,997	2.54	25,147	3,058	2.41	23,639	3,120	2.22
47°F (8°C)	41,839	3,402	3.60	39,330	3,472	3.32	38,147	3,543	3.16	37,000	3,615	3.00	35,887	3,689	2.85	34,808	3,764	2.71	32,721	3,841	2.50
55°F (13°C)	42,675	3,420	3.66	40,116	3,489	3.37	38,910	3,561	3.20	37,740	3,633	3.04	36,605	3,707	2.89	35,504	3,783	2.75	33,375	3,860	2.53
65°F (18°C)	43,528	3,437	3.71	40,918	3,507	3.42	39,688	3,578	3.25	38,494	3,651	3.09	37,337	3,726	2.94	36,214	3,802	2.79	34,042	3,880	2.57
75°F (24°C)	44,399	3,454	3.77	41,736	3,524	3.47	40,481	3,596	3.30	39,264	3,670	3.14	38,083	3,745	2.98	36,938	3,821	2.83	34,723	3,899	2.61

3.1 Dimensions

1G24ED2BEA

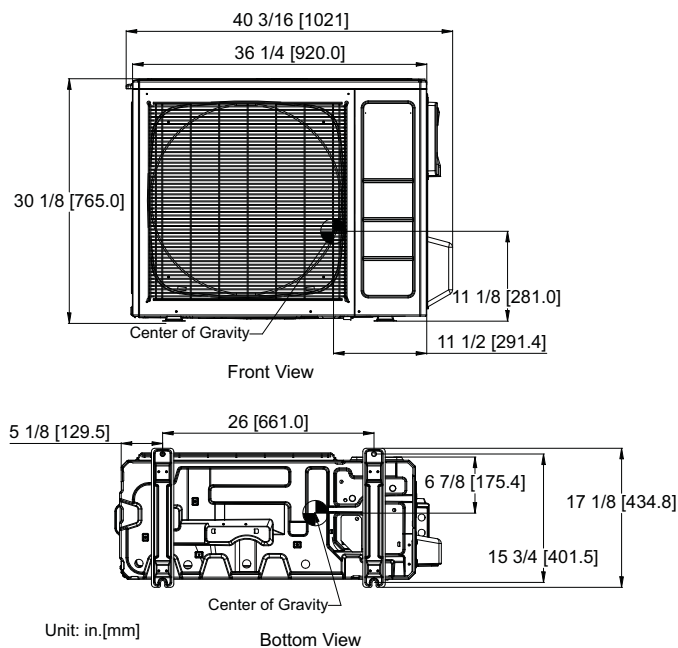


1G3036ED2BEA

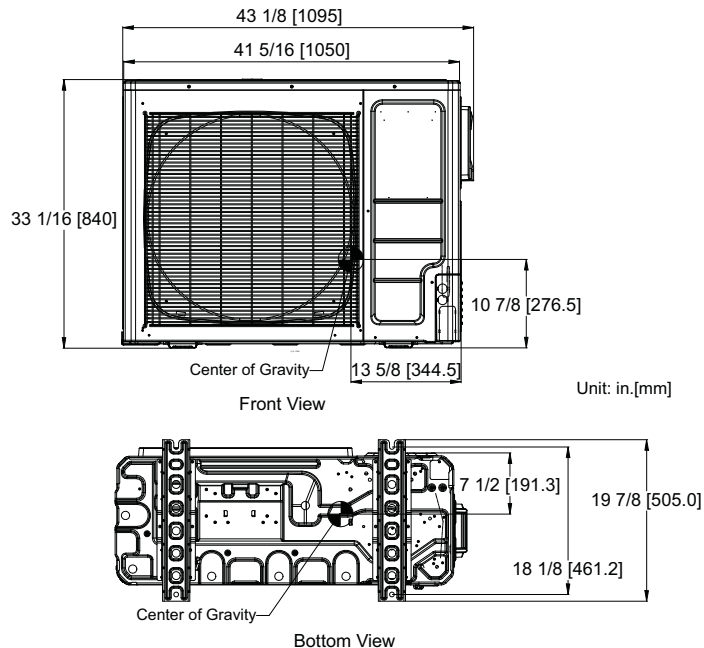


3.2 Center of Gravity

1G24ED2BEA



1G3036ED2BEA



3.3 General

(3.3.1) Outdoor Unit Description

- A. The outdoor unit shall be comprised of a condenser coil with all components and controls necessary to perform the rated operation.

(3.3.2) Sound Pressure Rating

- A. Sound pressure rating as measured according to test standard JIS C 961:

Model	Sound Pressure Rating dB(A)	Microphone Location (ft)
1G24ED2BEA	68	3.28
1G3036ED2BEA	72	3.28

(3.3.3) Warranty

- A. The outdoor unit shall be covered by a manufacturer's parts warranty.

3.4 Installation

(3.4.1) Condensate

- A. The installer must adhere to local building codes for managing condensate water produced by the outdoor unit.

(3.4.2) Clearances

- A. The installer must follow the recommended clearances provided in the Installation Manual.

3.5 Components

(3.5.1) Coil

- A. The outdoor coil shall be made with a blue colored hydrophilic coating on the aluminum fins and packed with internally grooved copper tubing, to increase the effective heat exchange surface area by 25%, resulting in higher efficiencies and shorter defrost cycles(approx. 29%).
- B. Coils shall be helium pressure tested at the factory within a range of 600 - 650 PSI.
- C. Outdoor unit shall be factory charged with R454B refrigerant for default feet of lineset.
- D. The coils have passed 500 hours salt spray test.

(3.5.2) Fan Motor

- A. The outdoor fan motor shall be a brushless, variable speed DCV motor type.
- B. The fan motor shall be molded with heat-hardened resin.
- C. The fan motor shall have permanently lubricated SRC bearings.

(3.5.3) Fan Blade

- A. The outdoor fan blade shall be a UL flame rated plastic-resin design.
- B. The fan blade shall be factory balanced in quiet performance and enhanced velocity.

(3.5.4) Compressor

- A. The compressor shall be a DC rotary type and A-PAM inverter-driven for stable operation in lower and higher frequency.
- B. The compressor shall be variable speed, variable capacity.
- C. The compressor shall have an internal overload protection device.
- D. The compressor shall use HAF68D1C (1G24ED2BEA) or RM68EH (1G3036ED2BEA) refrigerant oil for better anti-wear effectiveness, superior resistance to capillary tube blockage and no hydrolysis compared to POE oil.

(3.5.5) 4WV

- A. The outdoor unit shall contain a four-way reversing valve (4WV) to change system mode from cool to heat.

(3.5.6) EEV

- A. The refrigerant flow shall be regulated by an electronic expansion valve (EEV).
- B. The outdoor control shall monitor the refrigerant flow through the EEV using a pulse-operated coil.
- C. The EEV shall maintain the target of 10°F (5.5°C) of superheat.

(3.5.7) Base Pan

- A. TThe outdoor unit shall have a galvanized steel base pan.
- B. The base pan shall have multiple drain holes located under the coil and throughout the pan to provide efficient draining of defrost discharge and to prevent accumulation of damaging ice.

(3.5.8) Copper Piping

- A. All internally connected copper tubing shall conform to ASTM B280 tubing tolerances.

(3.5.9) Outdoor Enclosure Materials

- A. The outdoor cabinet shall be constructed of commercial grade DC51/DC52 hot-dip galvanized steel with coating.
Screw Size: #4 x 5/8in Phillips Pan Head Zinc Plated Sheet Metal Screw.

(3.5.10) Defrost

- A. The outdoor unit shall have a reverse-cycle (hot gas) defrost system to maximize heat pump operation and minimize energy consumption.

(3.5.11) Accumulator

- A. The accumulator shall be connected to the compressor return line to prevent liquid refrigerant from entering the compressor during operation.

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CIRCUIT DIAGRAM OF OUTDOOR UNIT

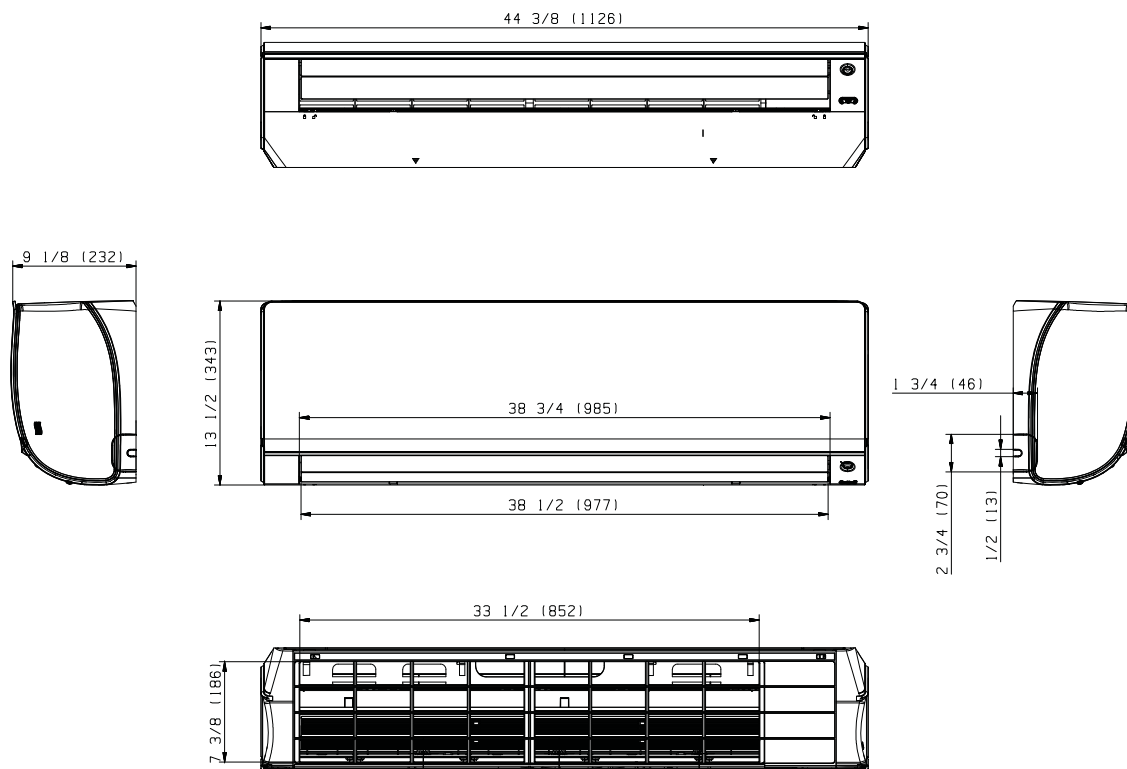
4WAY:4 Way valve
Tc:Condensing Temp.Sensor
Ts:Compressor Suction Temp.Sensor
Ta: Ambient Temp.Sensor
Td:Compressor Discharge Temp.Sensor
Te:Defrosting Temp.Sensor
HPS/LPS:High/Low Pressure Switch
B:black,BL:blue,GR:Gray,W:White,
R:red,Y/G:yellow/green,BR:Brown.

SW7	ALL OFF			SW6	ALL OFF			
CAPACITY (kW)	SW5-1	SW5-2	SW5-3	SW5-4	SW5-5	SW5-6	SW5-7	SW5-8
24	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
30/36	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF

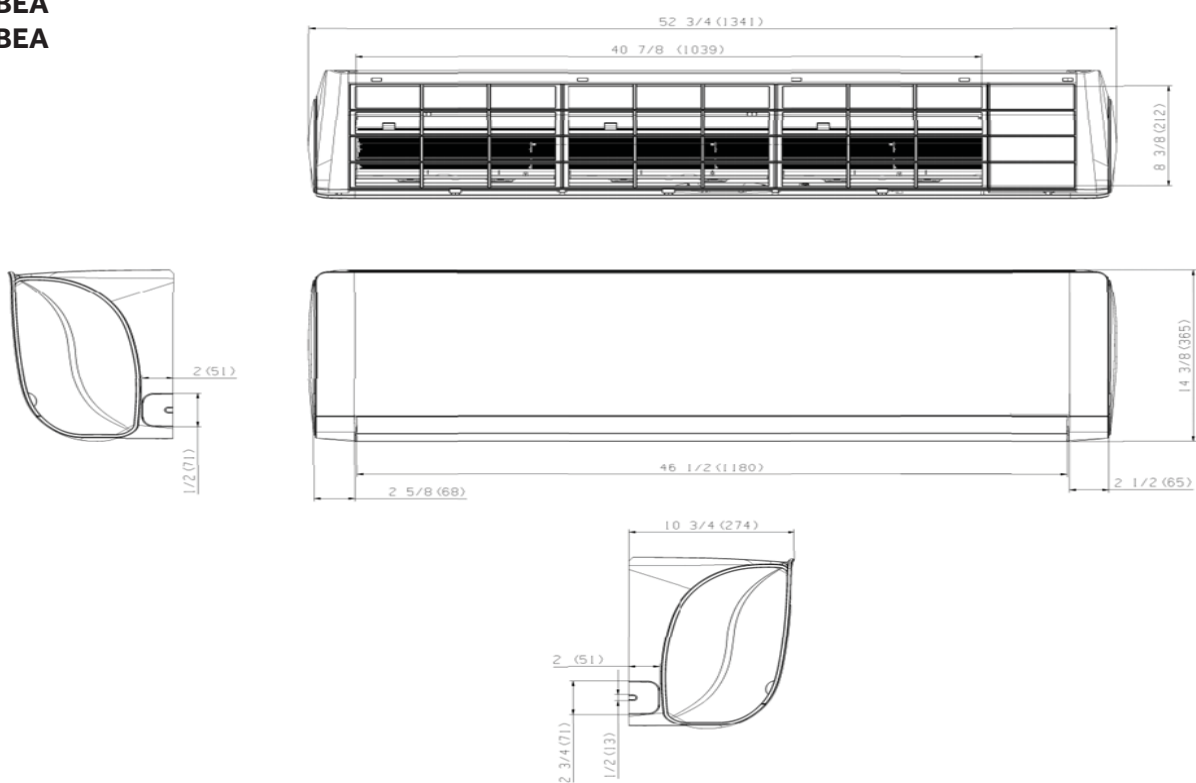
4. HIGHWALL INDOOR UNITS

4.1 Dimensions

GS24WP2BEA

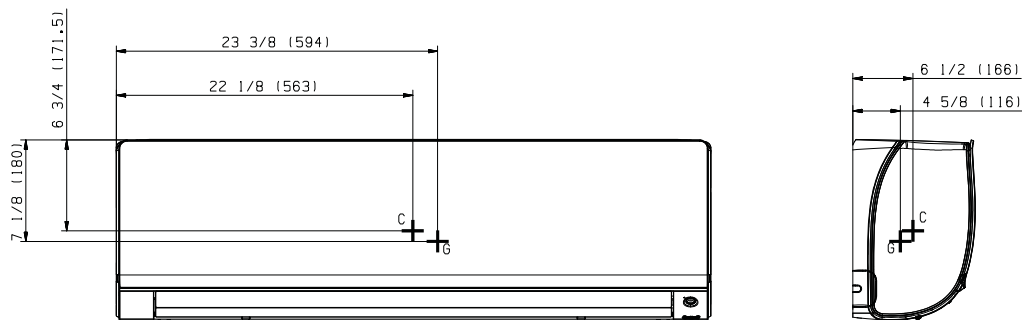


GS30WB2BEA GS36WB2BEA



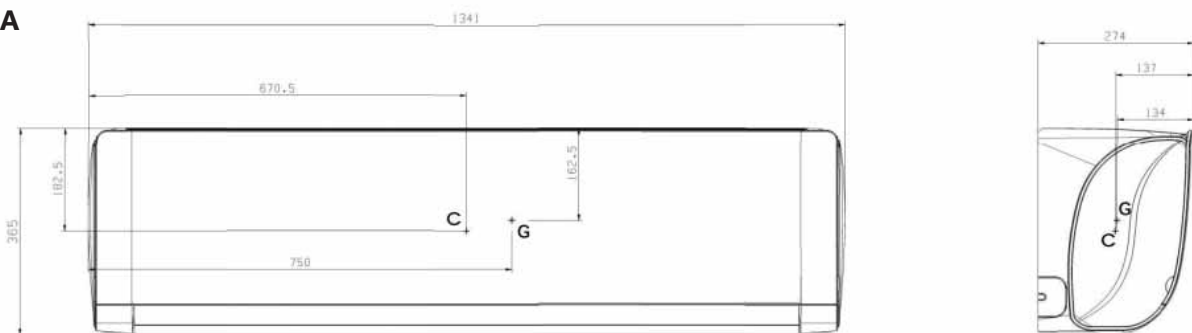
4.2 Center of Gravity

GS24WP2BEA



GS30WB2BEA

GS36WB2BEA



4.3 General

(4.3.1) Indoor Unit Description

- A. The wall mounted indoor section completes the system when connected to the matching outdoor unit and field-supplied piping and wiring.

(4.3.2) Sound Ratings

- A. Sound ratings as measured according to test standard JIS C 9612:

Model	Sound Pressure Level dB(A) (Turbo/High/Med/Low/Quiet)	Sound Power Level dB(A) (Turbo/High/Med/Low/Quiet)	Microphone Location
GS24WP2BEA	54/50/47/44/38	62/58/55/52/46	
GS30WB2BEA	55/53/49/44/40	63/61/57/52/48	
GS36WB2BEA	56/54/50/44/40	64/62/58/52/48	

4. HIGHWALL INDOOR UNITS

4.4 Installation

(4.4.1) Condensate

- A. The wall mounted indoor shall be shipped with a insulated polyethylene condensate tubing (5/8"ID) attached from the factory.
- B. The wall mounted indoor unit shall ship with a 65ft (2m) corrugated drain tube that connects to the insulated drain tube.
- C. The wall mounted indoor unit shall be a gravity drain.

(4.4.2) Clearances

- A. The installer must follow the minimum clearances illustrated in the Installation Manual when installing the indoor unit.

(4.4.3) Mounting

- A. The wall mounted indoor unit shall ship with a galvanized metal wall bracket.
- B. The wall bracket shall have multiple anchor points to provide the installer with many options to firmly attach the wall mounted indoor unit the wall.
- C. The field-supplied mounting hardware must be adequate to support the indoor unit.

4.5 Electrical Requirements

(4.5.1) Electrical Disconnect

- A. Connecting wire must be continuous (without break) unless local code requires a disconnect at the indoor unit.
- B. If a disconnect is required by local code, it must be a 3-pole, single-throw type.

Model	Fan Motor Power Output (W)
GS24WP2BEA GS30WB2BEA GS36WB2BEA	70

4.6 Components

(4.6.1) Coil

- A. The indoor coil shall be made with a blue colored hydrophobic coating on the aluminum fins and packed with internal grooved copper tubing, to increase the effective heat exchange surface area by 25%.
- B. Copper tubing shall have inner micro-grooves to increase effective heat transfer capabilities.
- C. Coils shall be pressure tested at 600-650 PSI using helium leak detection.
- D. The coil shall be charged with dry nitrogen for shipping at 70-100 PSI.

(4.6.2) Fan Motor

- A. The fan motor shall be a sealed DC multiple-speed resin-packed motor
- B. The fan motor shall have permanently lubricated bearings.

(4.6.3) Fan Blade

- A. The fan blade shall be a corrosion-resistant cross-flow blower.
- B. The fan shall be designed with optimized diameter and surface area to deliver quiet and even air flow.

(4.6.4) Copper Piping

- A. The coil shall be connected to a length of insulated annealed copper.
- B. The ends of the tubing shall have male flare connections.

(4.6.5) Air Louvers

- A. The supply air shall be distributed by horizontal non-motorized and vertical motorized louvers.
- B. Air Louvers shall provide wide angle of operation for both horizontal (120°) and vertical (90° from top to down) airflow movement to provide room comfort for each corner.

4. HIGHWALL INDOOR UNITS

(4.6.6) Display

- A. The wall mounted indoor unit shall have a 4.5 x 1.1-inch backlit temperature display capable of showing set or room temperatures.
- B. The display shall also have colored icons representing set mode.
- C. The display can be turned off from the wireless remote control.

(4.6.7) WiFi

- A. Wall mounted indoor units shall come equipped with WiFi capabilities.

(4.6.8) Filter

- A. The wall mounted indoor unit shall have removable air filters.
- B. The air filters shall be washable and reusable.

(4.6.9) Control

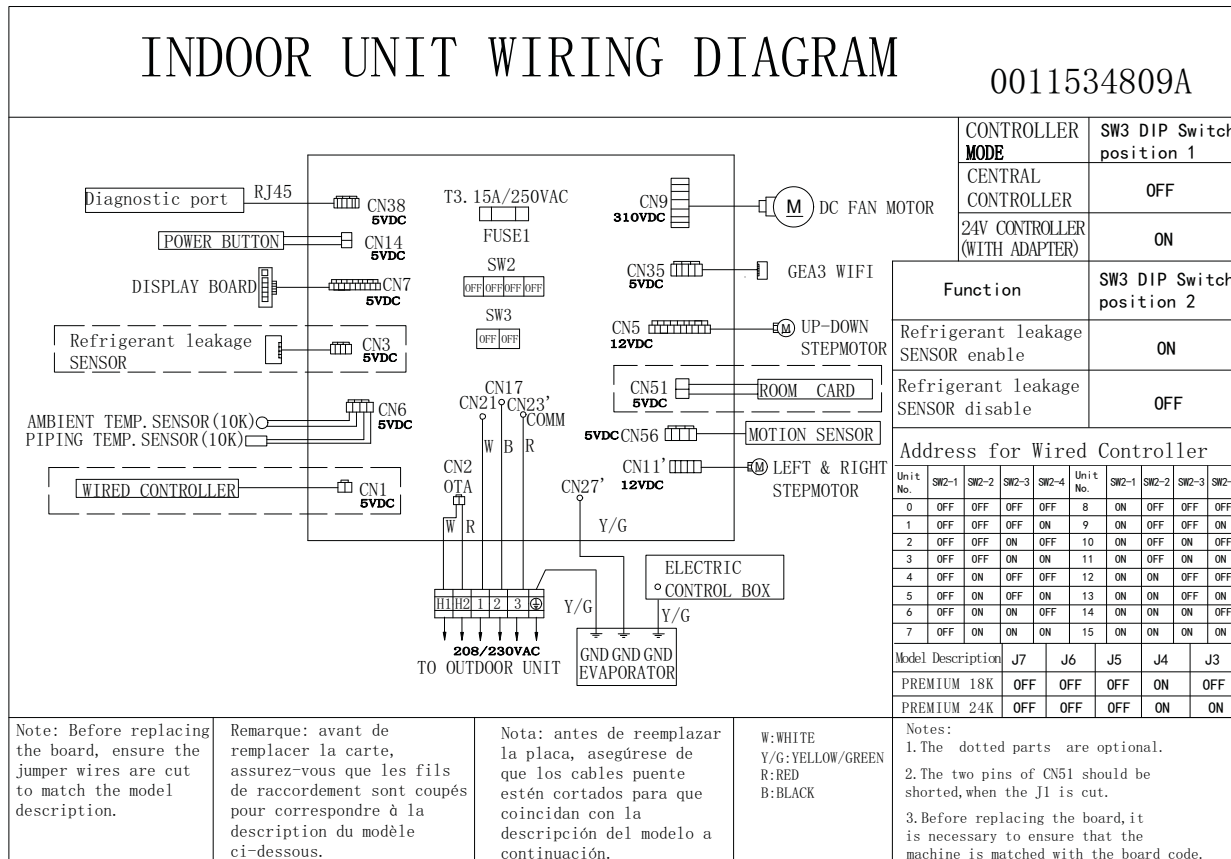
- A. The wall mounted indoor unit shall ship with the standard hand-held remote control.
- B. The wall mounted indoor unit shall be compatible with the simple wired controller and the programmable wired controller.

(4.6.10) Installation Clip

- A. The wall mounted indoor unit shall have a built-in clip that swings out and acts as a kick stand to allow for easier access to the rear of the unit during installation and repair.

4.7 Wiring Diagrams

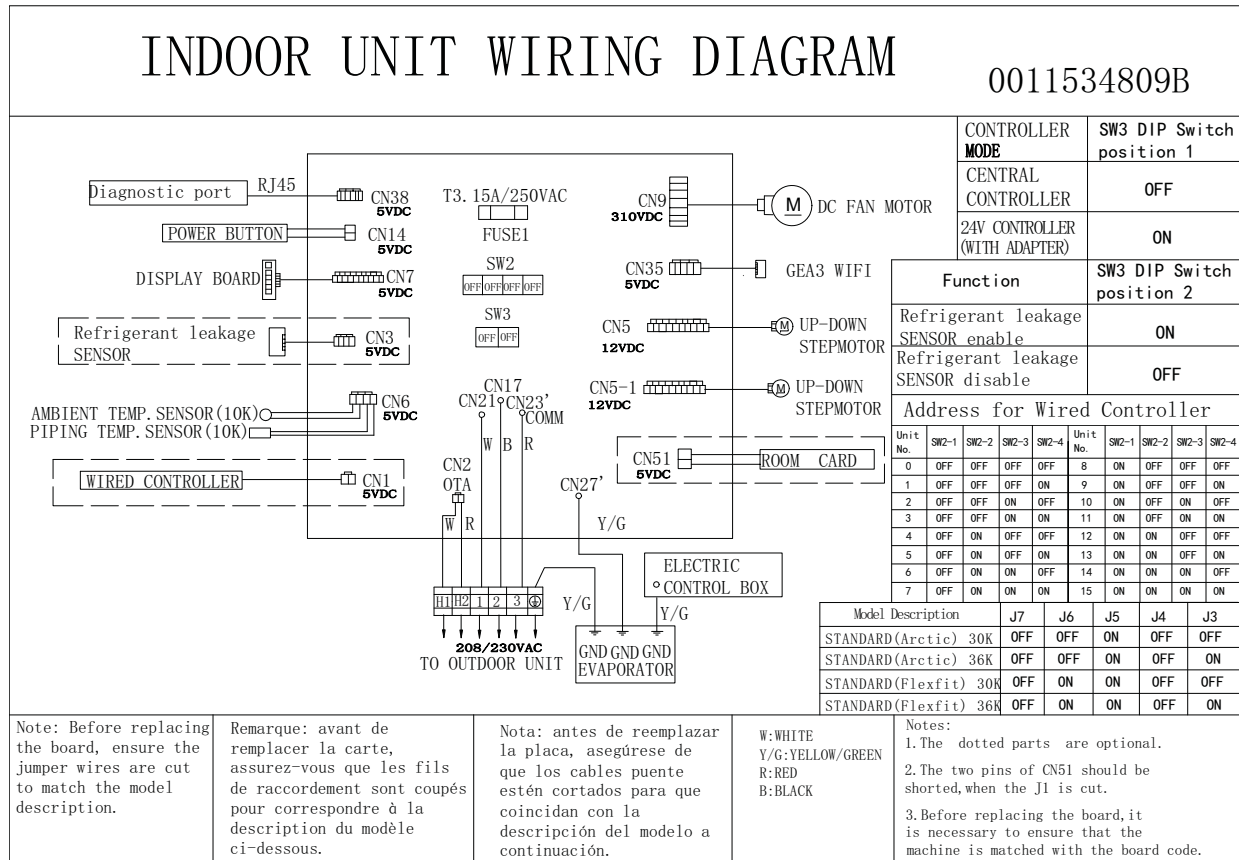
GS24WP2BEA



4. HIGHWALL INDOOR UNITS

GS30WB2BEA
GS36WB2BEA

ENGLISH

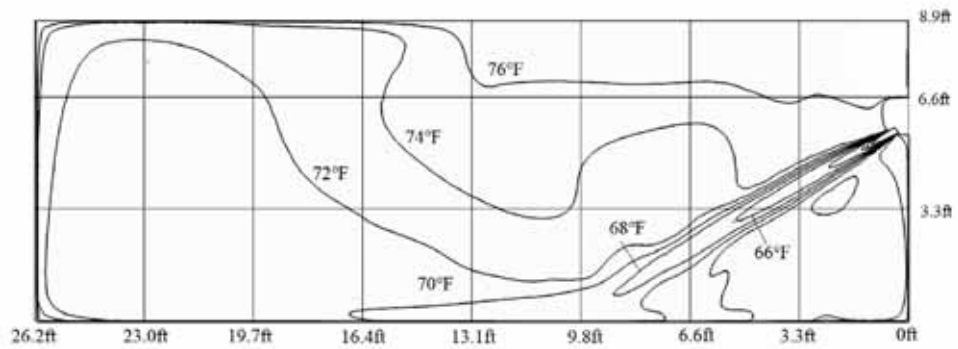
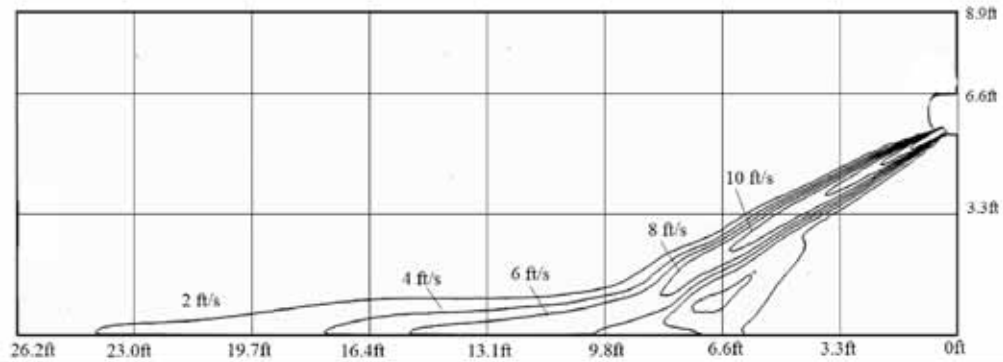


4. HIGHWALL INDOOR UNITS

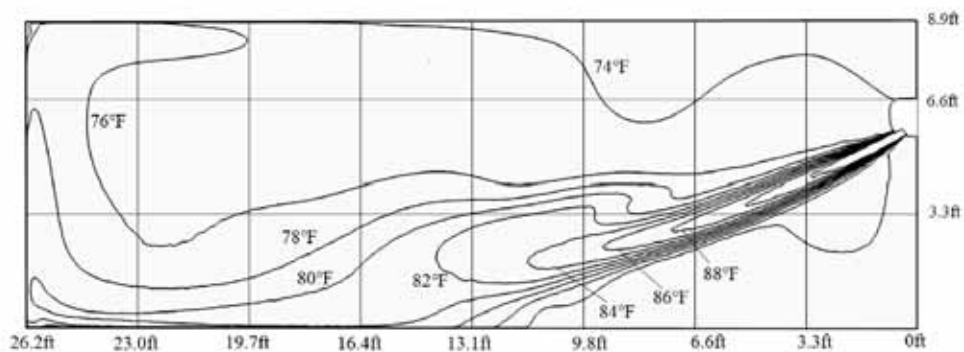
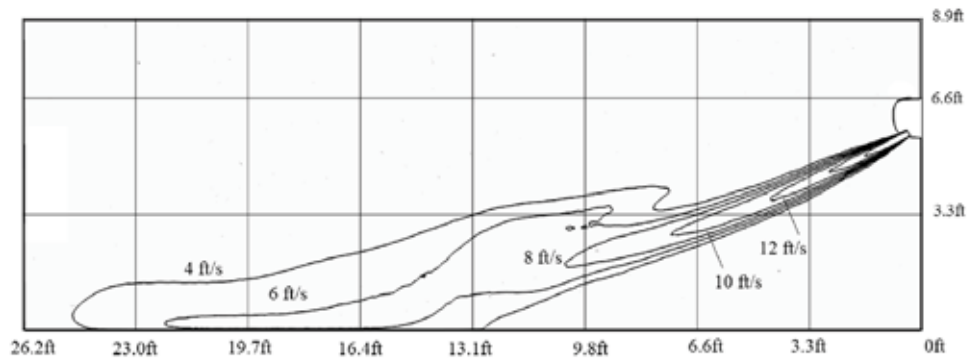
4.8 Air Velocity and Temperature Distribution

GS24WP2BEA

COOLING

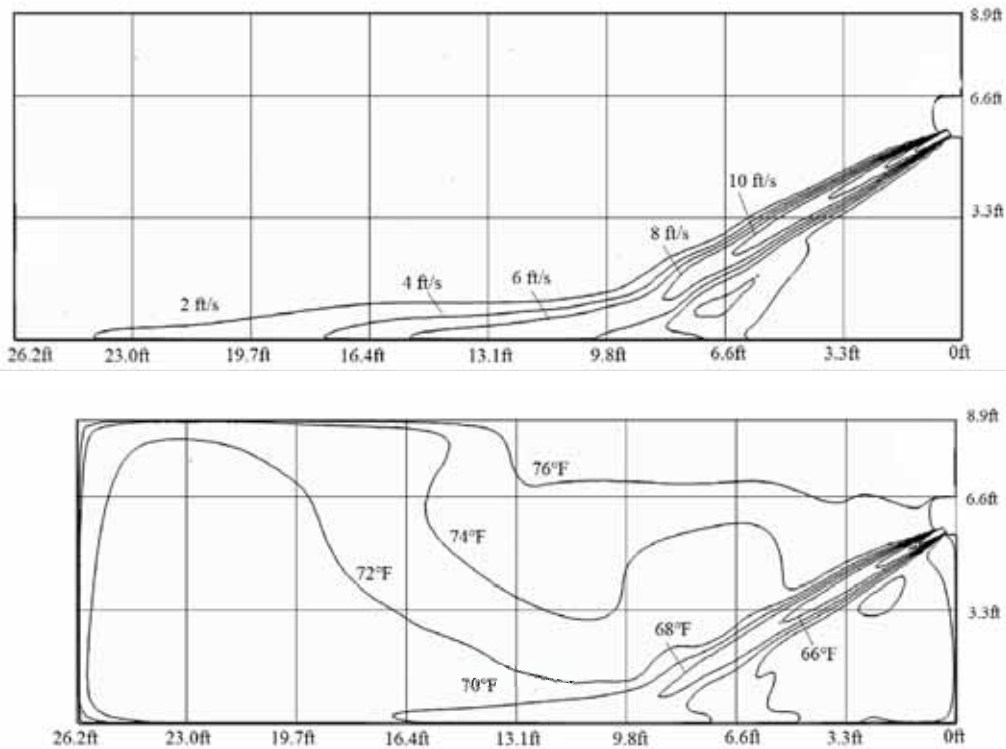


HEATING

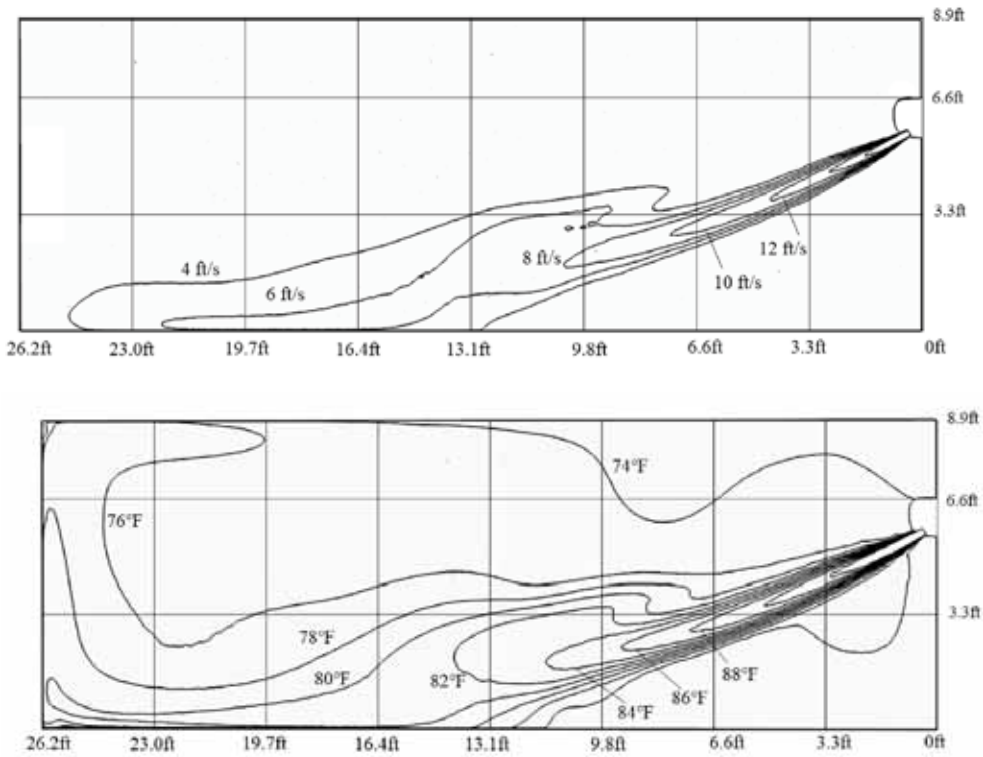


GS30WB2BEA
GS36WB2BEA

COOLING



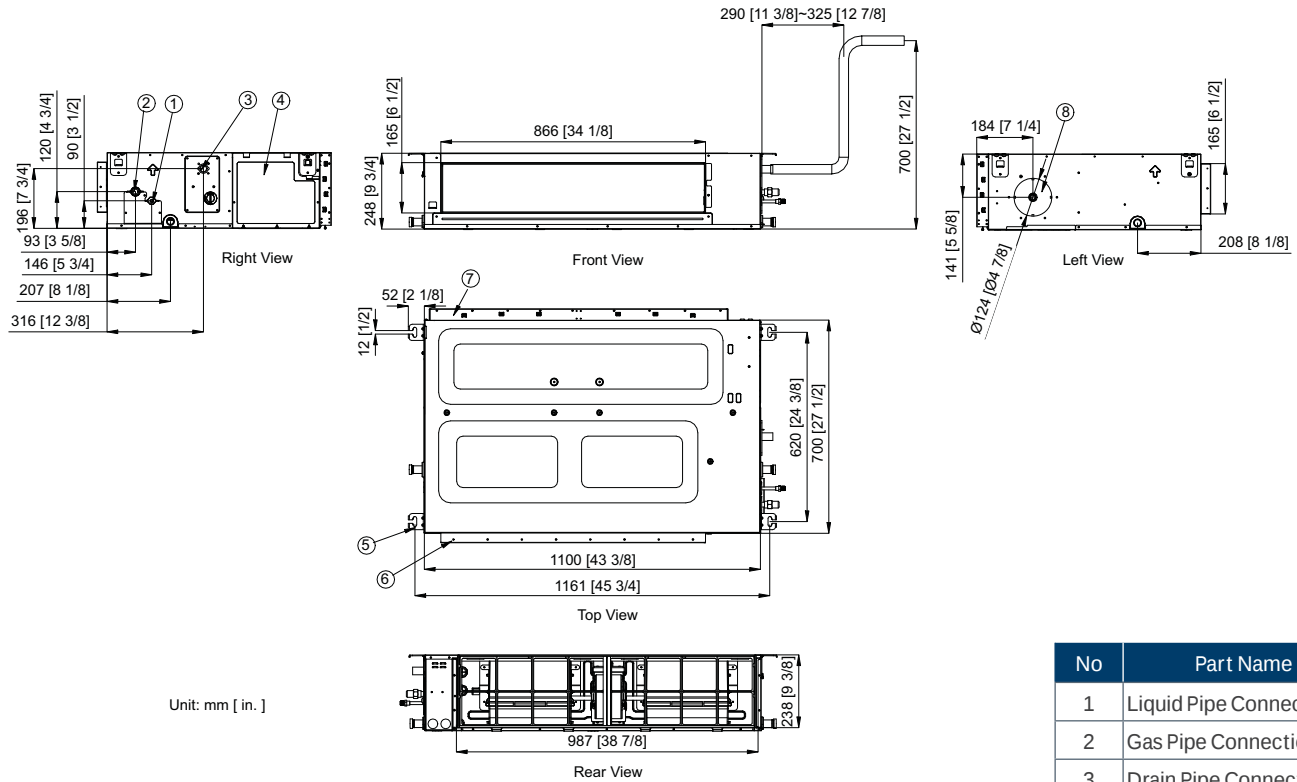
HEATING



5. DUCTED INDOOR UNITS

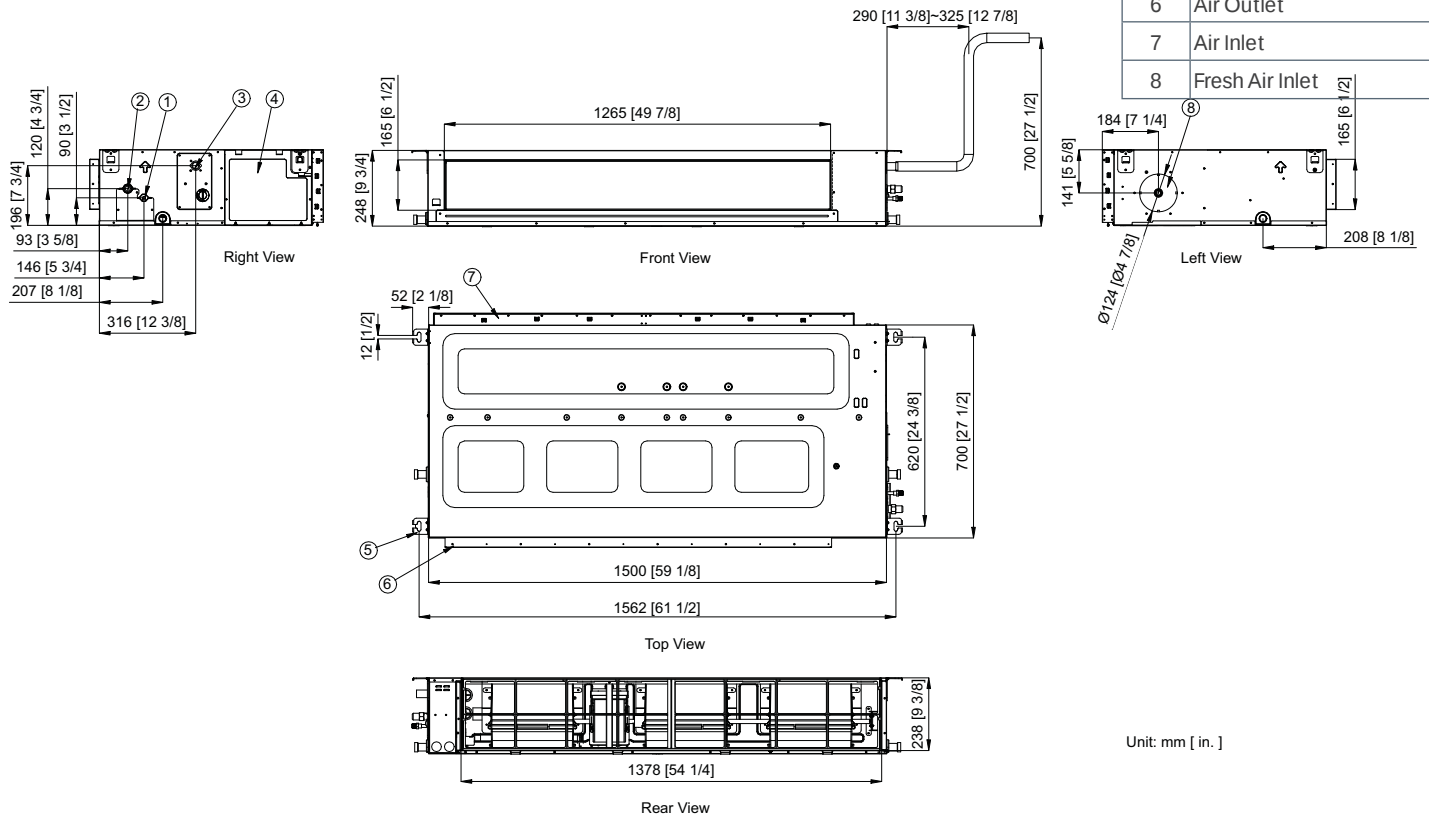
5.1 Dimensions

US24MB2BEA



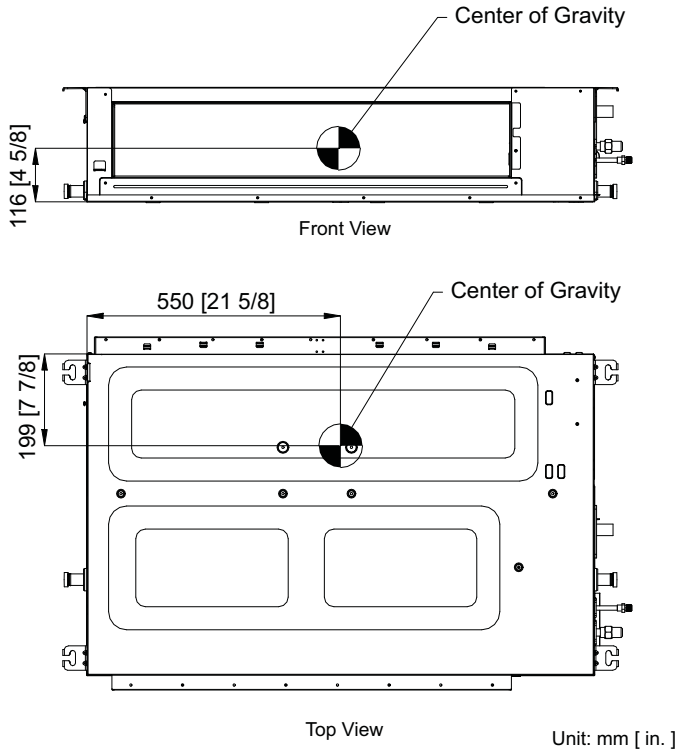
No	Part Name
1	Liquid Pipe Connection
2	Gas Pipe Connection
3	Drain Pipe Connection
4	Electrical Control Box
5	Suspension Hanger
6	Air Outlet
7	Air Inlet
8	Fresh Air Inlet

US30MB2BEA US36MB2BEA

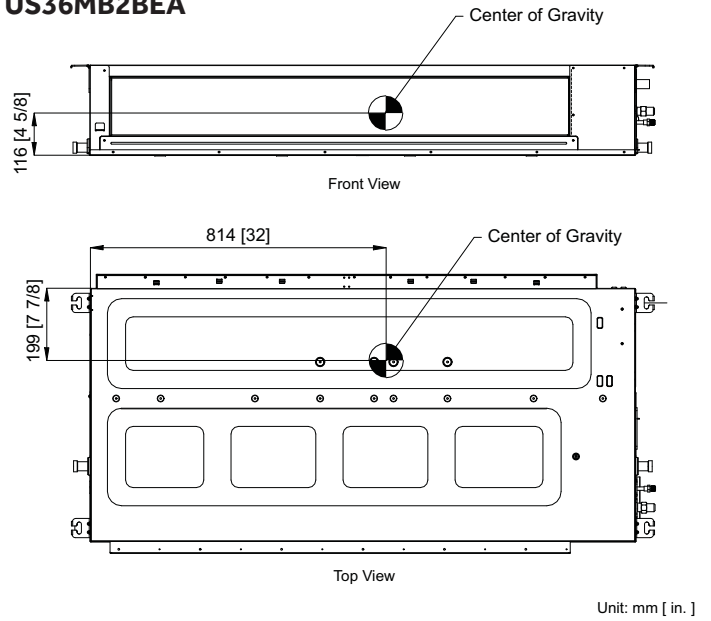


5.2 Center of Gravity

US24MB2BEA



US30MB2BEA US36MB2BEA



5.3 General

(5.3.1) Indoor Unit Description

- A. The ducted indoor unit completes the system when connected to the matching outdoor unit and field-supplied piping and wiring

(5.3.2) Sound Ratings

Model	Sound Pressure Level dB(A) (Turbo/High/Med/Low/Quiet)	Sound Power Level dB(A) (Turbo/High/Med/Low/Quiet)
US24MB2BEA	44/43/42/40/38	59/58/57/55/53
US30MB2BEA	46/45/41/38/36	61/60/56/59/51
US36MB2BEA	46/45/41/38/36	61/60/56/59/51

(5.3.3) Warranty

- A. The ducted indoor unit shall be covered by a manufacture parts warranty.

5.4 Installation

(5.4.1) Condensate

- A. The ducted indoor unit shall ship with an insulated drain tube adapter that is sized for 3/4-inch PVC on one end.
- B. The ducted indoor unit shall have a gravity drain port on one side of the unit.

(5.4.2) Clearances

- A. The installer must follow the minimum clearances illustrated in the installation manual when installing the indoor unit.

(5.4.3) Mounting

- A. The ducted indoor unit shall have 4 hanging brackets that are sized for 3/8 threaded rod.
- B. The installer must use 3/8 threaded rod to suspend the mid-static ducted indoor unit from the building structure.
- C. The installer must install the unit upright and level in all directions.

5.5 Electrical Requirements

(5.5.1) Electrical Disconnect

- A. Connecting wire must be continuous (without break) unless local code requires a disconnect at the indoor unit.
- B. If a disconnect is required by local code, it must be a 3-pole, single-throw type.

Model	Fan Motor Power Output (W)
US24MB2BEA	200
US30MB2BEA	
US36MB2BEA	

5.6 Components

(5.6.1) Coil

- A. Coil shall be painted with a hydrophilic coating to increase airflow efficiency.
- B. Copper tubing shall have inner micro grooves to increase effective heat transfer capabilities.
- C. Coils shall be pressure tested at 600–650 PSI using Helium leak detection.
- D. The coil shall be charged with dry nitrogen for shipping at 70–100 PSI pressure.

(5.6.2) Fan Motor

- A. The ducted fan motor shall be a sealed DC resin-packed motor.
- B. The fan motor shall have permanently lubricated bearings

(5.6.3) Fan Blade

- A. The fan blade shall be a non-corrodible centrifugal fan blower.

(5.6.4) Copper Piping

- A. The coil shall be connected to a length of insulated annealed copper.
- B. The ends of the tubing shall have female flare connections.

(5.6.5) Filter

- A. The ducted indoor unit shall have removable air filters.
- B. The air filters shall be washable and reusable.

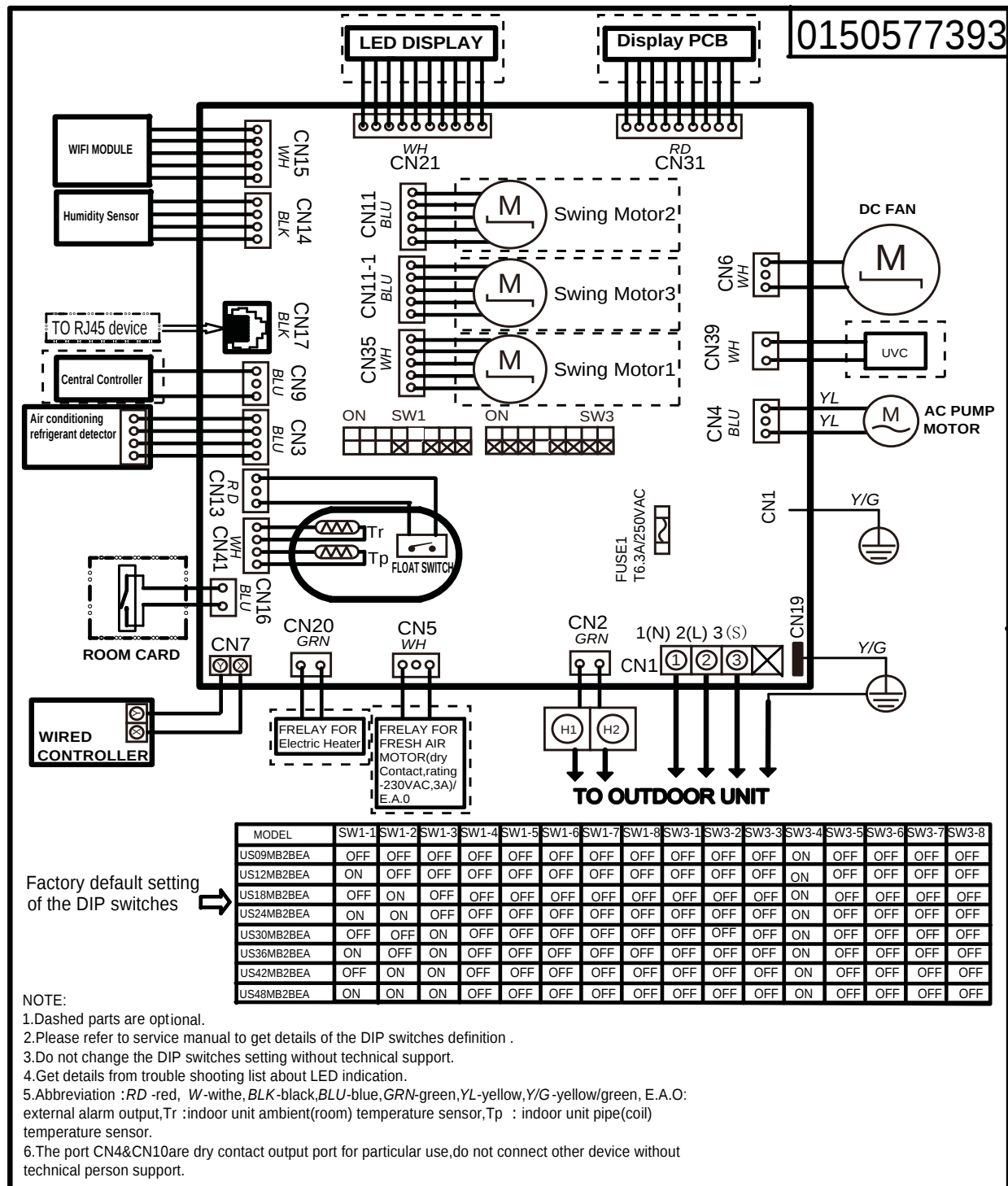
(5.6.6) Control

- A. The controller must be ordered separately.
- B. The ducted indoor unit shall be compatible with the Simplified Wired Controller (GACT17B).

(5.6.7) WiFi

- C. The ducted indoor unit shall include a WiFi adapter.

5.7 Wiring Diagrams

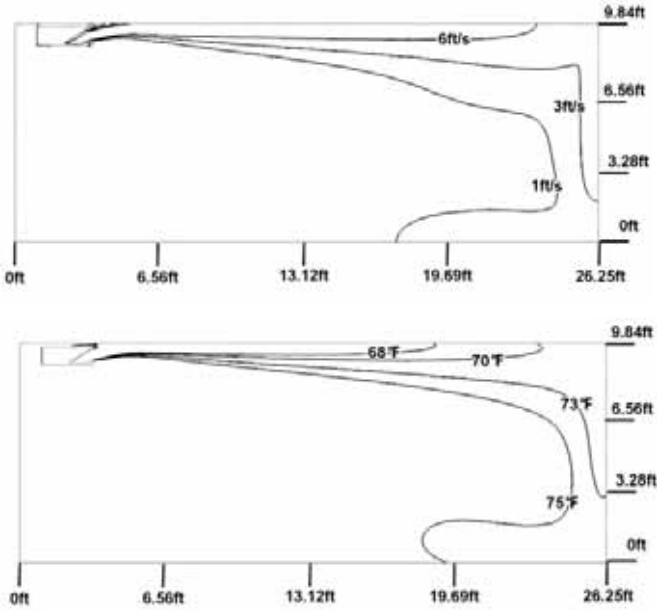


5. DUCTED INDOOR UNITS

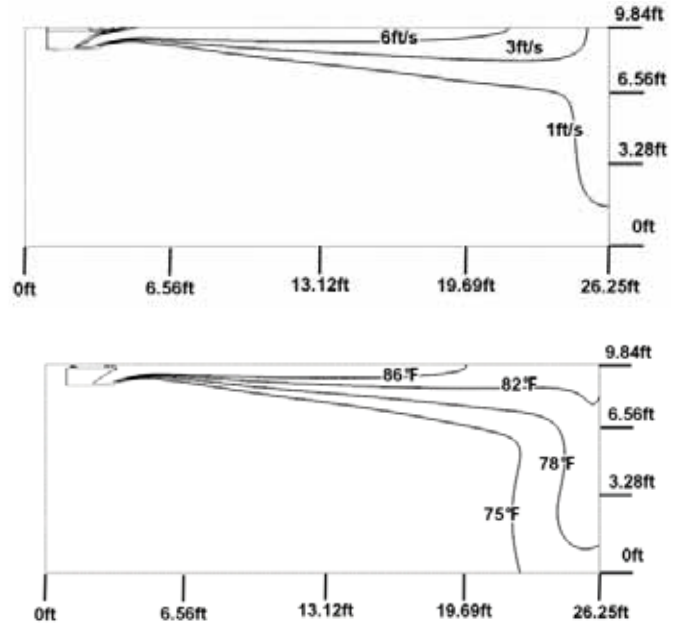
5.8 Air Velocity and Temperature Distribution

US24MB2BEA

COOLING

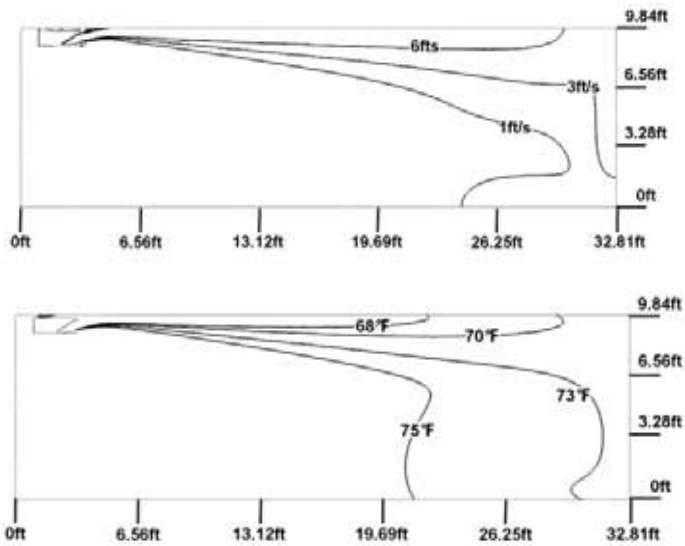


HEATING

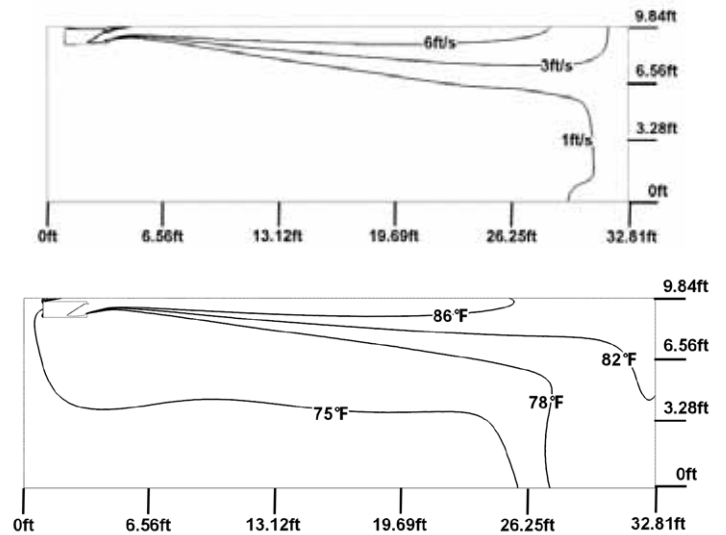


US30MB2BEA
US36MB2BEA

COOLING

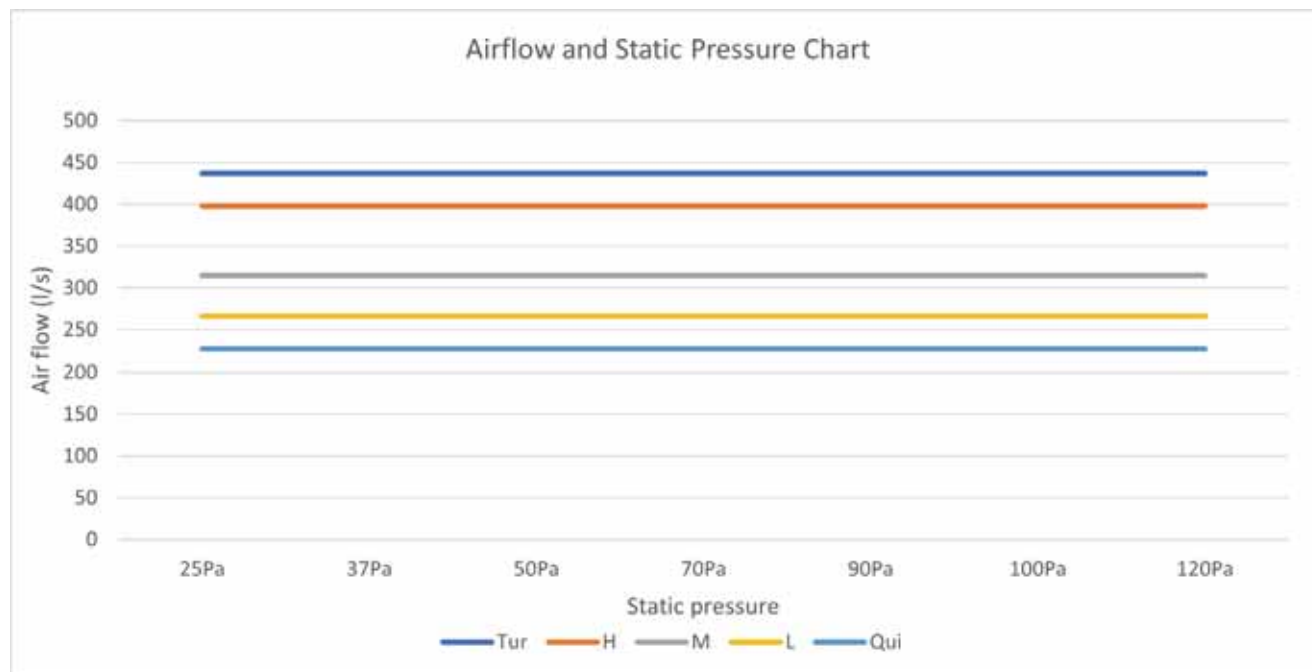


HEATING

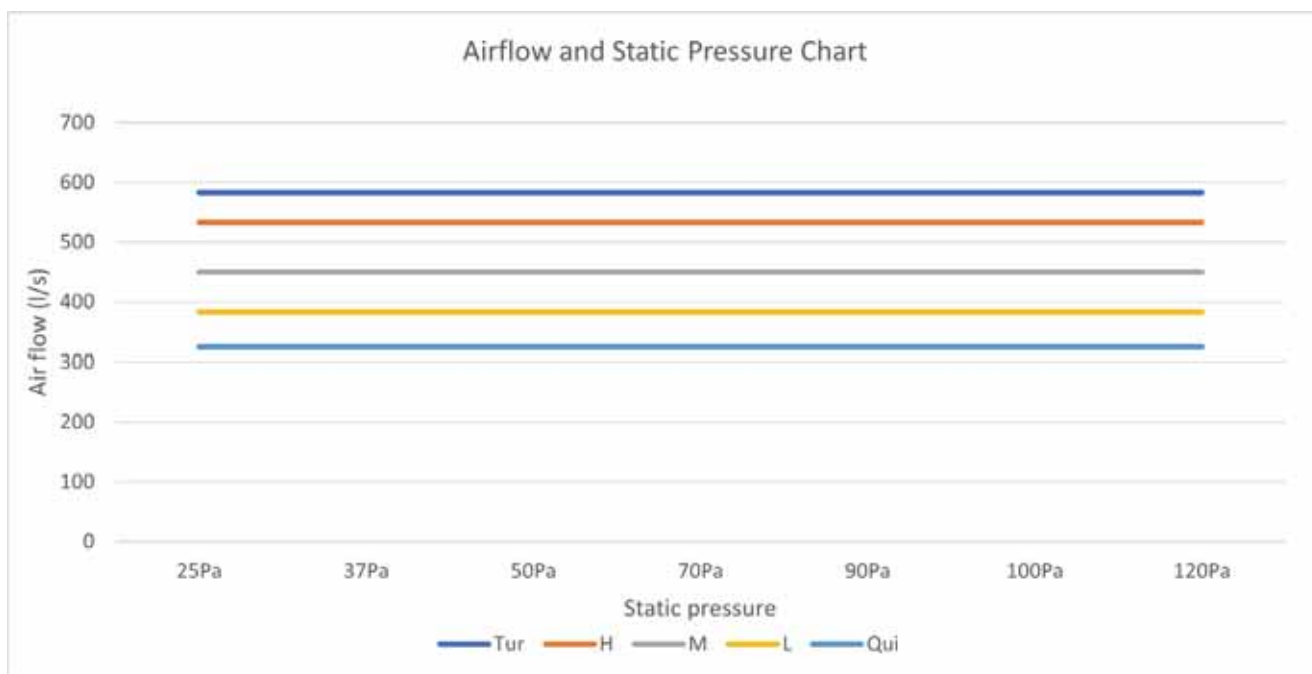


5.9 Airflow and Static Pressure

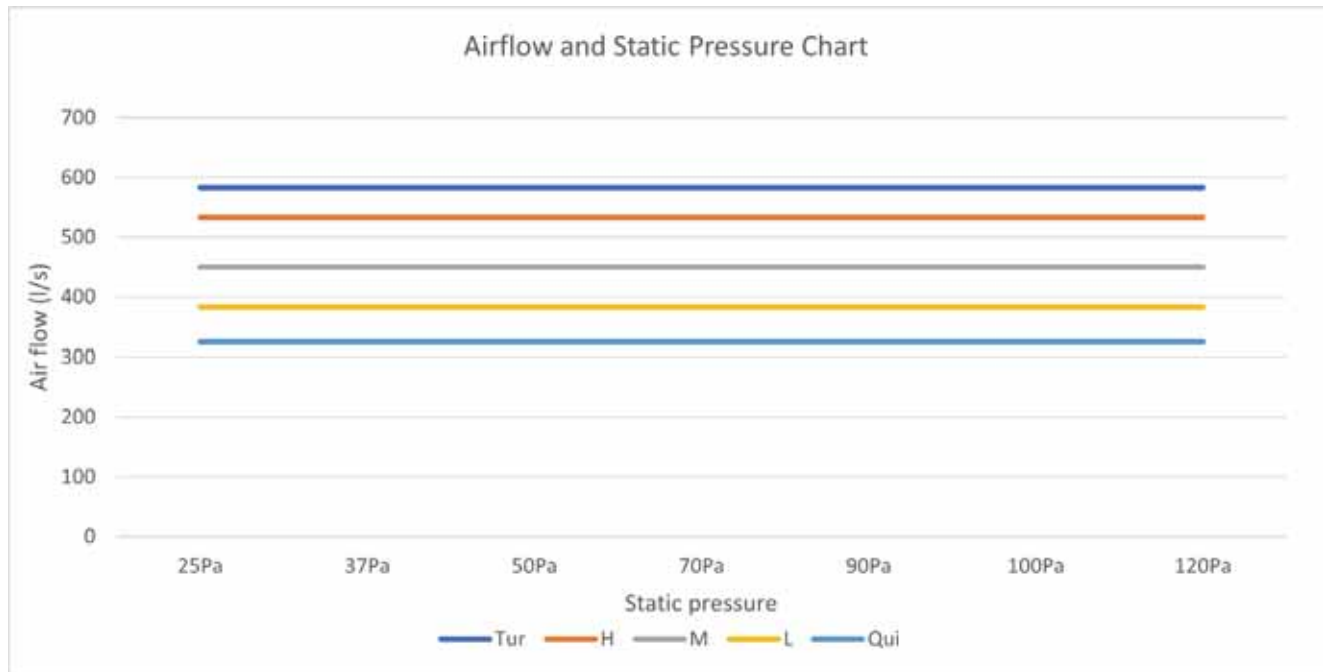
US24MB2BEA



US30MB2BEA

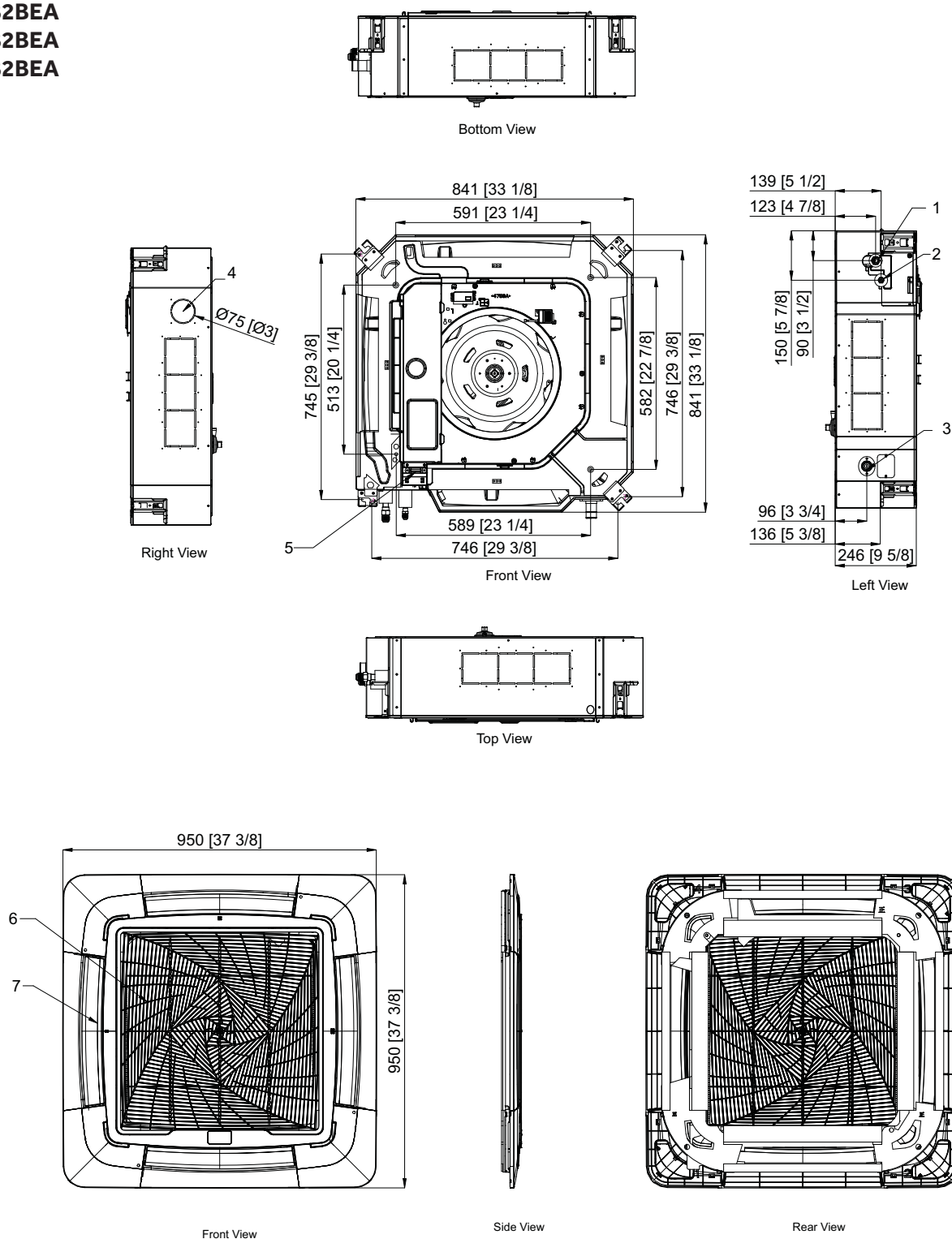


US36MB2BEA



6.1 Dimensions

US24LB2BEA
US30LB2BEA
US36LB2BEA

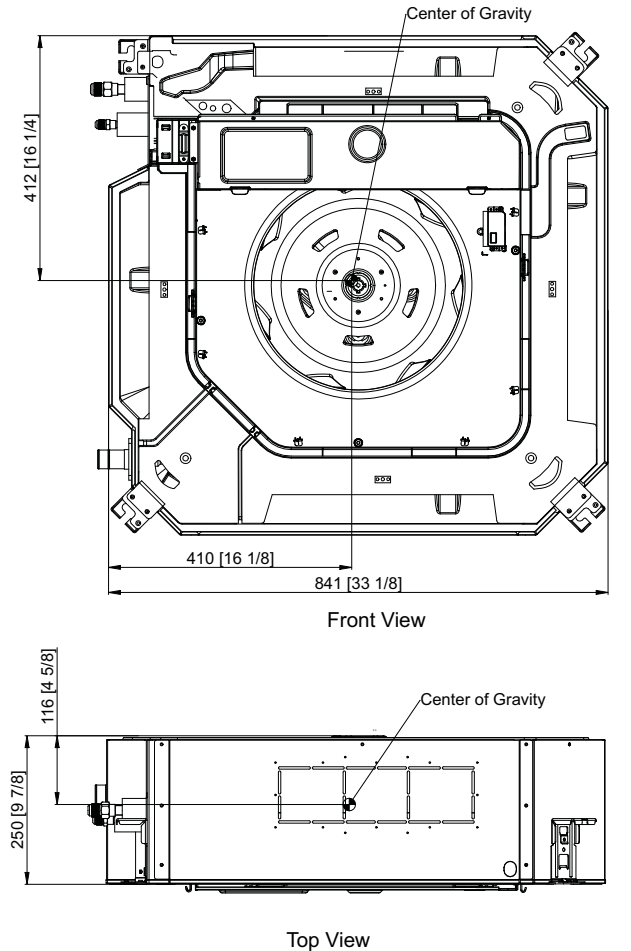


No	Part Name
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Fresh Air Inlet
5	Power Cable And Communication Cable Routing Hole
6	Air Inlet
7	Air Outlet

Unit: mm [in.]

6.2 Center of Gravity

US24LB2BEA
US30LB2BEA
US36LB2BEA



Unit: mm [in.]

6.3 General

6.3.1) Indoor Unit Description

- A. The cassette indoor section completes the system when connected to the matching outdoor unit and field-supplied piping and wiring.

(6.3.2) Sound Ratings

Model	Cooling Sound Level dB(A) (Turbo/High/Med/Low/Quiet)	Heating Sound Level dB(A) (Turbo/High/Med/Low/Quiet)
US24LB2BEA	Sound Pressure Rating: 46/44/41/38/35 Sound Power Rating: 61/59/56/53/50	Sound Pressure Rating: 46/44/42/39/36 Sound Power Rating: 61/59/57/54/51
US30LB2BEA	Sound Pressure Rating: 51/50/45/44/39 Sound Power Rating: 66/65/60/59/54	Sound Pressure Rating: 51/50/45/44/39 Sound Power Rating: 66/65/60/59/54
US36LB2BEA	Sound Pressure Rating: 51/50/45/44/39 Sound Power Rating: 61/59/56/53/50	Sound Pressure Rating: 51/50/45/44/39 Sound Power Rating: 61/59/56/53/50

(6.3.3) Warranty

- A. The cassette indoor unit shall be covered by a manufacture parts warranty.

6. CASSETTE INDOOR UNITS

6.4 Installation

(6.4.1) Condensate

- A. The cassette indoor unit shall ship with an insulated drain tube adapter that is sized for 3/4-inch PVC on one end.
- B. The cassette indoor unit shall be a gravity drain.

(6.4.2) Clearances

- A. The installer must follow the minimum clearances illustrated in the Installation Manual when installing the indoor unit.

(6.4.3) Mounting

- A. The cassette indoor unit shall have 4 hanging brackets that are sized for 3/8 threaded rod.
- B. The installer must use 3/8 threaded rod to suspend the cassette indoor unit from the building structure.
- C. The installer must install the unit upright and level in all directions.

6.5 Electrical Requirements

(6.5.1) Electrical Disconnect

- A. Connecting wire must be continuous (without break) unless local code requires a disconnect at the indoor unit.
- B. If a disconnect is required by local code, it must be a 3-pole, single-throw type.

Model	Fan Motor Power Output (W)
US24LB2BEA	100
US30LB2BEA	
US36LB2BEA	

6.6 Components

(6.6.1) Coil

- A. Coil shall be painted with a hydrophilic coating to increase airflow efficiency.
- B. Copper tubing shall have inner micro grooves to increase effective heat transfer capabilities.
- C. Coils shall be pressure tested at 600~650 PSI using Helium leak detection.
- D. The coil shall be charged with dry nitrogen for shipping at 70~100 PSI pressure.

(6.6.2) Fan Motor

- A. The fan motor shall be a sealed DC multiple-speed resin-packed motor
- B. The fan motor shall have permanently lubricated bearings.

(6.6.3) Fan Blade

- A. The fan blade shall be a non-corrodible axial fan blower.

(6.6.4) Copper Piping

- A. The coil shall be connected to a length of insulated annealed copper.
- B. The ends of the tubing shall have male flare connections.

(6.6.5) Panel

- A. A panel must be ordered separately.
- B. The cassette must be installed with a 1 inch recess beyond the ceiling surface to allow the panel to properly fit flush against the ceiling and to allow the panel gasket to seal against the cassette.

(6.6.6) Control

- A. The cassette indoor units shall ship with the Standard Remote (YR-HQ).
- B. The cassette indoor unit shall be compatible with the Simplified Wired Controller (GACT17B).

(6.6.7) WiFi

- A. The cassette indoor unit shall include a WiFi adapter.

6.7 Panels

GACCP01GA 2x2 Compact Cassette Panel

(6.7.1) General

- A. The GACCP01GA panel must be ordered separately when ordering the indoor cassette unit..

(6.7.2) Compatibility

- A. The GACCP01GA panel shall be compatible Compact Cassette indoor units, US09CB2BEA, US12CB2BEA and US18CB2BEA.

(6.7.3) Installation

- A. The cassette must be installed with a 1 inch recess beyond the ceiling surface to allow the panel to properly fit flush against the ceiling and to allow the panel gasket to seal against the cassette.

(6.7.4) Filter

- A. The cassette indoor unit shall have a removable air filter.
- B. The air filters shall be washable and reusable.

(6.7.5) Air Flow Control

- A. The GACCP01GA shall have vertical and horizontal louvers on all side to direct the air flow.

GALCP01GA 3x3 Large Cassette Panel

(6.7.1) General

- A. The GALCP01GA panel must be ordered separately when ordering the indoor cassette unit..

(6.7.2) Compatibility

- A. The GALCP01GA panel shall be compatible Compact Cassette indoor unit US24LB2BEA, US30LB2BEA , US36LB2BEA

(6.7.3) Installation

- A. The cassette must be installed with a 1 inch recess beyond the ceiling surface to allow the panel to properly fit flush against the ceiling and to allow the panel gasket to seal against the cassette.

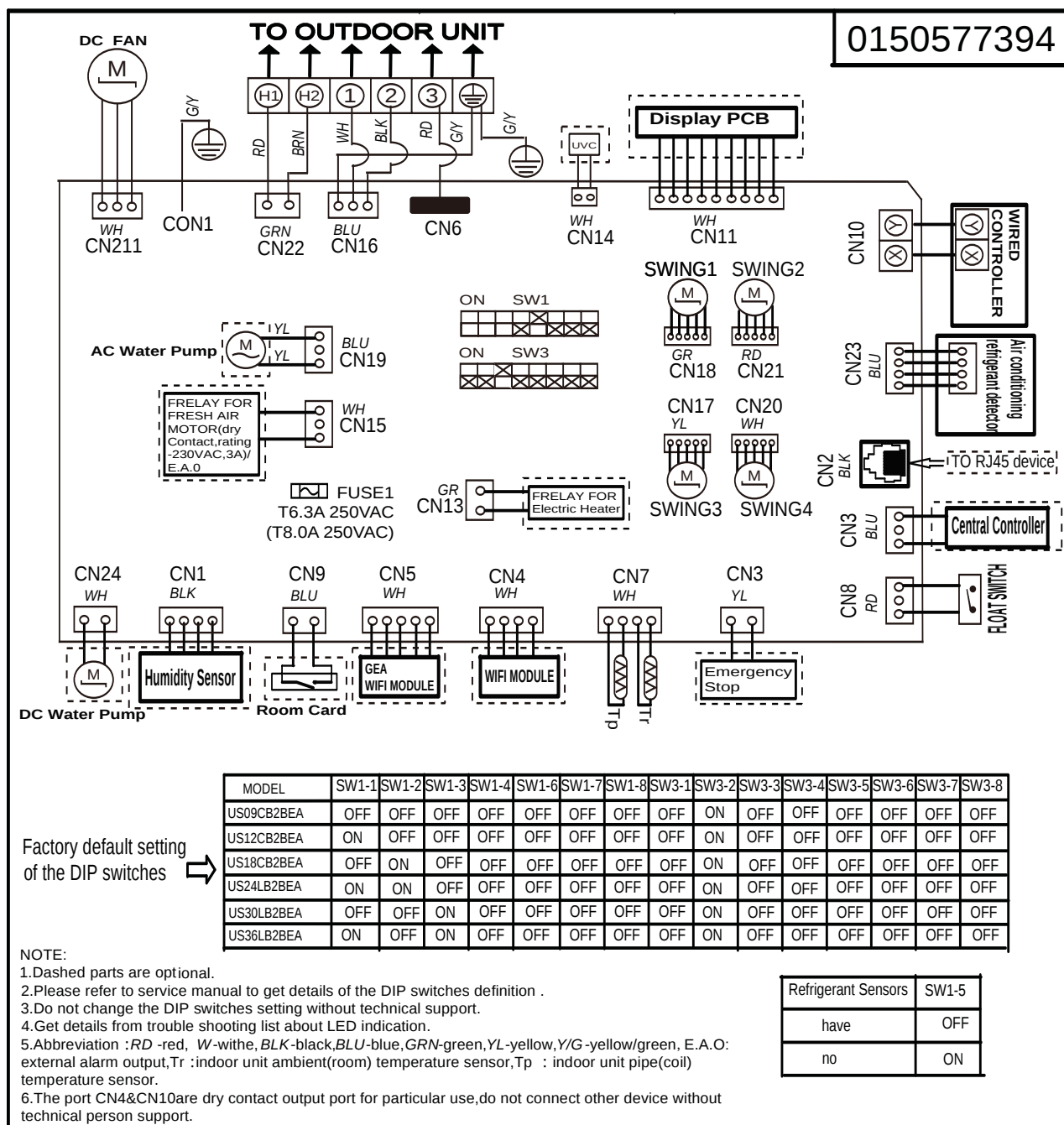
(6.7.4) Filter

- A. The cassette indoor unit shall have a removable air filter.
- B. The air filters shall be washable and reusable.

(6.7.5) Air Flow Control

- A. A. The GALCP01GA shall have horizontal louvers on all sides to direct the air flow.
- A. B. The GALCP01GA shall have individual louver control.

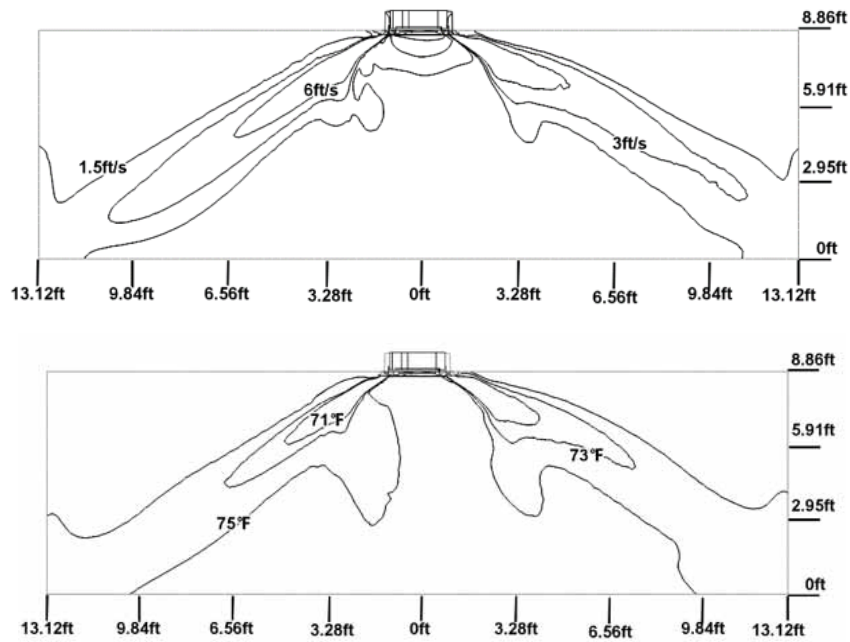
6.8 Wiring Diagrams



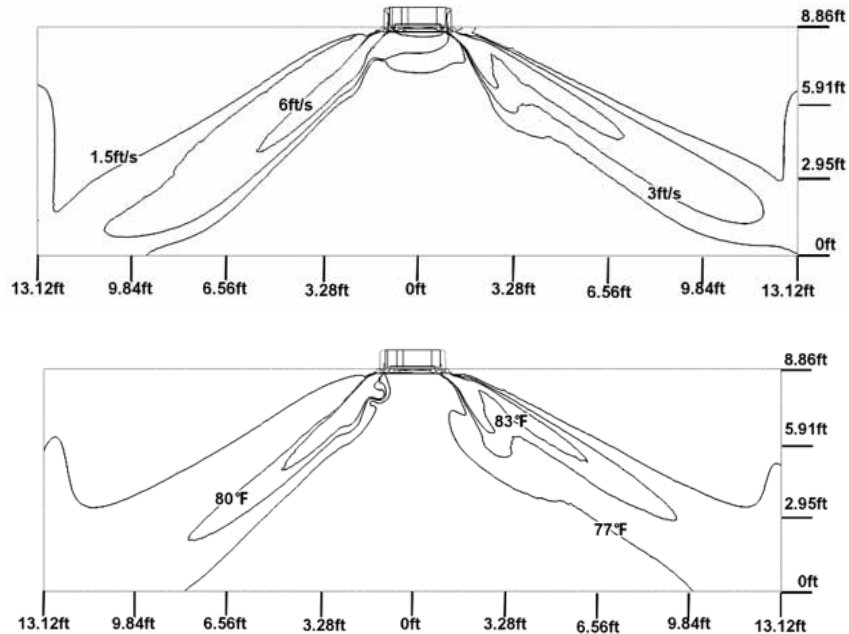
6.9 Air Velocity and Temperature Distribution

US24LB2BEA
US30LB2BEA
US36LB2BEA

COOLING



HEATING

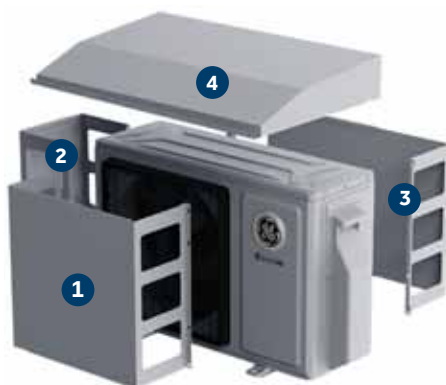


7. CONTROLS AND ACCESSORIES

7.1 Outdoor Unit Accessories

(7.1.1) Wind Baffles & Top Covers

Operating Conditions	Recommended Accessories			
	1	2	3	4
	Front Wind Baffle	Side Wind Baffle	Back Wind Baffle	Top Cover
Low Ambient Cooling below 23°F (5°C) (server/mechanical room)	Required	Required	Required	Required
Low Ambient Heating below 5°F (-15°C)	-	Strongly Recommended	Strongly Recommended	Strongly Recommended
Unit installed on a flat roof or facing prevailing wind	Required	-	-	-



Fabricated from durable 20 gauge G90 galvanized steel and engineered to provide optimal performance when operating the outdoor unit in cold, harsh climates.

A front wind baffle is required for all climates when mounted on a flat roof or facing prevailing winds.

Model	Front or Back Wind Baffles (If both a front and back wind baffle are needed, order two (2) of the required part)	Side Wind Baffles	Top Covers
1G24ED2BEA	UAWB31GA	UASWB31GA	UATC31GA
1G3036ED2BEA	UAWB51GA	UASWB51GA	UATC51GA

7.2 Indoor Unit Accessories

(7.2.1) Cassette Panels

Required for cassette indoor units; sold separately. Remote controller (WJ26X35396) is included with cassette panel.



GALCP01WA
Large Cassette Panel

Fits Models:
US24LB2BEA
US30LB2BEA
US36LB2BEA

(7.2.2) UALS01A Refrigerant Detection Sensor (RDS)

Note: See room sizing requirements to determine if the Refrigerant Detection Sensor (RDS) is required and needs to be purchased separately for highwall and cassette indoor units. RDS is factory-installed on console and ducted units.



(7.2.3) Merv Return Air Filter Boxes

MERV return air filter boxes for ducted indoor models.



UAMFB1824A

Fits Models:
US24MB2BEA

UAMFB3048A

Fits Models:
US30MB2BEA
US36MB2BEA

(7.2.4) Supply Plenums

Supply plenums for ducted indoor models..



UAAPT1824A

Fits Models:
US24MB2BEA

UAAPT3048A

Fits Models:
US30MB2BEA
US36MB2BEA

(7.2.5) WiFi

General

- A. Units to come complete with WiFi Built in.

Connection

- B. The WiFi adapter shall have an app that is compatible with both iOS and Android.
- C. The WiFi adapter shall be paired with existing 2.4GHz network.
- D. The WiFi adapter shall comply with Part 15 of the FCC rules..

Warranty

- A. The warranty shall cover all defects in workmanship or material for a period of 1 year. Haier will provide a new or refurbished controller, at its sole discretion.

Features

- A. The WiFi adapter shall be Google Home compatible.
- B. The WiFi adapter shall be Amazon Alexa compatible.
- C. The homeowner shall have the ability to install and configure the WiFi adapter.

7.3 Controllers

Controllers from Haier allow you to take command of your environment. With convenient user-friendly button layouts and clear digital displays, the system can be easily set to meet and maintain comfort levels.

(7.3.1) Remote Controllers

General

- A. Standard Remote Control shall be compatible with wall mounted indoor units.
- B. Standard Remote Control shall come packaged with wall mounted indoor units.

Connection

- A. Standard remote control shall be infrared.

Compatibility

- A. The wireless control shall be compatible with all wall mounted, floor console and cassette indoor models.

Warranty

- A. The warranty shall also cover all defects in workmanship or material for the unit accessory for a period of 1 year. Haier will provide a new or refurbished controller at its sole discretion.

Features

- A. The Standard Remote Control shall have a power button, individual mode buttons (heat, cool, dehumidify), temperature +/-, fan speed, vertical and horizontal louver adjust.
- B. The Standard Remote Control shall be capable of setting a precise temperature of $\pm 1^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$).
- C. The Standard Remote Control shall have a backlight.
- D. The Standard Remote Control shall have vertical and horizontal louver control.
- E. The Standard Remote Control shall have a child lock function.
- F. The Standard Remote Control shall have the ability to turn on/off the indoor unit display.
- G. The Standard Remote Control shall have Fahrenheit and Celsius temperature functions.

(7.3.2) Wired Controller



General

A. The wired controller shall be a wall-mounted control that operates the indoor unit.

Connection

A. The wired controller shall connect to an indoor unit using the supplied 3-pin cable.

B. 2 wired controls shall be connectable to one indoor unit.

C. A single wired controller shall be able to connect up to 16 of the same model type of indoor units. The connected units shall work in unison as a single zone.

Compatibility

A. The wired controller shall be compatible with all Haier indoor units.

Warranty

A. The warranty shall also cover all defects in workmanship or material for the unit accessory for a period of 1 year. Haier will provide a new or refurbished controller, at its sole discretion.

Features

- A. The wired controller shall have large physical buttons for easy operation.
- B. The wired controller shall have a power button, a mode button (heat, cool, dry), a fan speed button, a temperature up button and a temperature down button.
- C. The wired controller shall be capable of setting a precise temperature of $\pm 1^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$).
- D. The wired controller shall have a backlight.
- E. The wired controller shall have vertical and horizontal louver control.
- F. The wired controller shall have a child lock function.
- G. The wired controller shall display either Fahrenheit or Celsius.
- H. The wired controller shall have the ability to display indoor ambient temperature.
- I. The wired controller shall have a Clean Filter reminder.
- J. The wired controller shall display error codes.
- K. The wired controller shall have an infrared receiver that can receive commands from a Haier hand-held remote control.

7.4 Indoor Unit Accessory Compatibility Table

		Remote Controllers			Wired Controller	Refrigerant Detection Sensor (RDS)
Model Number		WJ26X35395	WJ26X35813	WJ26X35396	GACT17B	UALS01A
Highwall	GS24WP2BEA	●			○	○
	GS30WB2BEA	●			○	○
	GS36WB2BEA	●			○	○
Large Cassette	US24LB2BEA					○
	US30LB2BEA					○
	US36LB2BEA					○
	GALCP01WA*			●	○	
Ducted	US24MB2BEA				⊙	●
	US30MB2BEA				⊙	●
	US36MB2BEA				⊙	●

*Cassette Panel

● = Included ⊙ = Required, sold separately ○ = Optional; sold separately
See Outdoor Unit Accessory Compatibility Table for 5" Central Controller compatibility



GE APPLIANCES
a Haier company

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SOLUTIONS

Ductless Technical Support

Phone: 866.814.3633

Email: HVACSupport@GEAppliances.com

Online: GEAppliancesAirAndWater.com



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