

Haier

Single-Zone Ductless Mini-Split Heat Pumps



2Q18FF2BEA
3Q24FF2BEA
4Q36FF2BEA



Wall Mount - Highwall

QS09WB2BEA
QS12WB2BEA
QS18WB2BEA
QS24WB2BEA
QS30WB2BEA
QS36WB2BEA



Cassette

US09CB2BEA
US12CB2BEA
US18CB2BEA
US24LB2BEA
US30LB2BEA
US36LB2BEA



Console

US09FB2BEA
US12FB2BEA
US18FB2BEA



Ducted

US09MB2BEA
US12MB2BEA
US18MB2BEA
US24MB2BEA



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AIR & WATER
SOLUTIONS



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Revision History

11-21-25: Edition release.

1. SPECIFICATIONS

NOTE

Our continued commitment to quality products may mean a change in specifications without notice.
Visit GEAppliancesAirandWater.com to access current specification tables online.



	Outdoor Unit	1Q09FF2BEA	1Q12FF2BEA	1Q15FF2BEA	1Q18FF2BEA	1Q24FF2BEA	1Q3036FF2BEA	1Q3036FF2BEA
	Indoor Unit	QS09WB2BEA	QS12WB2BEA	QS15WB2BEA	QS18WB2BEA	QS24WB2BEA	QS30WB2BEA	QS36WB2BEA
Cooling	Rated Capacity Btu/hr	9,000	11,800	13,500	17,000	24,000	28,400	32,400
	Capacity Range Btu/hr	3,100-11,000	3,400-13,000	4,000-16,000	4,500-19,000	4,500-26,000	6,000-31,000	6,000-33,500
	SEER2	23	21	21	20	18	18	18
	EER2	12	12	11.7	12	12	12	9.8
	Moisture Removal Pt./hr	2.6	2.7	3.2	3.6	4.9	5.2	7.3
Heating	Rated Heating Capacity 47°F Btu/hr	10,000	13,000	17,000	19,000	24,000	31,000	36,000
	Heating Capacity Range Btu/hr	3,100-11,000	3,200-14,000	3,500-18,000	4,000-20,000	4,000-26,000	6,500-32,500	6,500-37,000
	HSPF2 (IV)	9.5	9.5	9.5	9.5	9.5	9.5	9.5
	Rated Heating Capacity 5°F Btu/hr	8,000	10,400	13,600	15,200	19,200	26,000	24,000
	Heating Capacity at 5°F / Capacity at 47°F	80%	80%	80%	80%	80%	84%	67%
Operating Range	COP 5°F	1.8	1.8	1.8	1.8	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)	23~115°F (-5~46°C)	23~115°F (-5~46°C)	23~115°F (-5~46°C)	23~115°F (-5~46°C)
	Cooling (With Wind Baffle or Top Cover)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)
Power Supply	Heating	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)
	Voltage, Cycle, Phase (V/Hz/-)	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
	Maximum Fuse Size A	10	10	20	20	30	35	35
Outdoor Unit	Minimum Circuit Amp A	9	9	14	15	20	25	25
	Compressor Type	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary
	Outdoor Noise Level dB	55	55	58	58	61	64	64
Indoor Unit	Dimension: H x W x D in (mm)	21 3/4 x 34 x 11 (553 x 863 x 280)	21 3/4 x 34 x 11 (553 x 863 x 280)	25 1/4 x 35 3/8 x 12 (642 x 898 x 306)	25 1/4 x 35 3/8 x 12 (642 x 898 x 306)	32 1/8 x 40 3/8 x 14 5/8 (815 x 1024 x 370)	32 1/8 x 40 3/8 x 14 5/8 (815 x 1024 x 370)	32 1/8 x 40 3/8 x 14 5/8 (815 x 1024 x 370)
	Weight (Net/Ship) - lbs (kg)	70.17/82.96 (31.8/37.6)	70.17/82.96 (31.8/37.6)	88.15/100.4 (39.95/45.5)	90.47/103.26 (41/46.8)	121.36/147.84 (55/67)	147.84/166.59 (67/75.5)	147.84/166.59 (67/75.5)
	Basepan Heater	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Indoor Unit	Fan Speed Stages	5 + Auto	5 + Auto	5 + Auto	5 + Auto	5 + Auto	5 + Auto	5 + Auto
	Airflow CFM: Cooling (Turbo/High/Med/Low/Quiet)	360/290/260/230/210	360/300/272/240/210	410/370/280/210/170	570/520/480/420/330	800/730/630/535/440	800/725/650/510/430	840/765/690/550/470
	Airflow CFM: Heating (Turbo/High/Med/Low/Quiet)	350/290/250/220/200	350/290/260/230/200	420/390/350/310/180	570/520/450/380/310	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)	44/38/35/32/27	44/39/36/33/27	46/45/40/33/26	50/46/44/40/35	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)	42/36/32/28/26	42/36/32/29/25	44/43/40/37/23	48/46/41/38/33	54/50/47/44/38	55/53/49/44/40	56/54/50/44/40
	Auto Up-Down Louver	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Auto Left-Right Louver	No	No	No	No	No	No	No
	Drain Pipe Size O.D in	5/8	5/8	5/8	5/8	5/8	5/8	5/8
	Dimension: H x W x D in (mm)	11 7/8 x 34 1/4 x 7 3/4 (301 x 870 x 196)	11 7/8 x 34 1/4 x 7 3/4 (301 x 870 x 196)	12 1/4 x 36 1/8 x 8 3/8 (312 x 918 x 213)	12 7/8 x 39 3/8 x 8 3/4 (327 x 999 x 223)	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)	21.84/26.92 (9.9/12.2)	21.84/26.92 (9.9/12.2)	24.49/30.45 (11.1/13.8)	27.8/34.64 (12.6/15.7)	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	No	No	No	No
	Refrigerant Detection Sensor (RDS) Compatible	Yes (UALS01A, sold separately)	Yes (UALS01A, sold separately)	Yes (UALS01A, sold separately)	Yes (UALS01A, sold separately)	Yes (UALS01A, sold separately)	Yes (UALS01A, sold separately)	Yes (UALS01A, sold separately)
Refrigerant Lines	WiFi*	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
	Refrigerant	R454B	R454B	R454B	R454B	R454B	R454B	R454B
	Connections	Flare	Flare	Flare	Flare	Flare	Flare	Flare
	Liquid O.D. in	1/4	1/4	1/4	1/4	1/4	3/8	3/8
	Suction O.D. in	3/8	3/8	3/8	1/2	1/2	5/8	5/8
	Factory Charge Oz	36.5	36.5	50.09	45.9	67.0	88.2	88.2
	Maximum Line Length Ft / m	66/20	66/20	66/20	83/25	165/50	165/50	165/50
	Maximum Height Ft / m	33/10	33/10	33/10	50/15	100/30	100/30	100/30

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

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1. SPECIFICATIONS

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	Outdoor Unit	1Q09FF2BEA	1Q12FF2BEA	1Q18FF2BEA
	Indoor Unit	US09CB2BEA	US12CB2BEA	US18CB2BEA
	Panel (required, sold separately)	QACCP01WA	QACCP01WA	QACCP01WA
Cooling	Rated Capacity Btu/hr	9,000	12,000	16,000
	Capacity Range Btu/hr	3,100-11,000	3,400-13,000	4,500-17,000
	SEER2	20	19.8	18.5
	EER2	12.2	12	11.7
	Moisture Removal Pt./hr	2.5	3.2	3.8
Heating	Rated Heating Capacity 47°F Btu/hr	10,000	12,500	18,000
	Heating Capacity Range Btu/hr	3,100-11,000	3,200-14,000	4,000-20,000
	HSPF2 (IV)	9.5	9.5	9.1
	Rated Heating Capacity 5°F Btu/hr	7,500	9,000	14,400
	Heating Capacity at 5°F / Capacity at 47°F	77%	73%	80%
	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)
	Cooling (With Wind Baffle or Top Cover)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)
	Heating	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)
Power Supply	Voltage, Cycle, Phase (V/Hz/-)	208-230/60/1	208-230/60/1	208-230/60/1
	Maximum Fuse Size A	10	10	20
	Minimum Circuit Amp A	9	9	15
Outdoor Unit	Compressor Type	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary
	Outdoor Noise Level dB	55	55	58
	Dimension: H x W x D in (mm)	21 3/4 x 34 x 11 (553 x 863 x 280)	21 3/4 x 34 x 11 (553 x 863 x 280)	25 1/4 x 35 3/8 x 12 (642 x 898 x 306)
	Weight (Net/Ship) - lbs (kg)	70.17/82.96 (31.8/37.6)	70.17/82.96 (31.8/37.6)	90.47/103.26 (41/46.8)
	Basepan Heater	Yes	Yes	Yes
Indoor Unit	Fan Speed Stages	5 + Auto	5 + Auto	5 + Auto
	Airflow CFM: Cooling (Turbo/High/Med/Low/Quiet)	440/387/351/320/290	440/387/351/320/290	458/425/387/345/302
	Airflow CFM: Heating (Turbo/High/Med/Low/Quiet)	440/387/351/320/290	440/387/351/320/290	479/441/387/345/302
	Indoor Sound Level dB: Cooling (Turbo/High/Med/Low/Quiet)	41/39/34/31/23	44/43/40/34/31	45/40/35/30/29
	Indoor Sound Level dB: Heating (Turbo/High/Med/Low/Quiet)	41/39/34/30/23	43/41/39/33/30	44/40/35/30/28
	Auto Up-Down Louver	Yes	Yes	Yes
	Auto Left-Right Louver	No	No	No
	Dimension: H x W x D in (mm)	10 1/4 x 22 3/4 x 22 3/4 (260 x 575 x 575)	10 1/4 x 22 3/4 x 22 3/4 (260 x 575 x 575)	10 1/4 x 22 3/4 x 22 3/4 (260 x 575 x 575)
	Weight (Net/Ship) - lbs (kg)	32.41/47.4 (14.7/21.5)	32.41/47.4 (14.7/21.5)	32.41/47.4 (14.7/21.5)
	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	1/4	1/4	1/4
	Suction O.D. in	3/8	3/8	1/2
	Factory Charge Oz	36.5	36.5	45.9
	Maximum Line Length Ft / m	66/20	66/20	83/25
	Maximum Height Ft / m	33/10	33/10	50/15

*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	1Q24FF2BEA	1Q3036FF2BEA	1Q3036FF2BEA
	Indoor Unit	US24LB2BEA	US30LB2BEA	US36LB2BEA
	Panel (required, sold separately)	QALCP01WA	QALCP01WA	QALCP01WA
Cooling	Rated Capacity Btu/hr	23,000	30,000	33,800
	Capacity Range Btu/hr	4,500-25,000	6,000-31,000	6,000-34,000
	SEER2	19.5	19	18.8
	EER2	11.7	11.2	10.6
	Moisture Removal Pt./hr	6.9	9.8	9.8
Heating	Rated Heating Capacity 47°F Btu/hr	25,000	30,000	35,000
	Heating Capacity Range Btu/hr	4,000-25,000	6,500-32,000	6,500-36,000
	HSPF2 (IV)	9.5	10	9.3
	Rated Heating Capacity 5°F Btu/hr	20,000	24,000	26,000
	Heating Capacity at 5°F / Capacity at 47°F	80%	86%	74%
	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)
	Cooling (With Wind Baffle or Top Cover)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)
	Heating	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°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	35	35
	Minimum Circuit Amp A	20	25	25
Outdoor Unit	Compressor Type	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary
	Outdoor Noise Level dB	61	64	64
	Dimension: H x W x D in (mm)	32 1/8 x 40 3/8 x 14 5/8 (815 x 1024 x 370)	32 1/8 x 40 3/8 x 14 5/8 (815 x 1024 x 370)	32 1/8 x 40 3/8 x 14 5/8 (815 x 1024 x 370)
	Weight (Net/Ship) - lbs (kg)	121.36/147.84 (55/67)	147.84/166.59 (67/75.5)	147.84/166.59 (67/75.5)
	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)	49/47/45/39/35	58/56/51/46/44	59/57/52/47/45
	Indoor Sound Level dB: Heating (Turbo/High/Med/Low/Quiet)	48/47/45/38/34	57/55/50/45/43	58/56/51/46/44
	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)	39 3/8 (1000)	39 3/8 (1000)	39 3/8 (1000)
	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	3/8 (use 1/4" to 3/8" adaptor shipped with outdoor unit)	3/8	3/8
	Suction O.D. in	5/8 (use 1/2" to 5/8" adaptor shipped with outdoor unit)	3/4 (use 5/8" to 3/4" adaptor shipped with outdoor unit)	3/4 (use 5/8" to 3/4" adaptor shipped with outdoor unit)
	Factory Charge Oz	67.0	88.2	88.2
	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.

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SPECIFICATIONS

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Outdoor Unit		1Q09FF2BEA	1Q12FF2BEA	1Q18FF2BEA
Indoor Unit		US09FB2BEA	US12FB2BEA	US18FB2BEA
Cooling	Rated Capacity Btu/hr	9,000	12,000	16,000
	Capacity Range Btu/hr	3,100-11,000	3,400-13,000	4,300-18,000
	SEER2	20	19	17
	EER2	12	9.5	8.6
	Moisture Removal Pt./hr	2.16	3.4	3.8
Heating	Rated Heating Capacity 47°F Btu/hr	10,000	12,500	17,000
	Heating Capacity Range Btu/hr	3,100-11,000	3,200-13,000	3,600-15,000
	HSPF2 (IV)	9.5	9.2	7.8
	Rated Heating Capacity 5°F Btu/hr	8,500	9,500	12,600
	Heating Capacity at 5°F / Capacity at 47°F	91%	71%	75%
	COP 5°F	1.8	1.8	1.75
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)
	Cooling (With Wind Baffle or Top Cover)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)
	Heating	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)
Power Supply	Voltage, Cycle, Phase (V/Hz/-)	208-230/60/1	208-230/60/1	208-230/60/1
	Maximum Fuse Size A	10	10	20
	Minimum Circuit Amp A	9	9	15
Outdoor Unit	Compressor Type	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary
	Outdoor Noise Level dB	55	55	58
	Dimension: H x W x D in (mm)	21 3/4 x 34 x 11 (553 x 863 x 280)	21 3/4 x 34 x 11 (553 x 863 x 280)	25 1/4 x 35 3/8 x 12 (642 x 898 x 306)
	Weight (Net/Ship) - lbs (kg)	70.17/82.96 (31.8/37.6)	70.17/82.96 (31.8/37.6)	90.47/103.26 (41/46.8)
	Basepan Heater	Yes	Yes	Yes
Indoor Unit	Fan Speed Stages	5 + Auto	5 + Auto	5 + Auto
	Airflow CFM: Cooling (Turbo/High/Med/Low/Quiet)	290/218/205/176/147	314/226/210/195/175	345/300/280/218/210
	Airflow CFM: Heating (Turbo/High/Med/Low/Quiet)	312/206/205/176/147	311/223/200/195/175	328/296/263/206/200
	Indoor Sound Level dB: Cooling (Turbo/High/Med/Low/Quiet)	44/40/36/32/28	48/41/37/33/30	49/44/43/38/35
	Indoor Sound Level dB: Heating (Turbo/High/Med/Low/Quiet)	44/38/33/28/26	48/41/37/33/30	49/43/42/37/35
	Auto Up-Down Louver	Yes	Yes	Yes
	Auto Left-Right Louver	No	No	No
	Drain Pipe Size O.D in	5/8	5/8	5/8
	Dimension: H x W x D in (mm)	23 5/8 x 27 1/2 x 8 3/4 (600 x 700 x 220)	23 5/8 x 27 1/2 x 8 3/4 (600 x 700 x 220)	23 5/8 x 27 1/2 x 8 3/4 (600 x 700 x 220)
	Weight (Net/Ship) - lbs (kg)	32.6/43.2 (14.8/19.6)	32.6/43.2 (14.8/19.6)	32.6/43.2 (14.8/19.6)
	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	1/4	1/4	1/4
	Suction O.D. in	3/8	3/8	1/2
	Factory Charge Oz	36.5	36.5	45.9
	Maximum Line Length Ft / m	66/20	66/20	83/25
	Maximum Height Ft / m	33/10	33/10	50/15

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

1. SPECIFICATIONS

NOTE

Our continued commitment to quality products may mean a change in specifications without notice.
Visit GEAppliancesAirandWater.com to access current specification tables online.



	Outdoor Unit	1Q09FF2BEA	1Q12FF2BEA	1Q18FF2BEA	1Q24FF2BEA	1Q3036FF2BEA	1Q3036FF2BEA
	Indoor Unit	US09MB2BEA	US12MB2BEA	US18MB2BEA	US24MB2BEA	US30MB2BEA	US36MB2BEA
Cooling	Rated Capacity Btu/hr	9,000	12,000	17,000	24,000	30,000	33,000
	Capacity Range Btu/hr	3,100-11,000	3,400-13,000	4,500-19,000	4,500-26,000	6,000-31,000	6,000-33,500
	SEER2	17.8	17	17.3	18	17	16
	EER2	11.7	10.3	10.8	10	10.3	9.5
	Moisture Removal Pt./hr	2.5	2.7	3.6	4.9	5.2	8
Heating	Rated Heating Capacity 47°F Btu/hr	10,000	13,000	19,000	24,800	32,000	36,000
	Heating Capacity Range Btu/hr	3,100-11,000	3,200-14,000	4,000-20,000	4,000-26,000	6,500-32,500	6,500-37,000
	HSPF2 (IV)	9.4	9.4	9	9.4	9.4	9
	Rated Heating Capacity 5°F Btu/hr	8,000	9,100	15,200	20,000	25,000	25,200
	Heating Capacity at 5°F / Capacity at 47°F	77%	70%	79%	81%	79%	70%
	COP 5°F	1.8	1.8	1.8	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)	23~115°F (-5~46°C)	23~115°F (-5~46°C)	23~115°F (-5~46°C)
	Cooling (With Wind Baffle or Top Cover)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)	-40~115°F (-40~46°C)
	Heating	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)	-15~75°F (-26~24°C)
Power Supply	Voltage, Cycle, Phase (V/Hz/-)	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
	Maximum Fuse Size A	10	10	20	30	35	35
	Minimum Circuit Amp A	9	9	15	20	25	25
Outdoor Unit	Compressor Type	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary	DC Inverter Rotary
	Outdoor Noise Level dB	55	55	58	61	64	64
	Dimension: H x W x D in (mm)	21 3/4 x 34 x 11 (553 x 863 x 280)	21 3/4 x 34 x 11 (553 x 863 x 280)	25 1/4 x 35 3/8 x 12 (642 x 898 x 306)	32 1/8 x 40 3/8 x 14 5/8 (815 x 1024 x 370)	32 1/8 x 40 3/8 x 14 5/8 (815 x 1024 x 370)	32 1/8 x 40 3/8 x 14 5/8 (815 x 1024 x 370)
	Weight (Net/Ship) - lbs (kg)	70.17/82.96 (31.8/37.6)	70.17/82.96 (31.8/37.6)	90.47/103.26 (41/46.8)	121.36/147.84 (55/67)	147.84/166.59 (67/75.5)	147.84/166.59 (67/75.5)
	Basepan Heater	Yes	Yes	Yes	Yes	Yes	Yes
Indoor Unit	Fan Speed Stages	5 + Auto	5 + Auto	5 + Auto	5 + Auto	5 + Auto	5 + Auto
	Airflow CFM: Cooling (Turbo/High/Med/Low/Quiet)	353/286/200/150/141	409/350/308/158/148	620/517/332/214/203	927/844/667/564/482	1236/1130/953/812/688	1236/1130/953/812/688
	Airflow CFM: Heating (Turbo/High/Med/Low/Quiet)	358/292/208/155/145	412/355/311/163/152	627/523/337/217/205	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)	44/43/38/35/34	44/43/38/35/34	49/46/42/39/38	47/46/41/38/37	47/46/42/39/36	47/46/42/39/36
	Indoor Sound Level dB: Heating (Turbo/High/Med/Low/Quiet)	44/43/38/36/35	44/43/38/35/35	48/45/41/39/37	46/45/40/38/36	48/47/41/38/35	48/47/41/38/35
	Dimension: H x W x D in (mm)	9 3/4 x 31 3/4 x 27 1/2 (248 x 805 x 700)	9 3/4 x 31 3/4 x 27 1/2 (248 x 805 x 700)	9 3/4 x 47 1/2 x 27 1/2 (248 x 1207 x 700)	9 3/4 x 47 1/2 x 27 1/2 (248 x 1207 x 700)	9 3/4 x 59 x 27 1/2 (248 x 1500 x 700)	9 3/4 x 59 x 27 1/2 (248 x 1500 x 700)
	Weight (Net/Ship) - lbs (kg)	62.17/86.86 (28.2/39.4)	62.17/86.86 (28.2/39.4)	87.74/123.46 (39.8/56)	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*	1*	1*	1*
	Max. External Static Pressure in.W.G (Pa)	0.6 (150)	0.6 (150)	0.6 (150)	0.6 (150)	0.6 (150)	0.6 (150)
	Condensate Pump	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
	Max. Drain-lift height in (mm)	27 1/2 (700)	27 1/2 (700)	27 1/2 (700)	27 1/2 (700)	27 1/2 (700)	27 1/2 (700)
	Factory-Installed Refrigerant Detection Sensor (RDS)	Yes	Yes	Yes	Yes	Yes	Yes
	WiFi**	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
Refrigerant Lines	Refrigerant	R454B	R454B	R454B	R454B	R454B	R454B
	Connections	Flare	Flare	Flare	Flare	Flare	Flare
	Liquid O.D. in	1/4	1/4	1/4	3/8 (use 1/4" to 3/8" adapter shipped with outdoor unit)	3/8	3/8
	Suction O.D. in	3/8	3/8	1/2	5/8 (use 1/2" to 5/8" adapter shipped with outdoor unit)	3/4 (use 5/8" to 3/4" adapter shipped with outdoor unit)	3/4 (use 5/8" to 3/4" adapter shipped with outdoor unit)
	Factory Charge Oz	36.5	36.5	45.86	67.02	88.18	88.18
	Maximum Line Length Ft / m	66/20	66/20	83/25	165/50	165/50	165/50
	Maximum Height Ft / m	33/10	33/10	50/15	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.

31-5001134 12-25

SPECIFICATIONS

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.

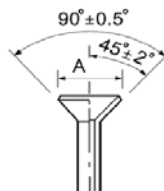
(2.1.2) Toxicity

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

2.2 Installation Requirements

(2.2.1) 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.

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	

- 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).

2.3 Electrical Requirements

(2.3.1) 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.

(2.3.2) 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.

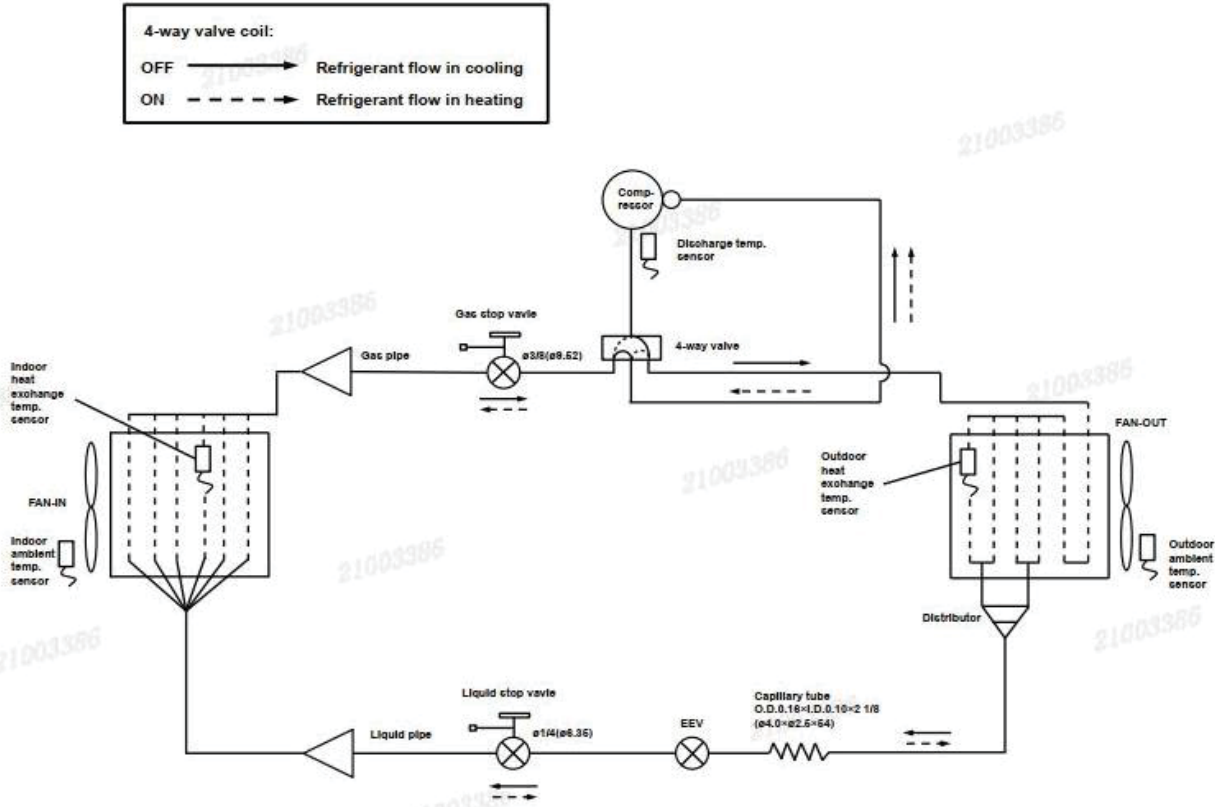
2.4 Refrigerant System Diagrams

1Q09FF2BEA/QS09WB2BEA

1Q12FF2BEA/QS12WB2BEA

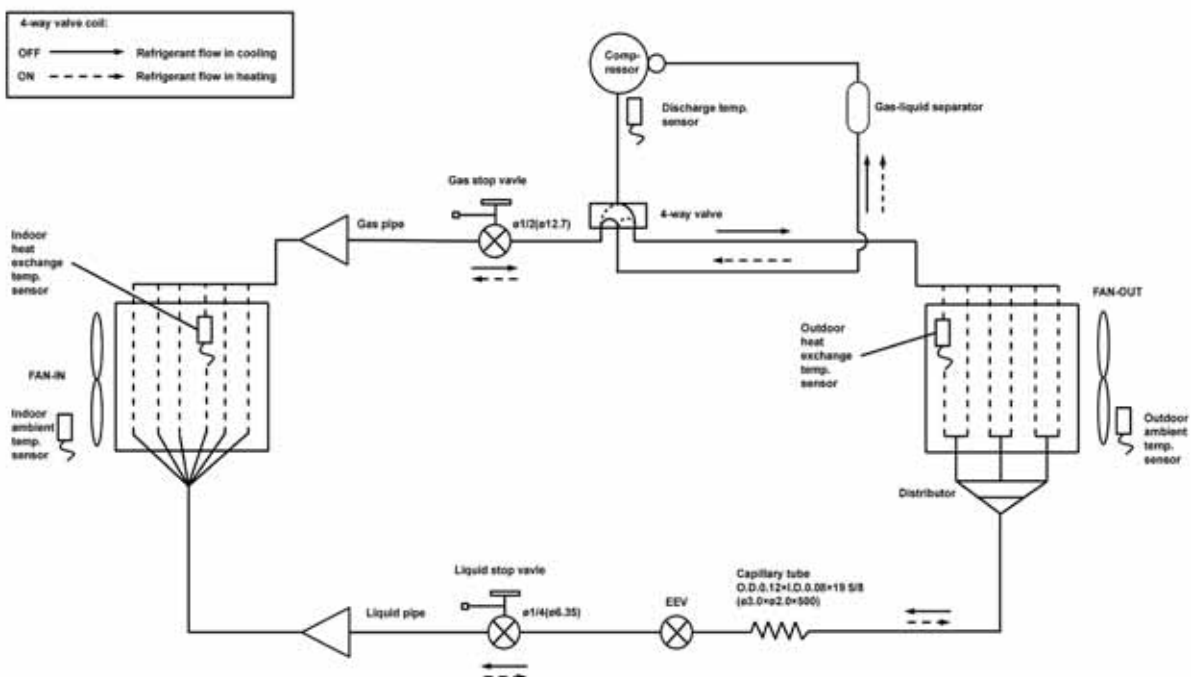
1Q12FF2BEA/QS18WB2BEA

1Q12FF2BEA/OS24WB2BEA



1Q30FF2BEA/QS30WB2BEA

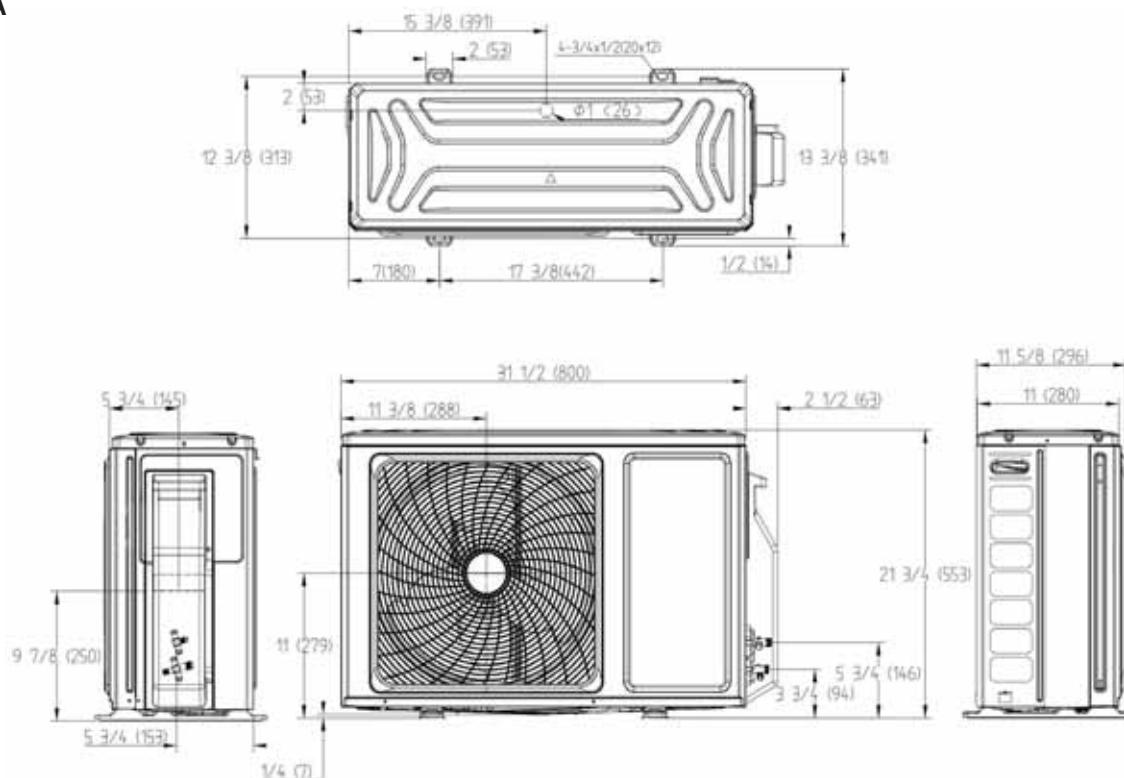
1Q36FF2BEA/QS36WB2BEA



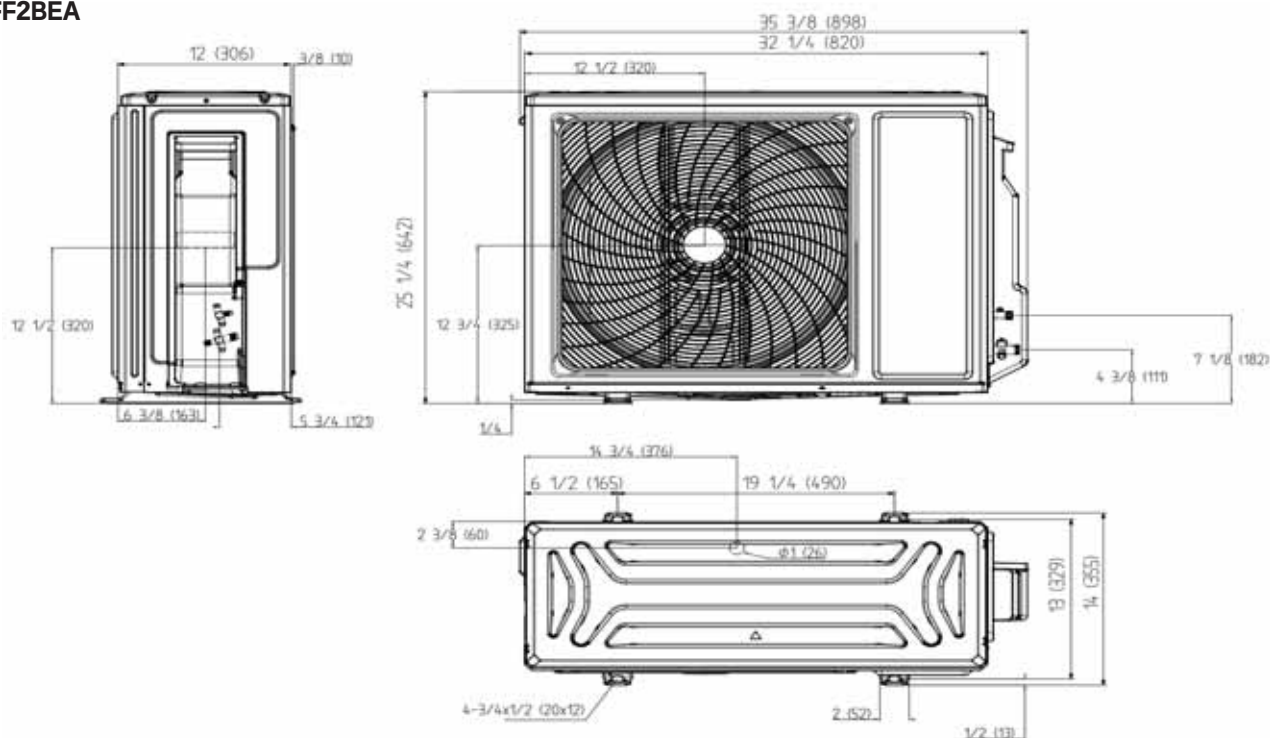
3. OUTDOOR UNITS

3.1 Dimensions

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1Q12FF2BEA

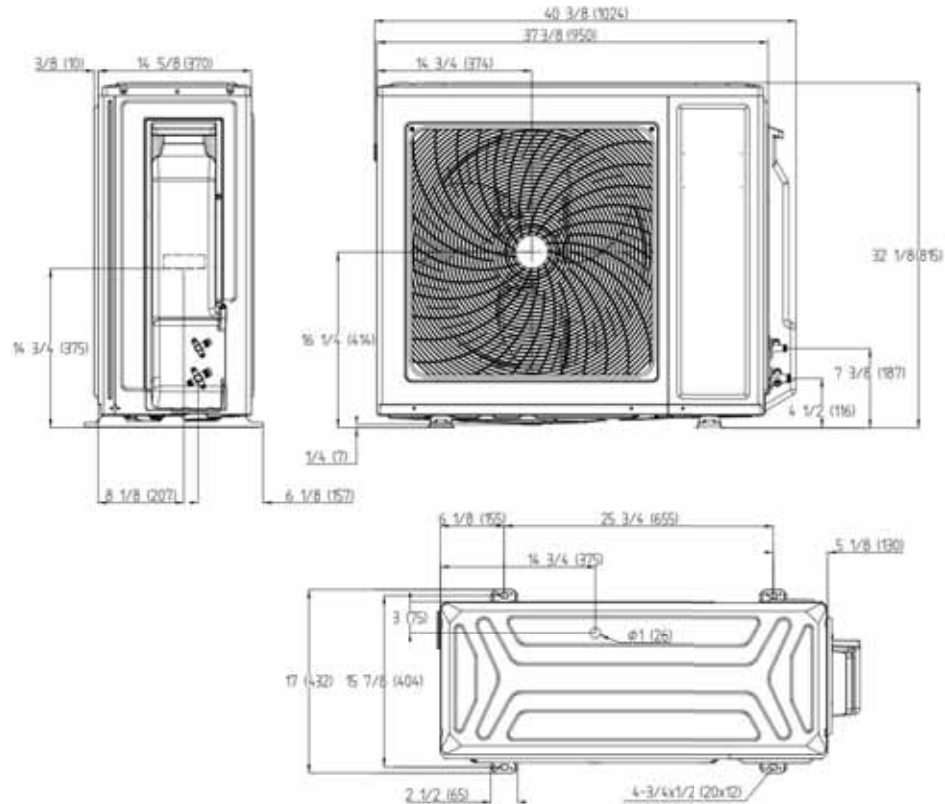


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1Q18FF2BEA



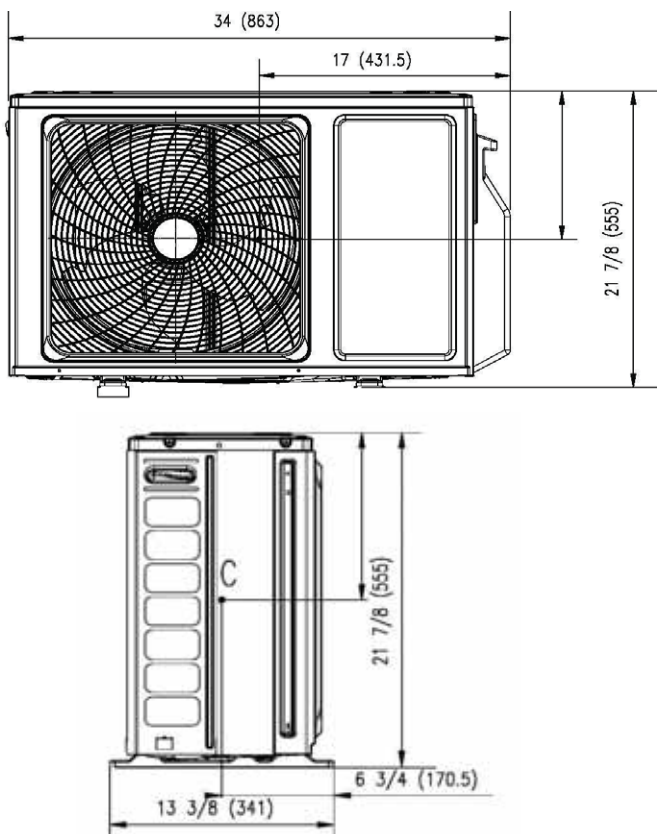
3. OUTDOOR UNITS

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1Q30FF2BEA
1Q36FF2BEA

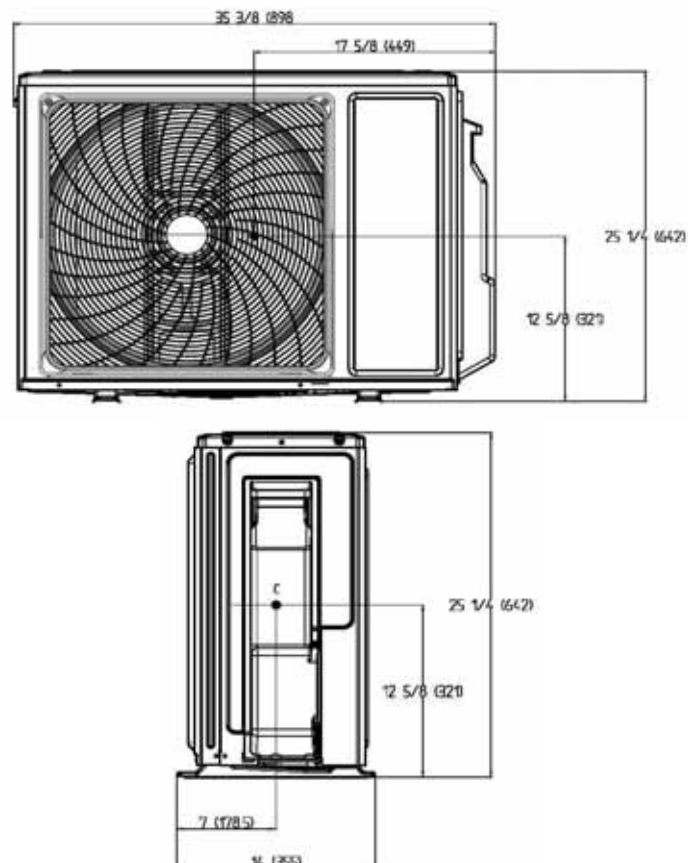


3.2 Center of Gravity

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1Q12FF2BEA

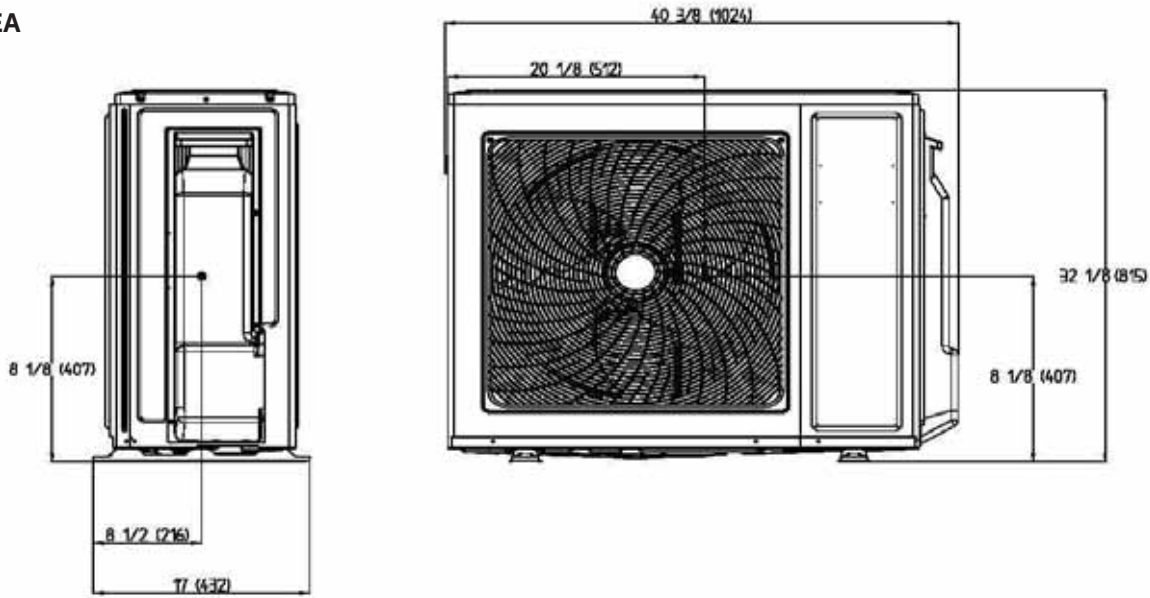


1Q15FF2BEA
1Q18FF2BEA



3. OUTDOOR UNITS

1Q24FF2BEA
1Q30FF2BEA
1Q36FF2BEA



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)
1Q09FF2BEA	55	3.28
1Q12FF2BEA	55	3.28
1Q15FF2BEA	58	3.28
1Q18FF2BEA	58	3.28
1Q24FF2BEA	61	3.28
1Q30FF2BEA	64	3.28
1Q36FF2BEA	64	3.28

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. OUTDOOR UNITS

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 25 feet of lineset.
- D. The coils have passed 1,000 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 RM68EH 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. The base pan shall be constructed of commercial grade DC51/DC52 hot-dip galvanized steel with coating.

(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:#4x1/4in Phillips Pan Head Zinc Plated Sheet Metal Screw.

(3.5.10) Defrost

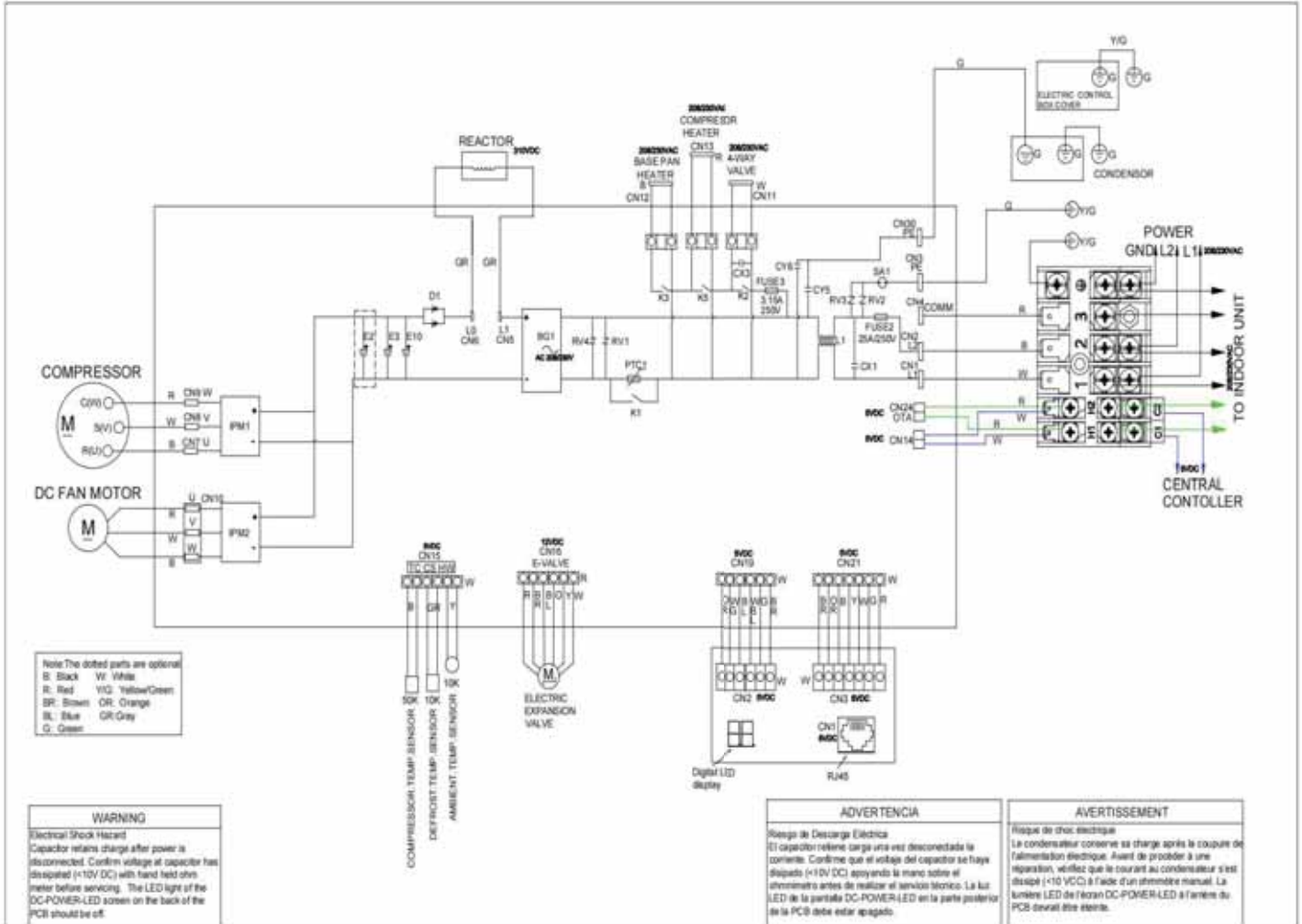
- A. The outdoor unit shall have a reverse-cycle (hot gas) defrost system to maximize heat pump operation and minimize energy consumption.

(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.

3. OUTDOOR UNITS

3.6 Wiring Diagrams

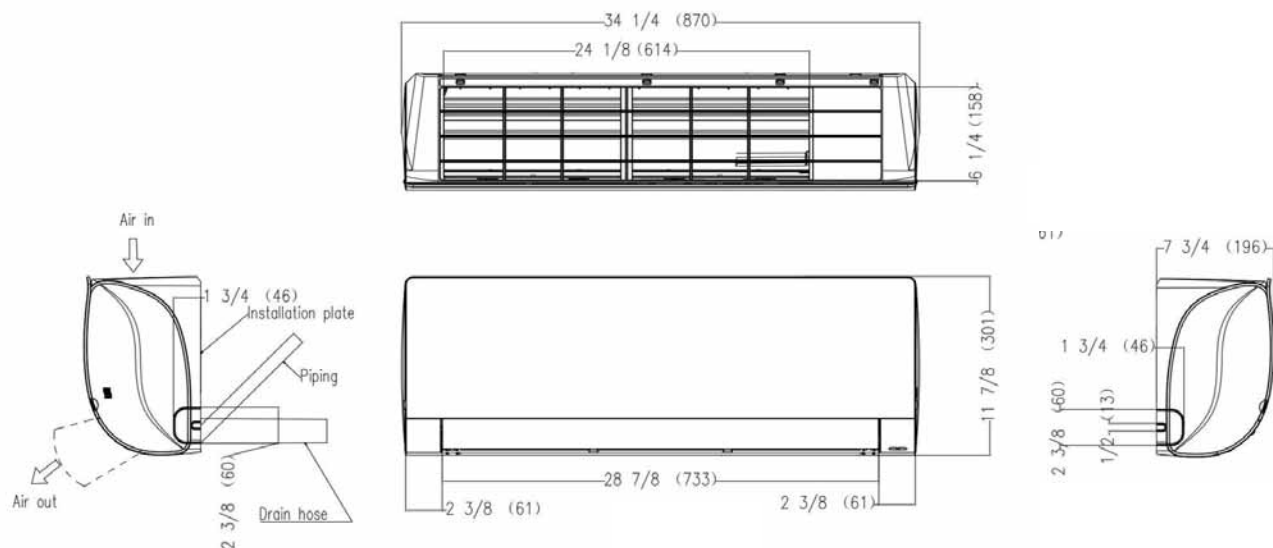


4. HIGHWALL INDOOR UNITS

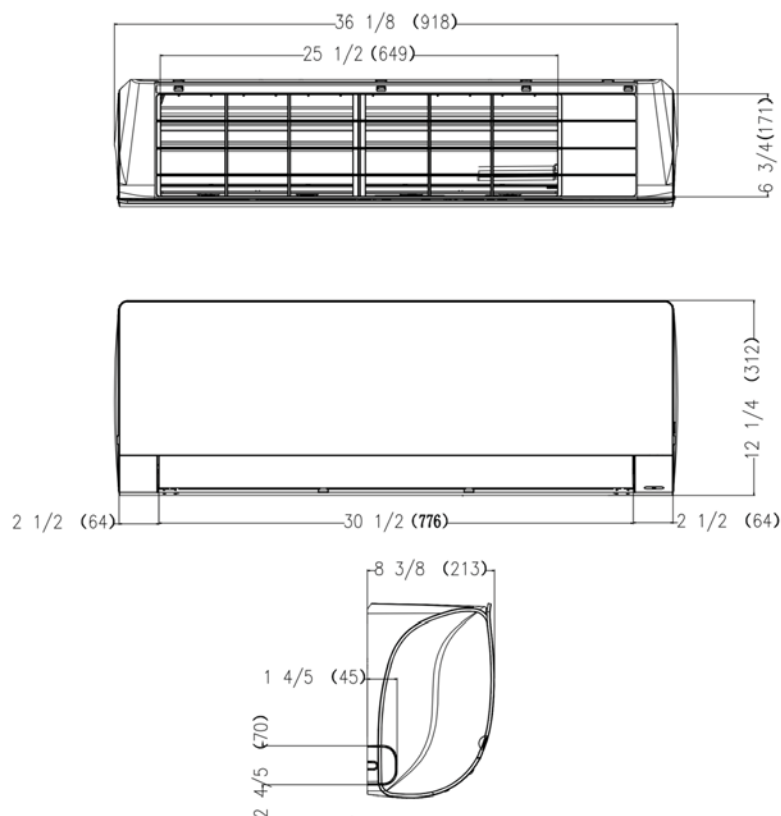
4.1 Dimensions

QS09WB2BEA

QS12WB2BEA

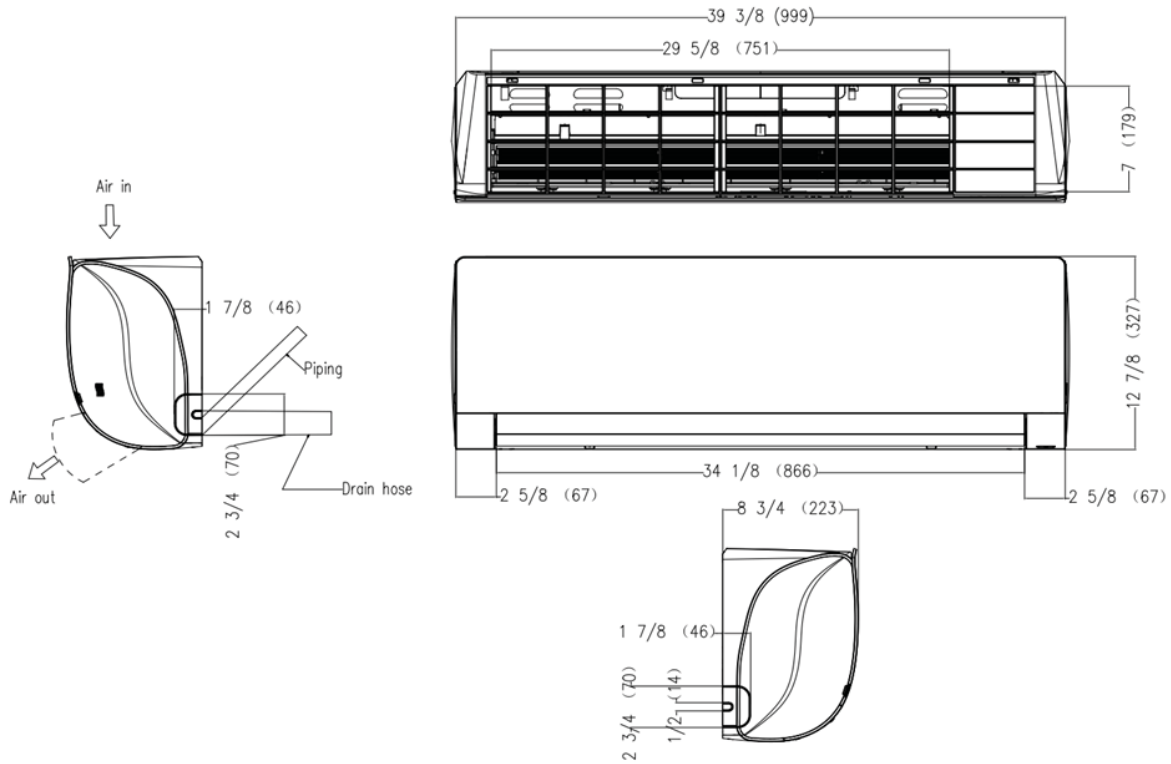


QS15WB2BEA

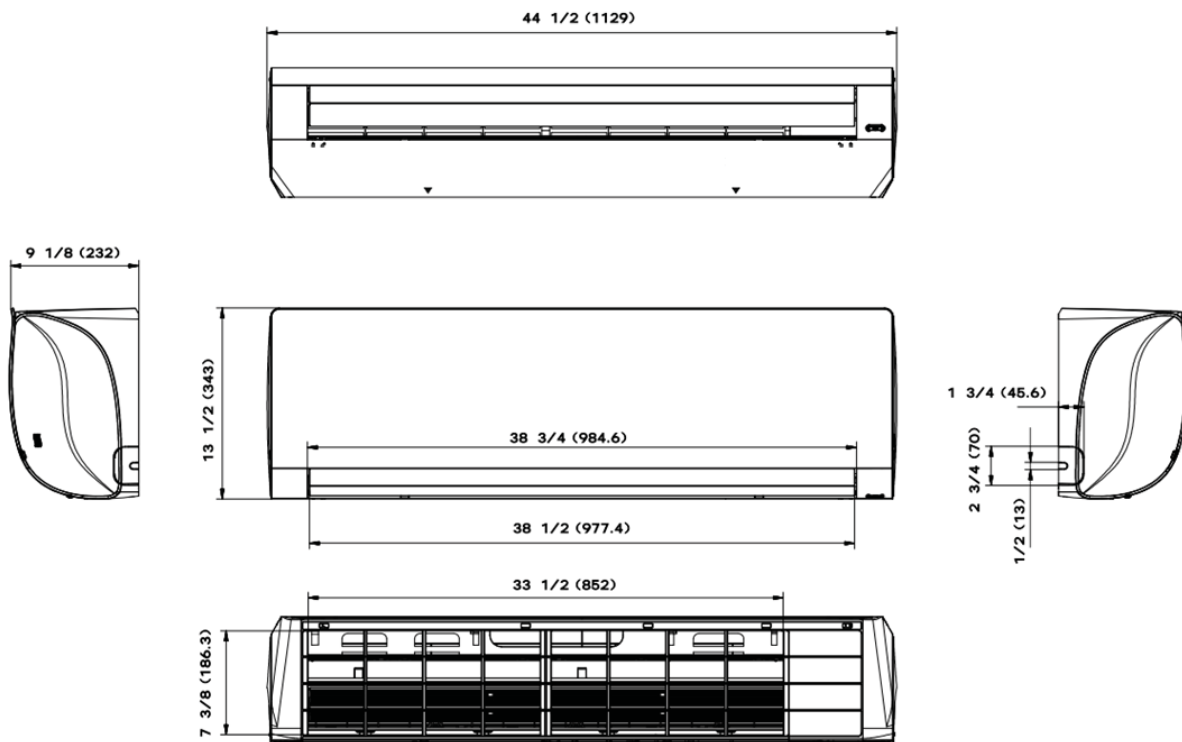


4. HIGHWALL INDOOR UNITS

QS18WB2BEA

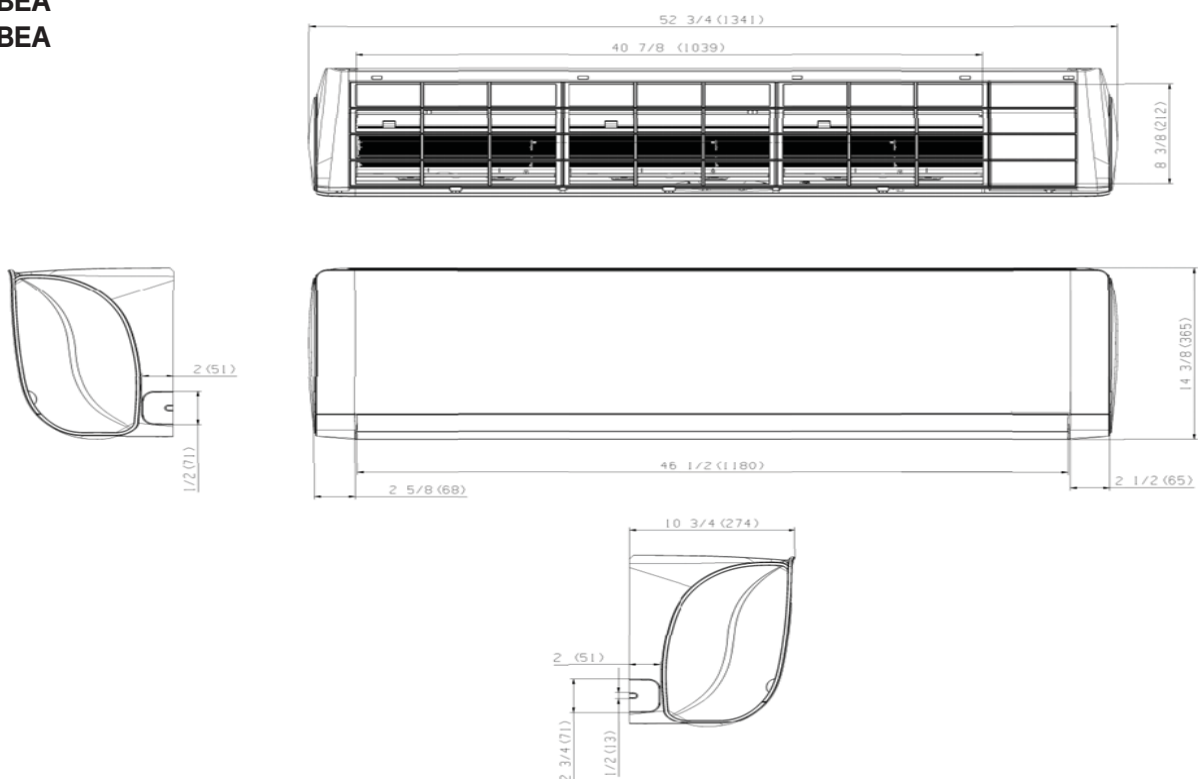


QS24WB2BEA



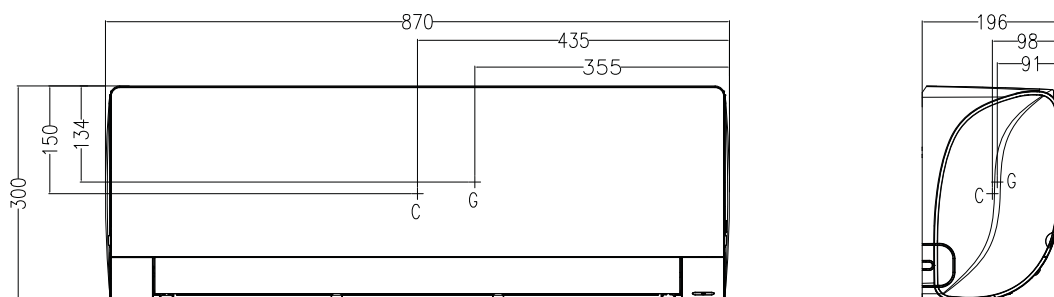
4. HIGHWALL INDOOR UNITS

QS30WB2BEA
QS36WB2BEA

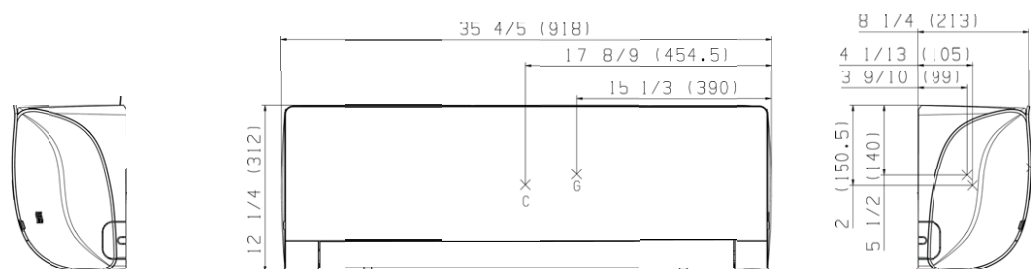


4.2 Center of Gravity

QS09WB2BEA
QS12WB2BEA

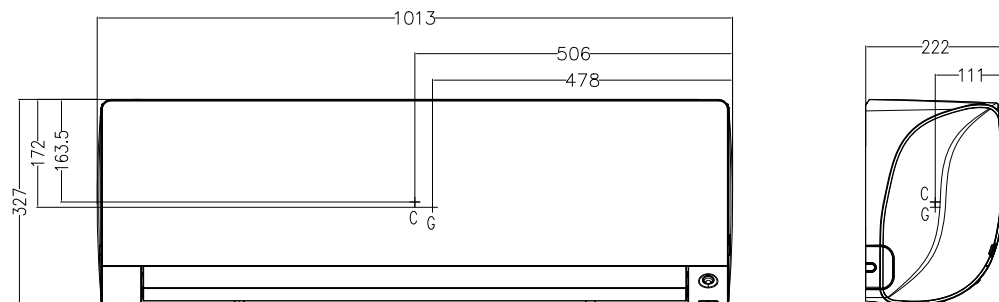


QS15WB2BEA

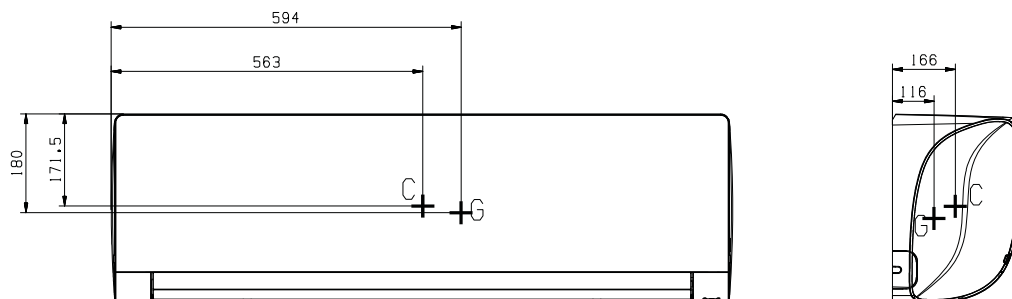


4. HIGHWALL INDOOR UNITS

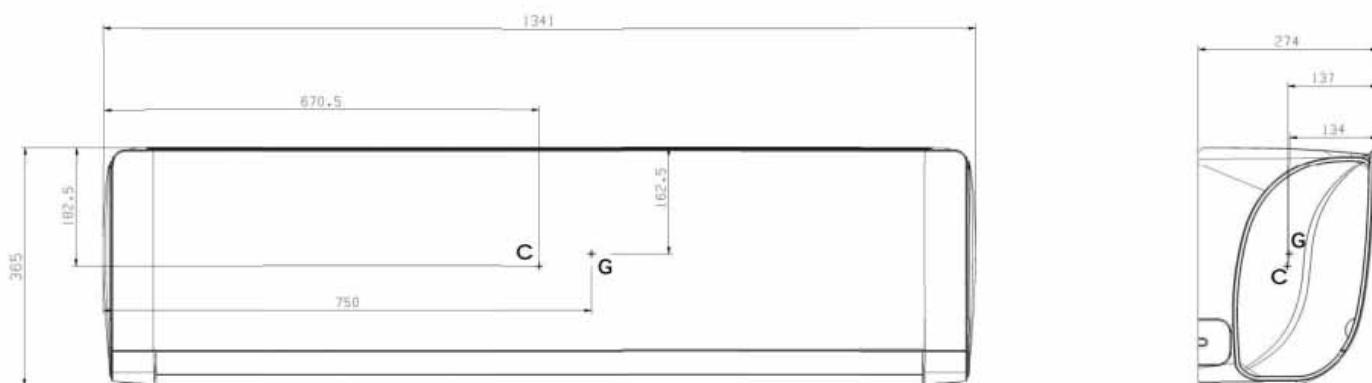
QS18WB2BEA



QS24WB2BEA



QS30WB2BEA QS36WB2BEA



4. HIGHWALL INDOOR UNITS

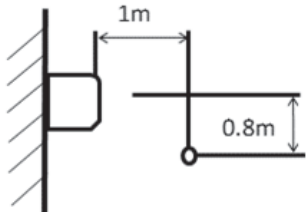
4.3 General

(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
QS09WB2BEA	44/38/35/32/27	52/46/43/40/35	
QS12WB2BEA	44/39/36/33/27	52/47/44/41/35	
QS15WB2BEA	46/45/40/37/26	54/53/48/45/34	
QS18WB2BEA	50/46/44/40/35	58/54/52/48/43	
QS24WB2BEA	54/50/47/44/38	62/58/55/52/46	
QS30WB2BEA	55/53/49/44/40	63/61/57/52/48	
QS36WB2BEA	56/54/50/44/40	64/62/58/52/48	

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)
QS09WB2BEA QS12WB2BEA QS15WB2BEA QS18WB2BEA	40
QS24WB2BEA QS30WB2BEA QS36WB2BEA	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.

(4.6.6) 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.

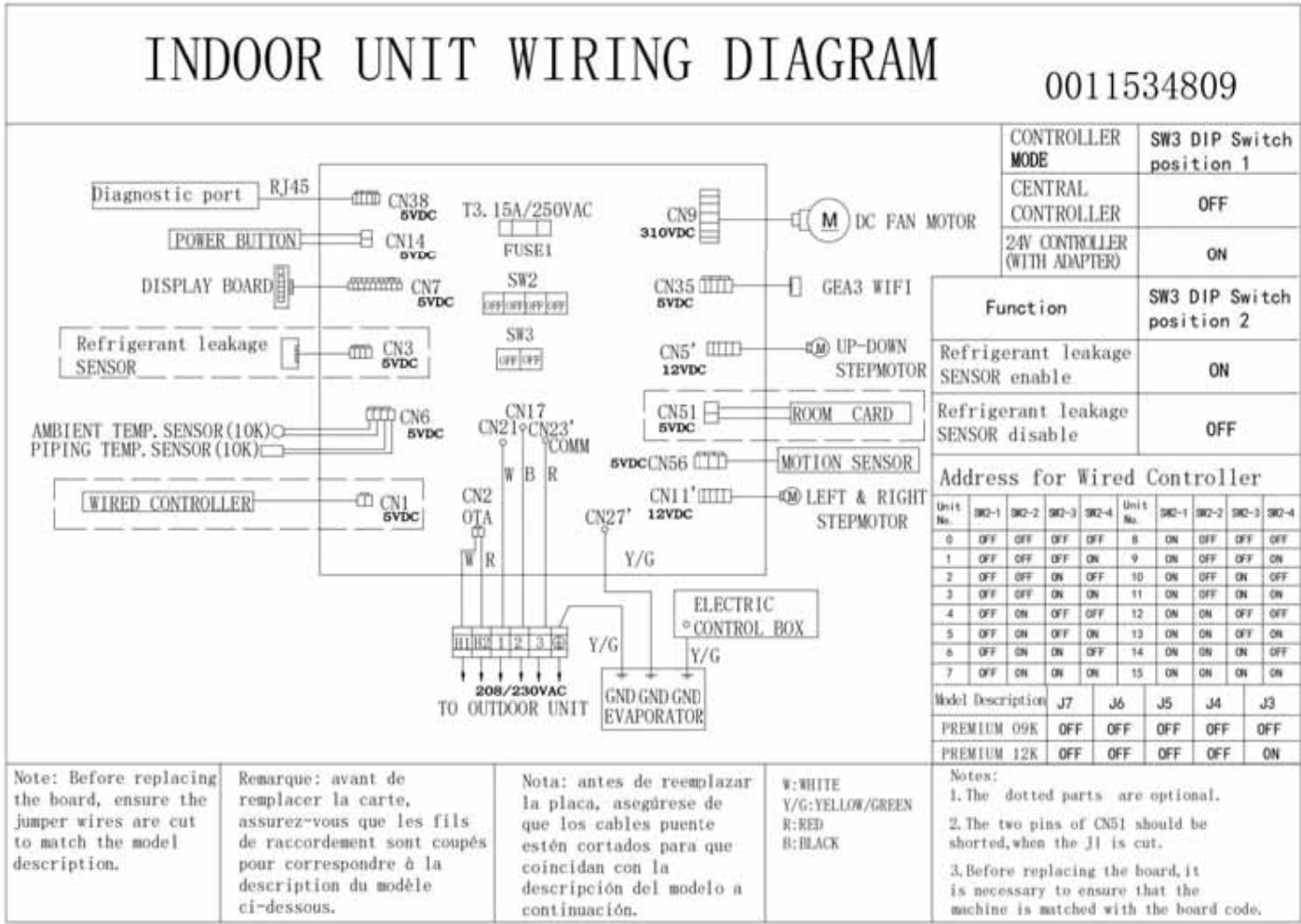
(4.6.9) Control

- 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

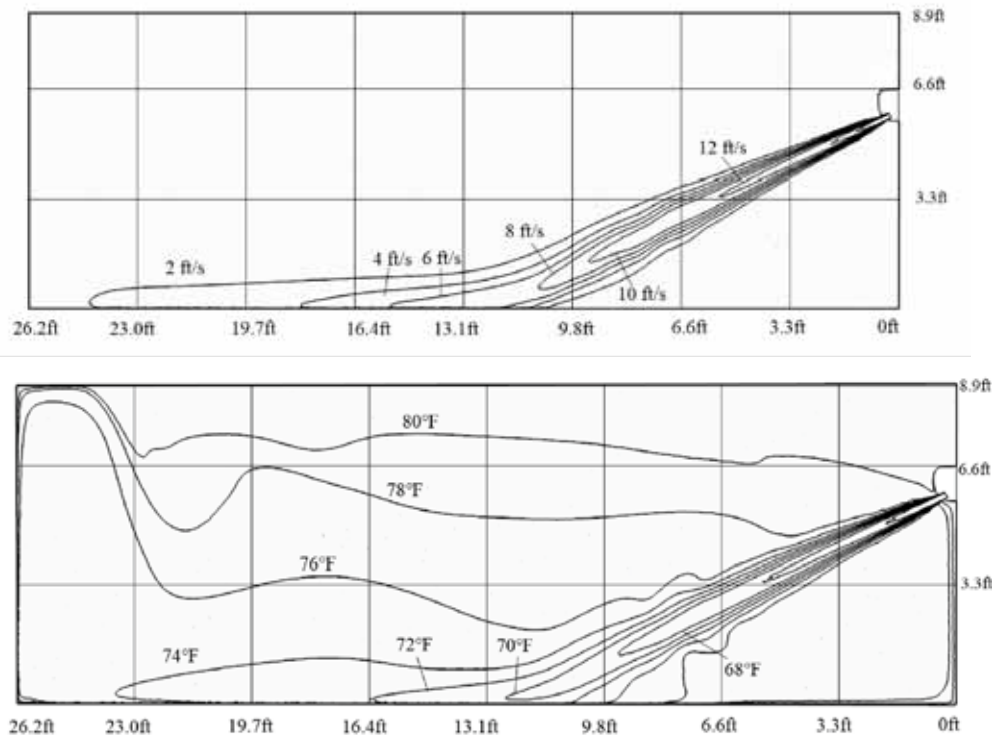


4. HIGHWALL INDOOR UNITS

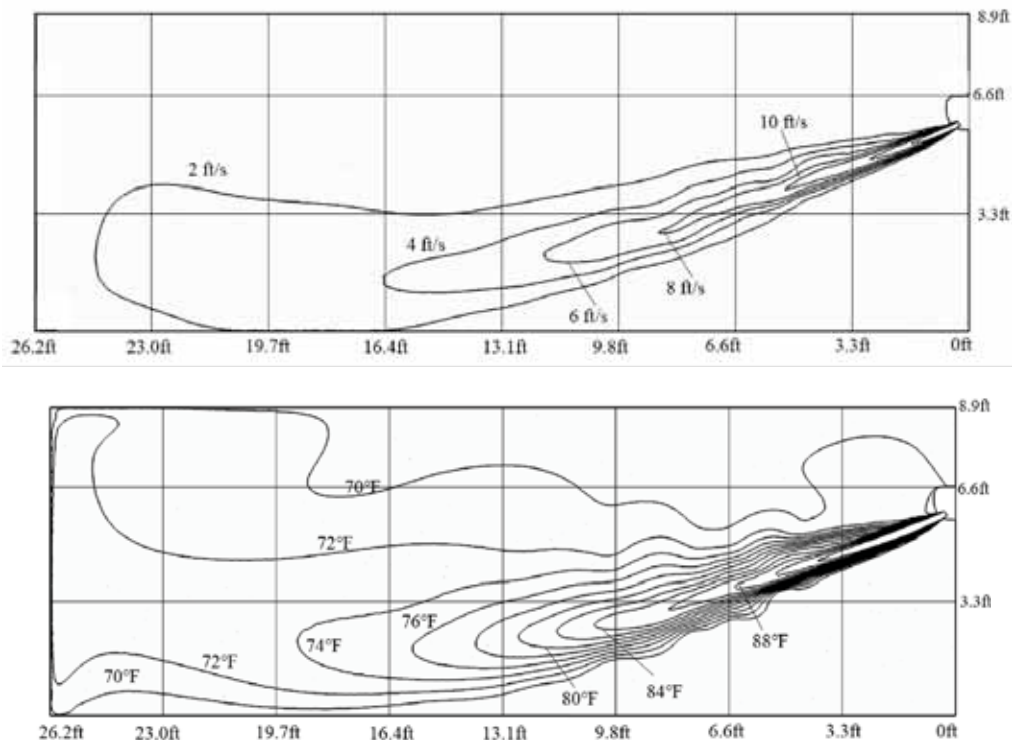
4.8 Air Velocity and Temperature Distribution

QS09WB2BEA
QS12WB2BEA

COOLING



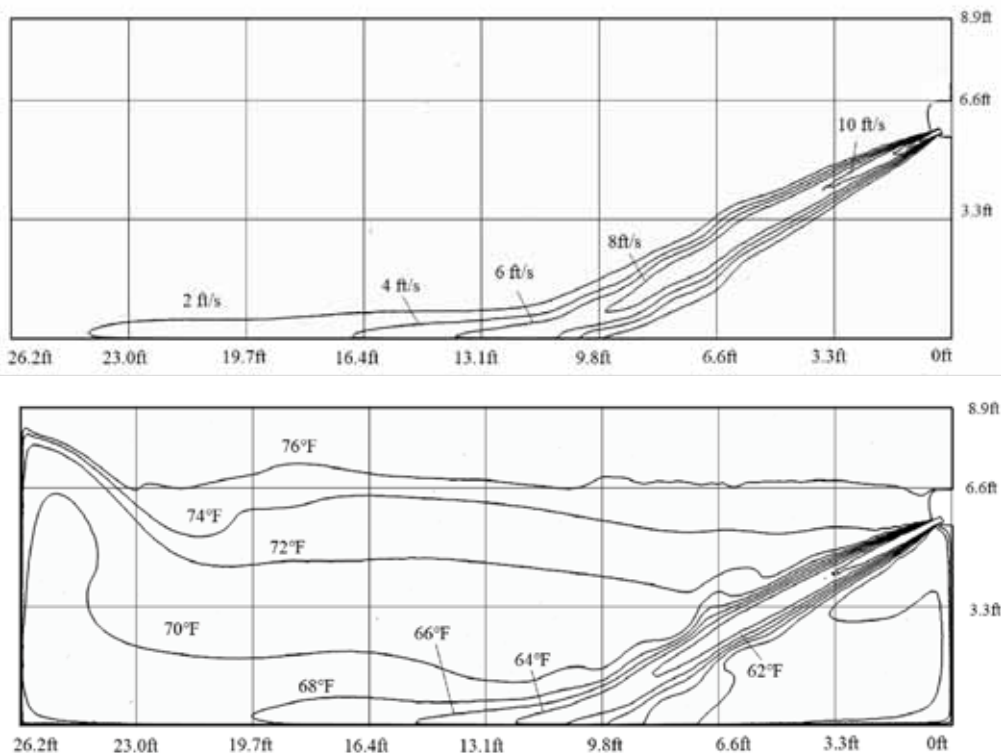
HEATING



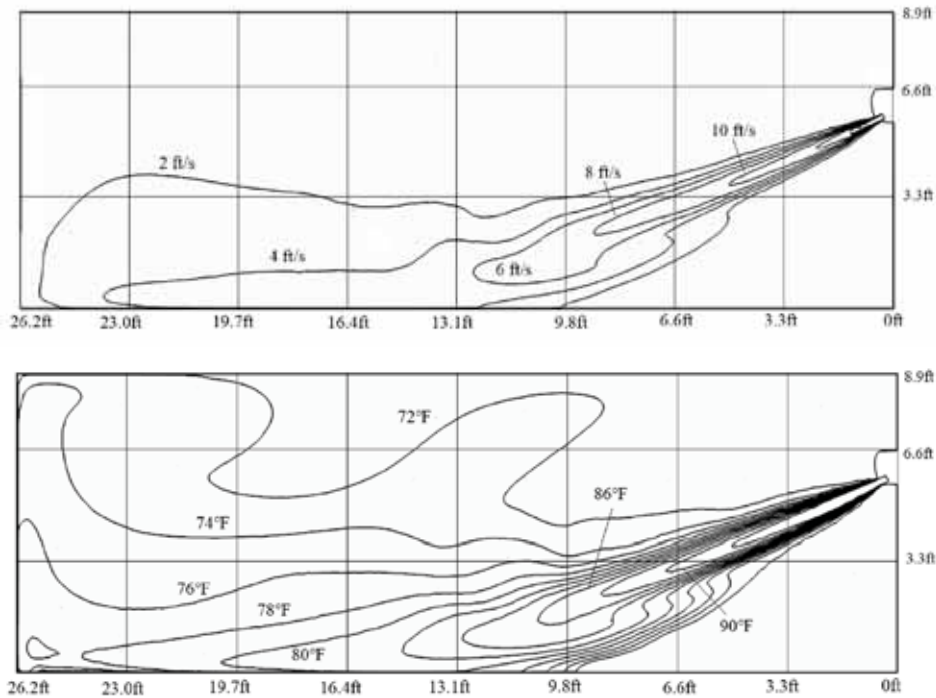
4. HIGHWALL INDOOR UNITS

QS15WB2BEA
QS18WB2BEA

COOLING



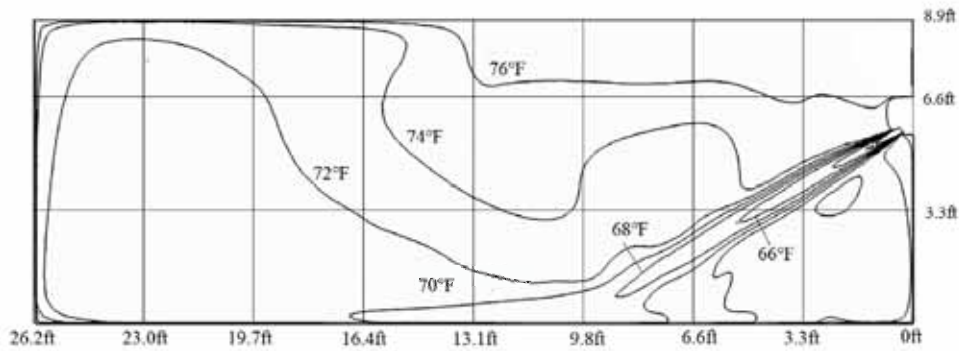
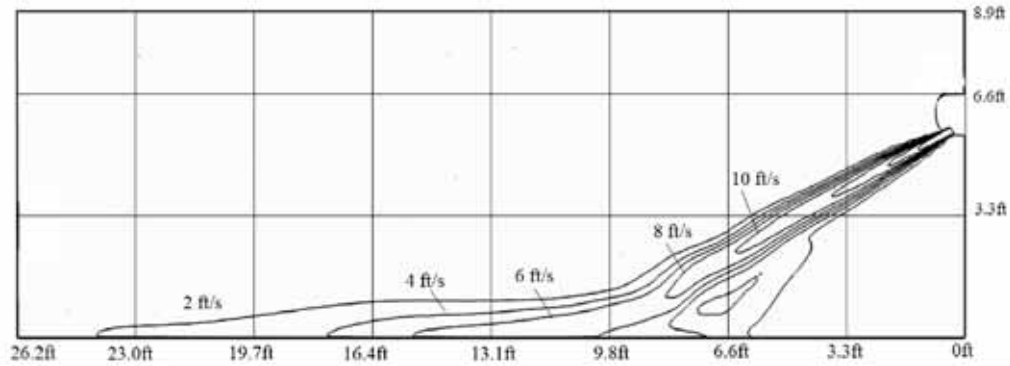
HEATING



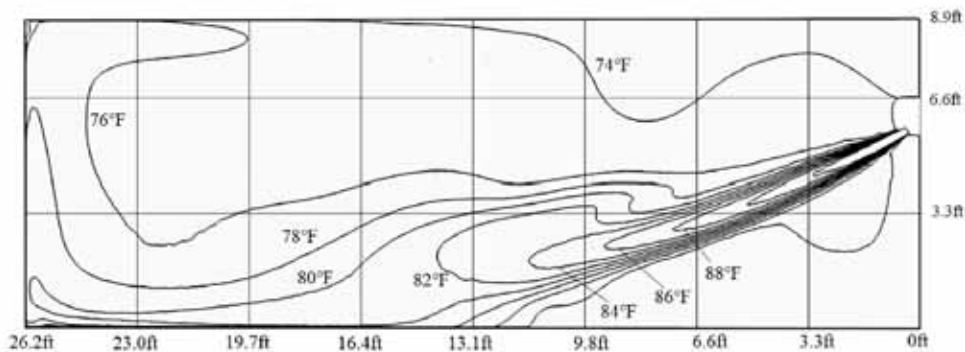
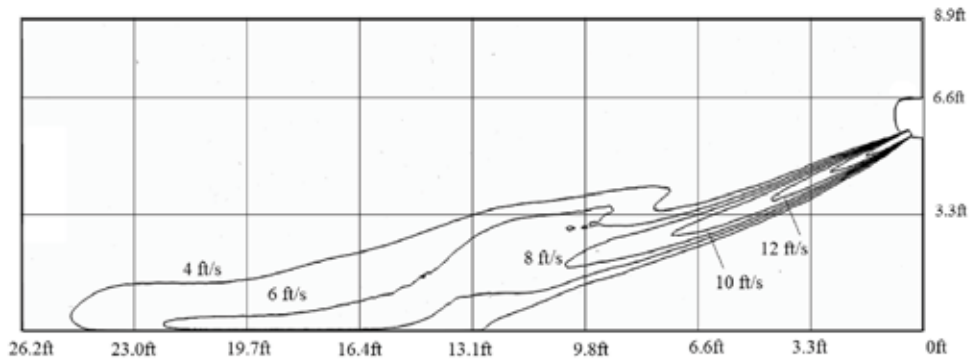
4. HIGHWALL INDOOR UNITS

QS24WB2BEA
QS30WB2BEA
QS36WB2BEA

COOLING



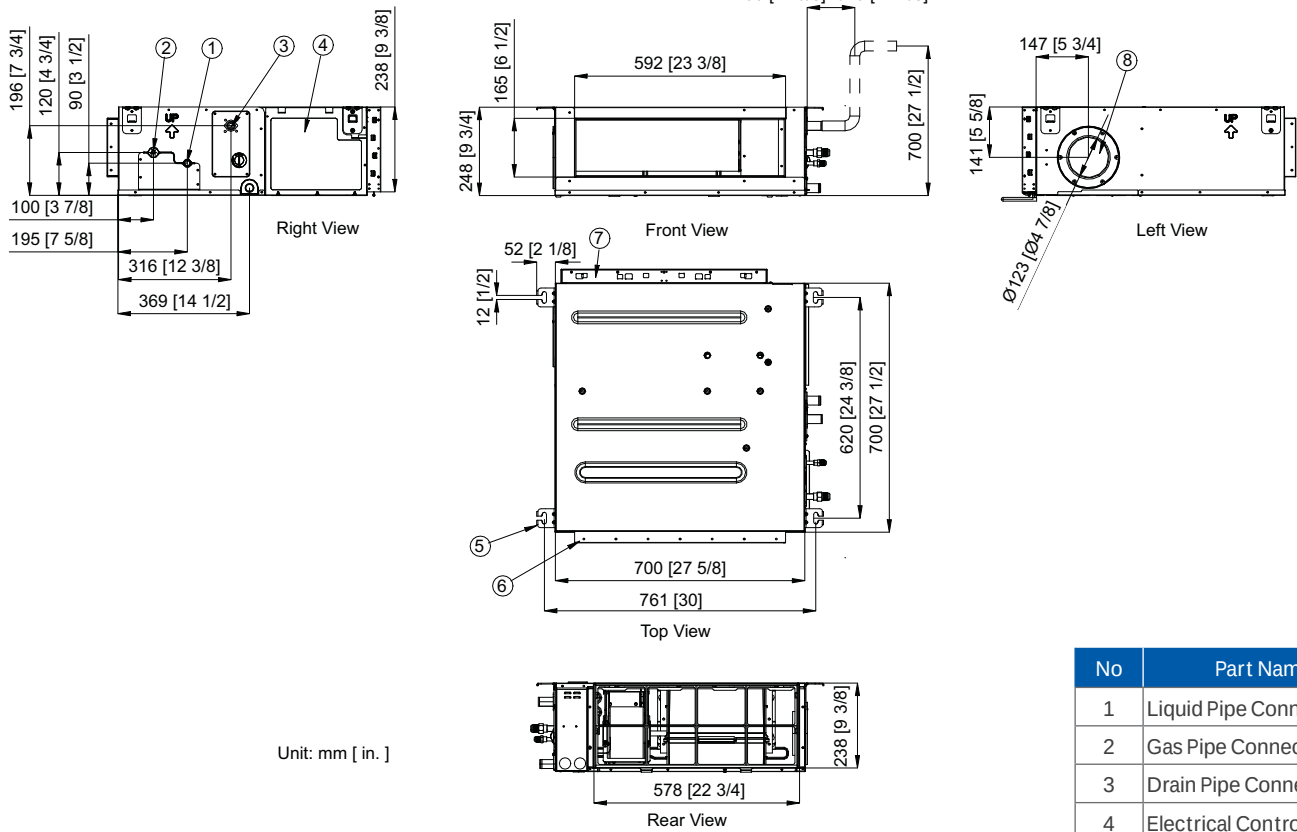
HEATING



5. DUCTED INDOOR UNITS

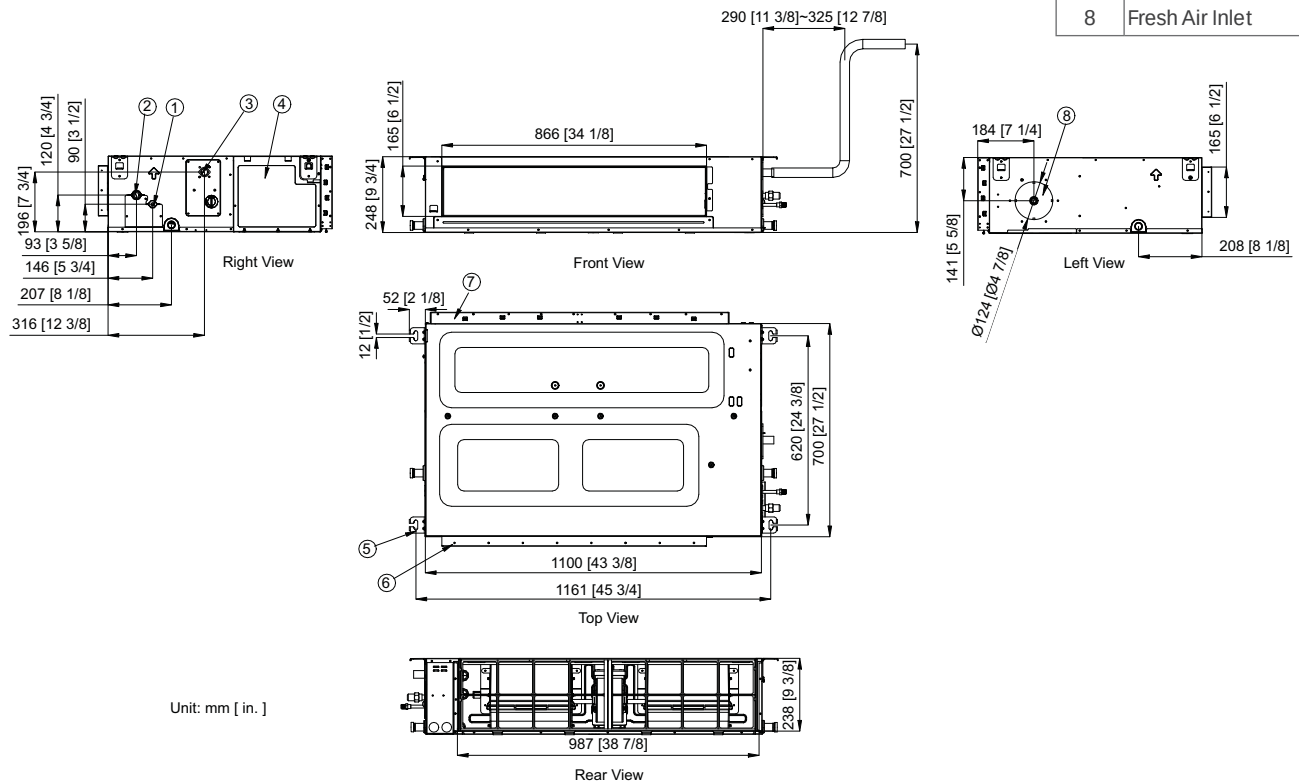
5.1 Dimensions

US09MB2BEA US12MB2BEA



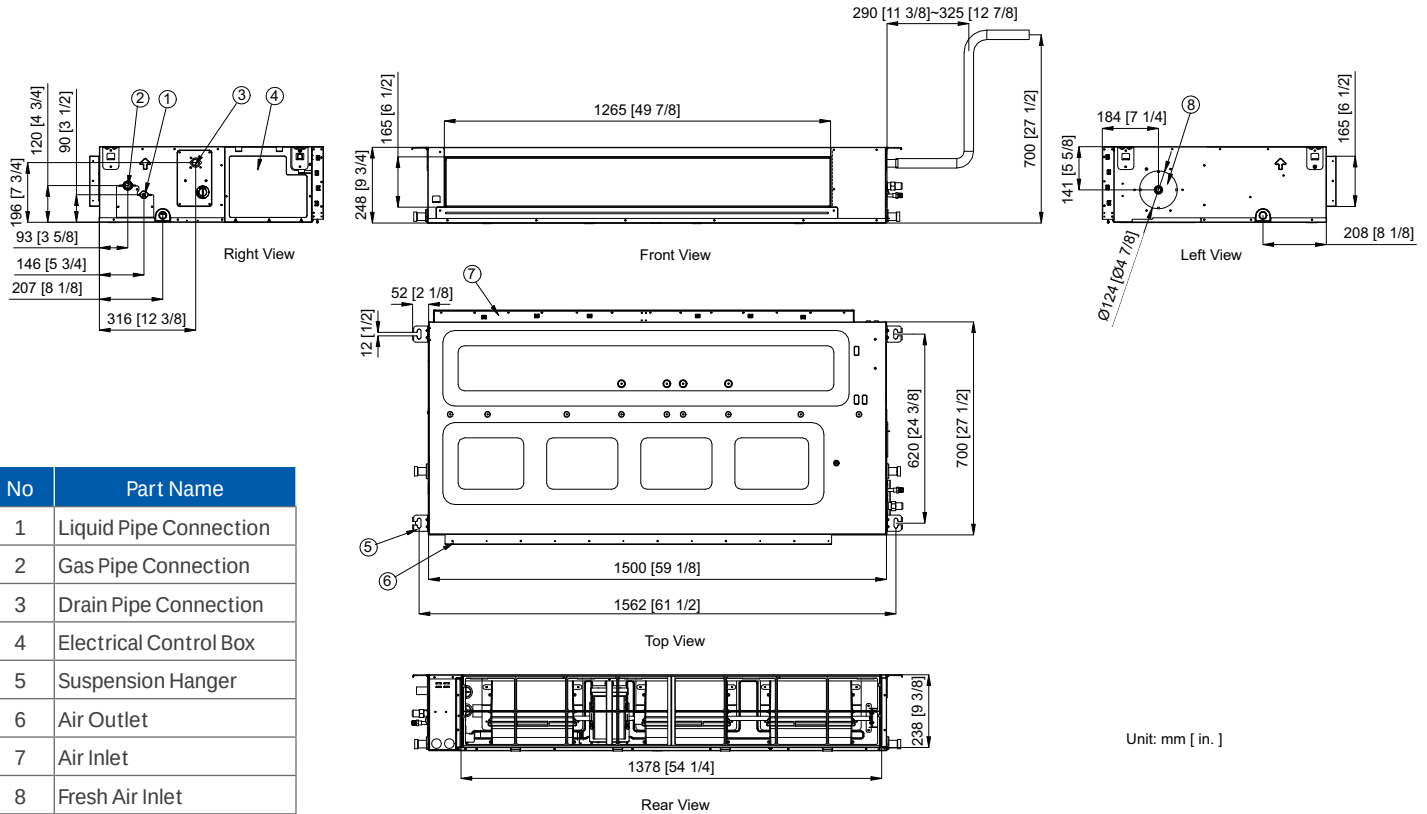
No	Part Name
1	Liquid Pipe Connection
2	Gas Pipe Connection
3	Drain Pipe Connection
4	Electrical Control Box
5	Suspension Hanger
6	Air Outlet
7	Air Inlet
8	Fresh Air Inlet

US18MB2BEA US24MB2BEA



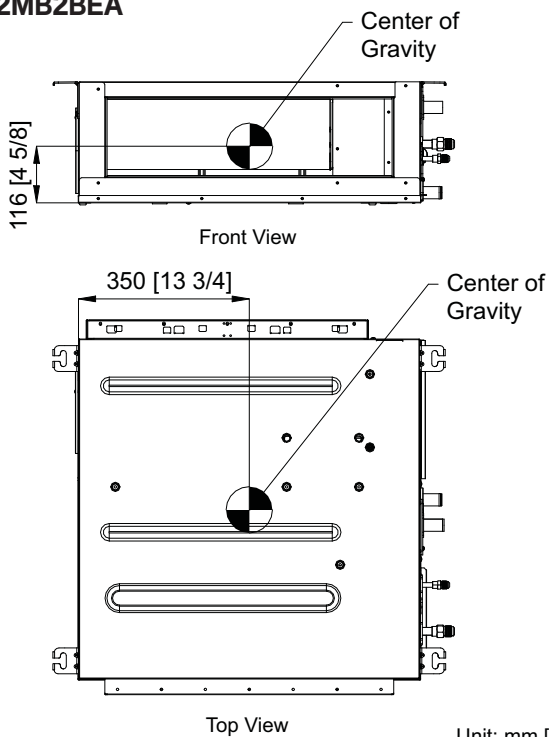
5. DUCTED INDOOR UNITS

US30MB2BEA US36MB2BEA

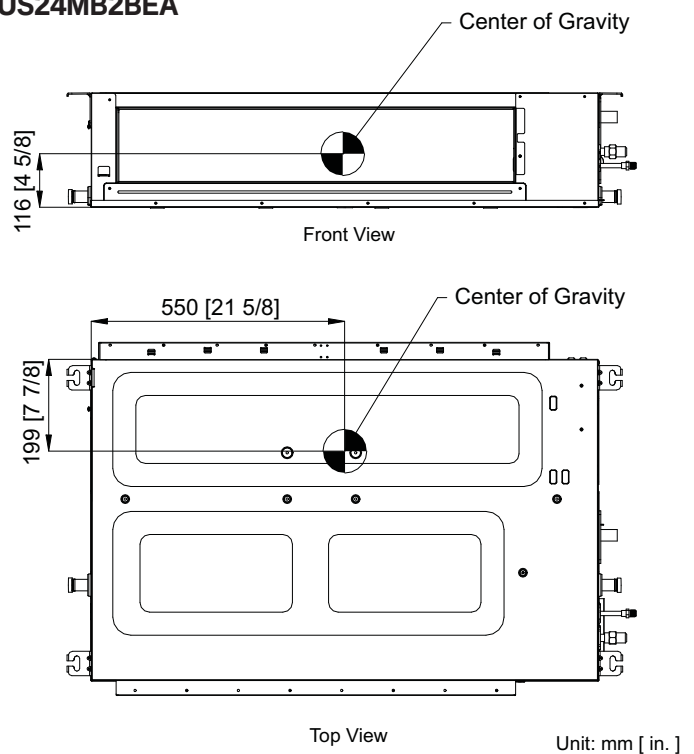


5.2 Center of Gravity

US09MB2BEA US12MB2BEA

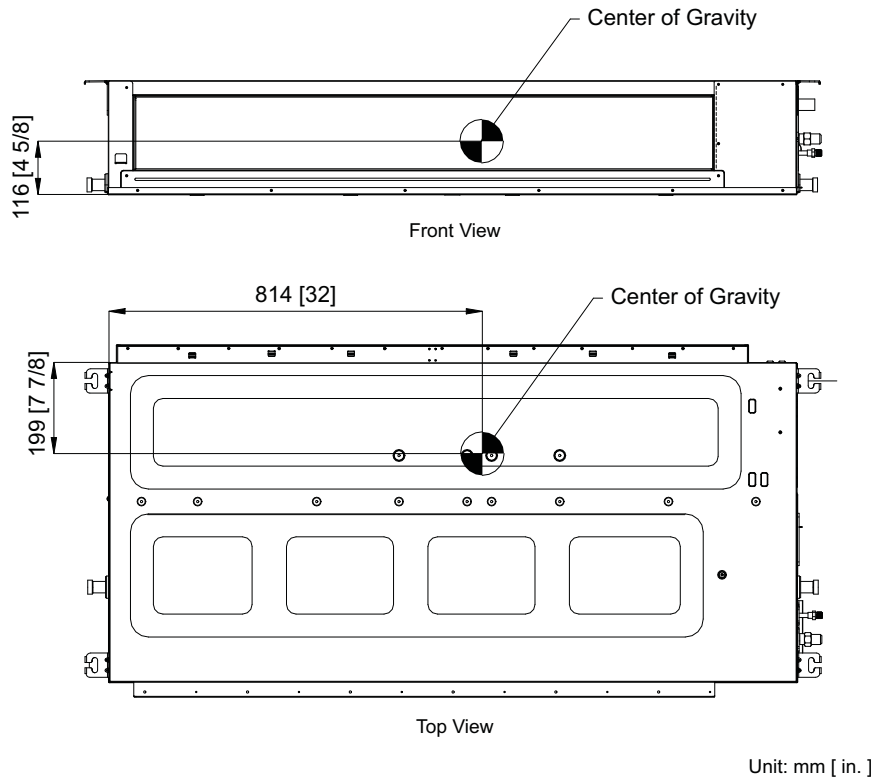


US18MB2BEA US24MB2BEA



5. DUCTED INDOOR UNITS

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)
US09MB2BEA	44/41/38/35/32	59/56/53/50/47
US12MB2BEA	47/44/41/38/35	62/59/56/53/50
US18MB2BEA	48/45/42/39/36	63/60/57/54/51
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)
US09MB2BEA	130
US12MB2BEA	
US18MB2BEA	200
US24MB2BEA	
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

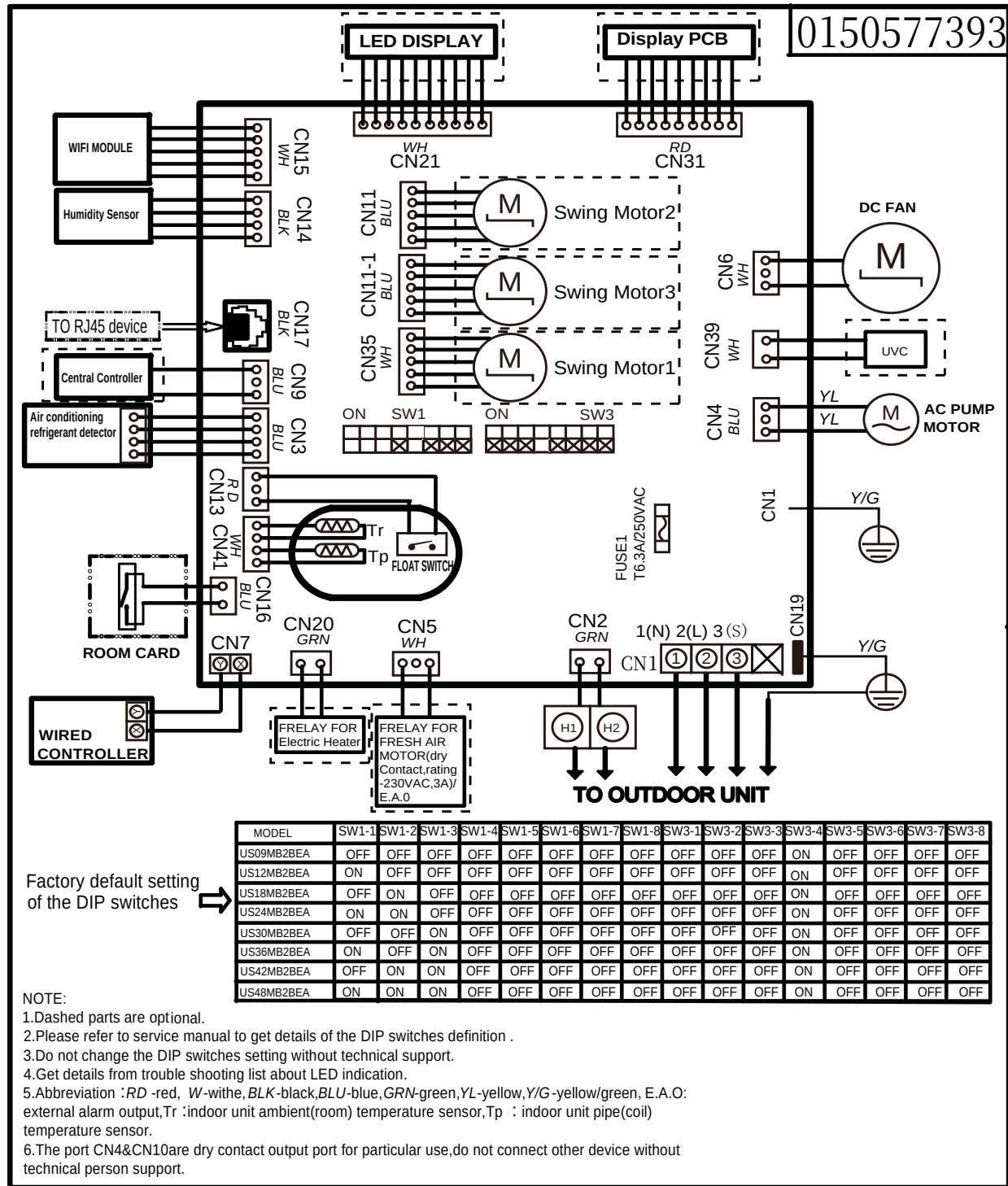
- A. The controller must be ordered separately.
- B. The ducted indoor unit shall be compatible with the Simplified Wired Controller (QACT17B).

(5.6.7) WiFi

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

5. DUCTED INDOOR UNITS

5.7 Wiring Diagrams

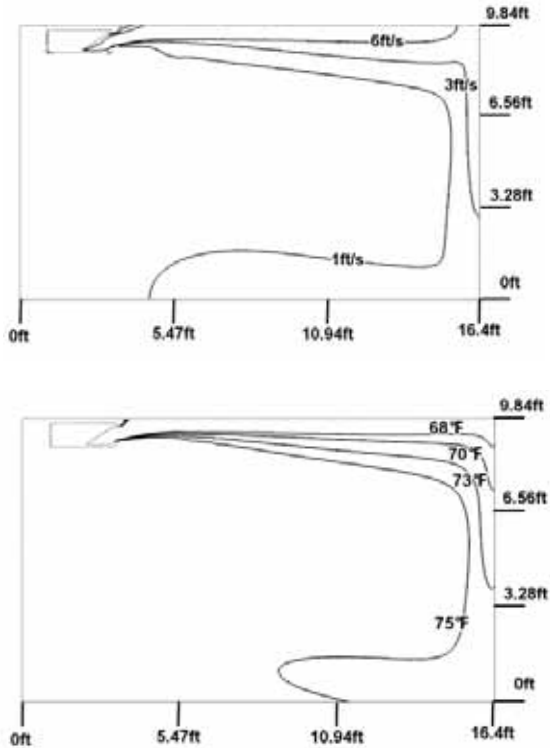


5. DUCTED INDOOR UNITS

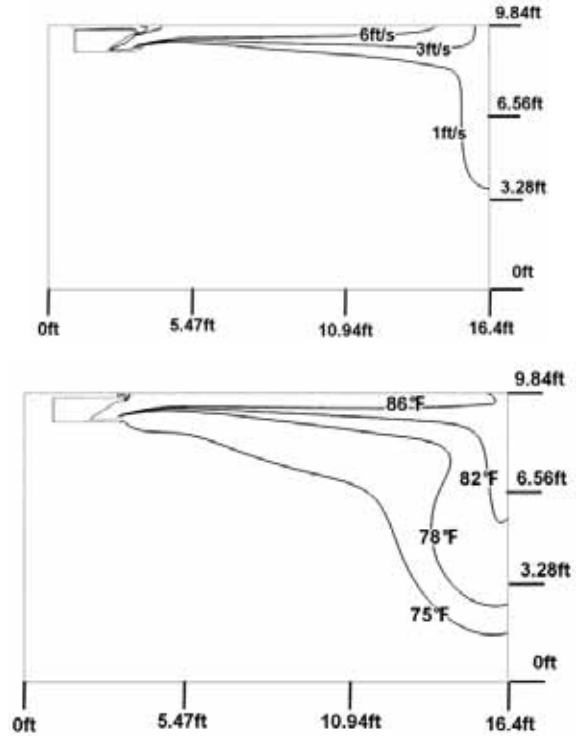
5.8 Air Velocity and Temperature Distribution

US09MB2BEA
US12MB2BEA

COOLING

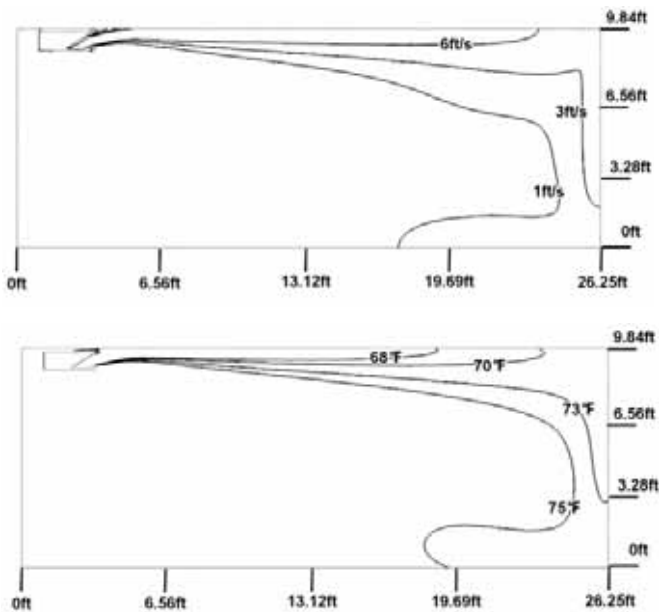


HEATING

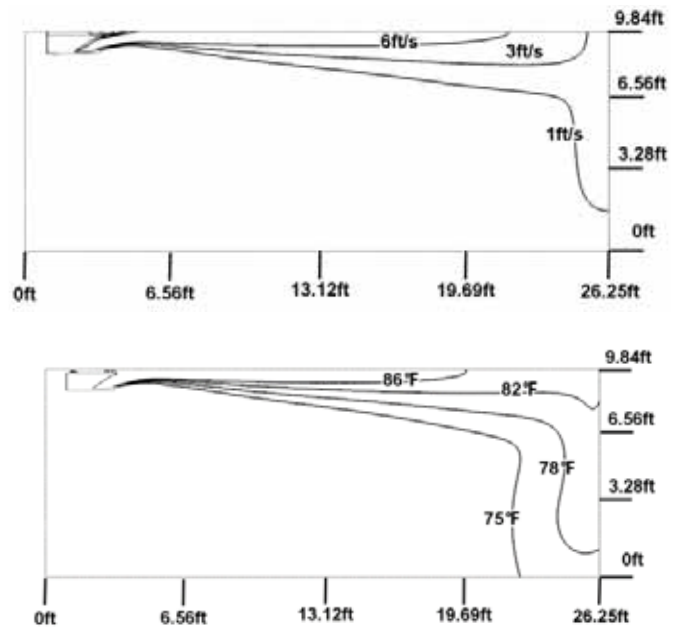


US18MB2BEA
US24MB2BEA

COOLING



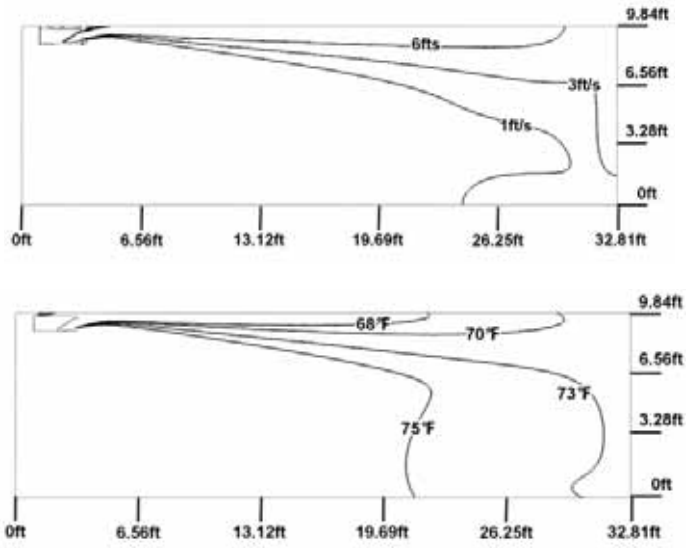
HEATING



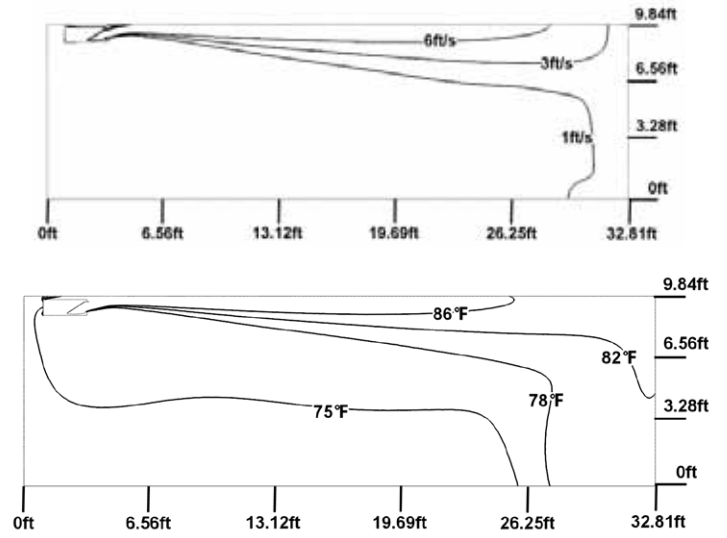
5. DUCTED INDOOR UNITS

US30MB2BEA
US36MB2BEA

COOLING



HEATING

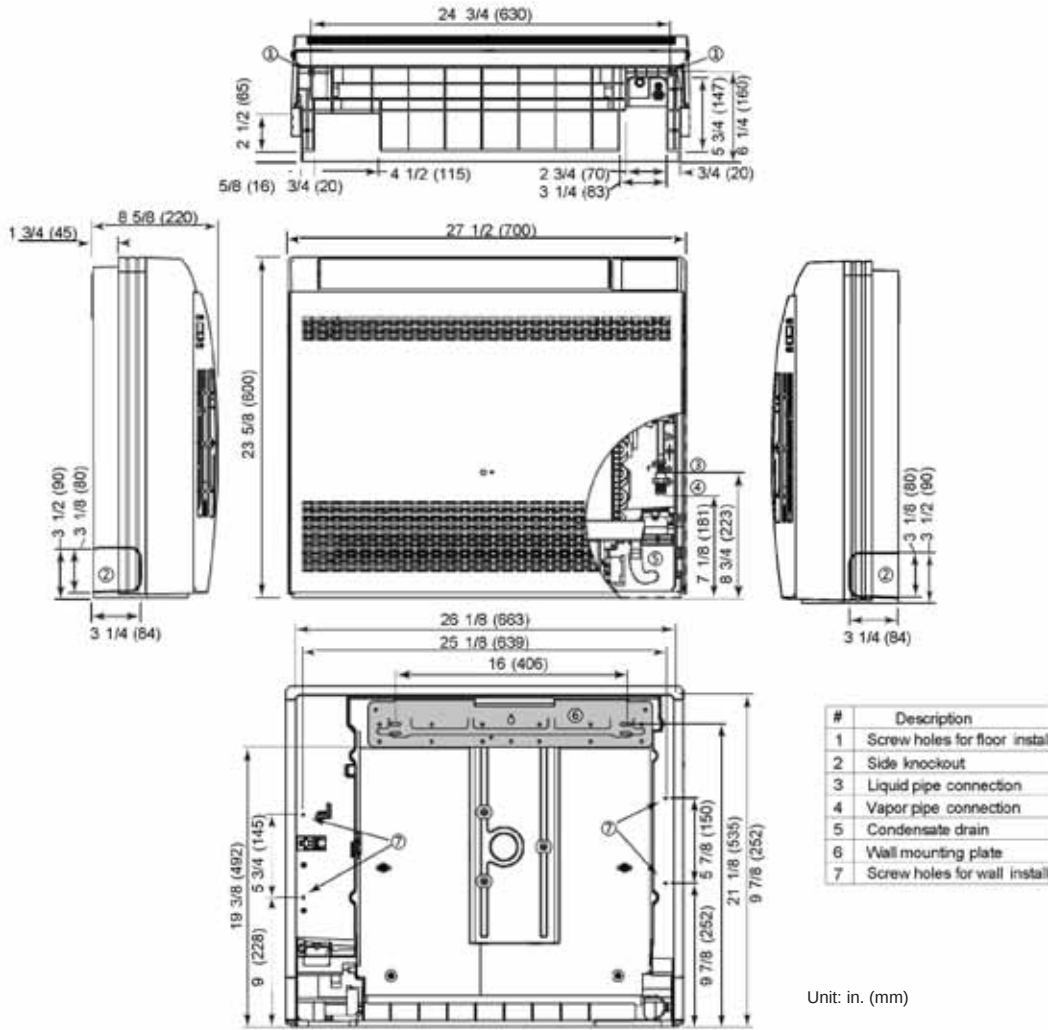


6. FLOOR CONSOLE INDOOR UNITS

ENGLISH

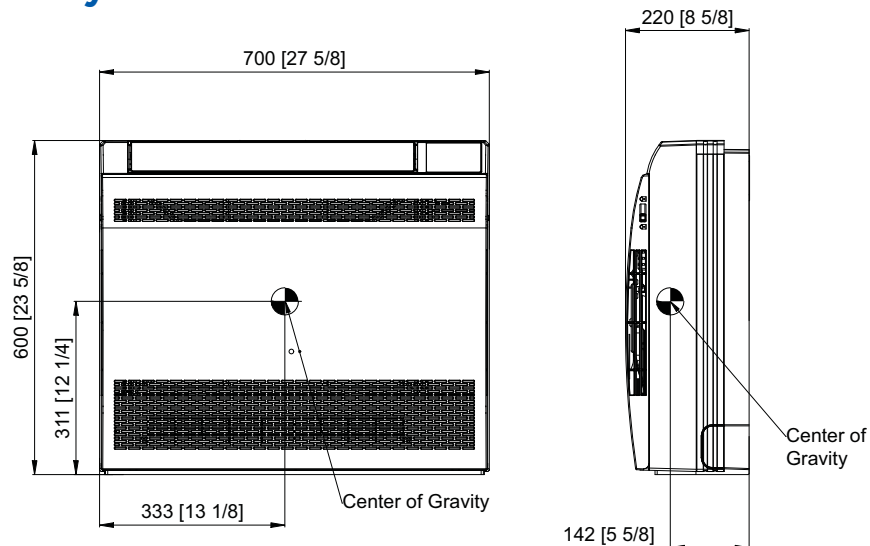
6.1 Dimensions

US09FB2BEA
US12FB2BEA
US18FB2BEA



6.2 Center of Gravity

US09FB2BEA
US12FB2BEA
US18FB2BEA



6.3 General

(6.3.1) Indoor Unit Description

- A. The floor console 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)
US09FB2BEA	Sound Pressure Rating: 44/40/37/32/24 Sound Power Rating: 55/51/48/43/35	Sound Pressure Rating: 43/37/32/27/20 Sound Power Rating: 54/48/43/38/31
US12FB2BEA	Sound Pressure Rating: 47/41/37/33/25 Sound Power Rating: 58/52/48/44/36	Sound Pressure Rating: 47/40/37/33/25 Sound Power Rating: 58/51/48/44/36
US18FB2BEA	Sound Pressure Rating: 49/44/43/40/37 Sound Power Rating: 60/55/54/51/48	Sound Pressure Rating: 49/43/43/37/37 Sound Power Rating: 60/54/54/48/48

(6.3.3) Warranty

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

6.4 Installation

(6.4.1) Condensate

- A. The floor console indoor shall be shipped with a insulated polyethylene condensate tubing (5/8" ID) attached from the factory.
- B. The floor console indoor unit shall ship with a 6.5 ft (2m) corrugated drain tube that connects to the insulated drain tube.
- C. The floor console 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 floor console indoor unit may be installed on the floor or low on the wall.
- B. The floor console indoor unit shall ship with a galvanized metal wall bracket.
- C. The wall bracket shall have multiple anchor points to provide the installer with many options to firmly attach the wall mounted indoor unit to the wall.
- D. The field-supplied mounting hardware must be adequate to support the indoor unit.

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.

Model	Fan Motor Power Output (W)
US09FB2BEA	30
US12FB2BEA	
US18FB2BEA	

- B. If a disconnect is required by local code, it must be a 3-pole, single-throw type.

6.6 Components

(6.6.1) Coil

- A. The indoor 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%.
- 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.

(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) Air Louvers

- A. The supply air shall be distributed by horizontal 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.

(6.6.6) Display

- A. The floor console indoor unit shall have a 1 x 5/8-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.

(6.6.7) WiFi

- A. Floor console indoor units shall come equipped with WiFi capabilities.

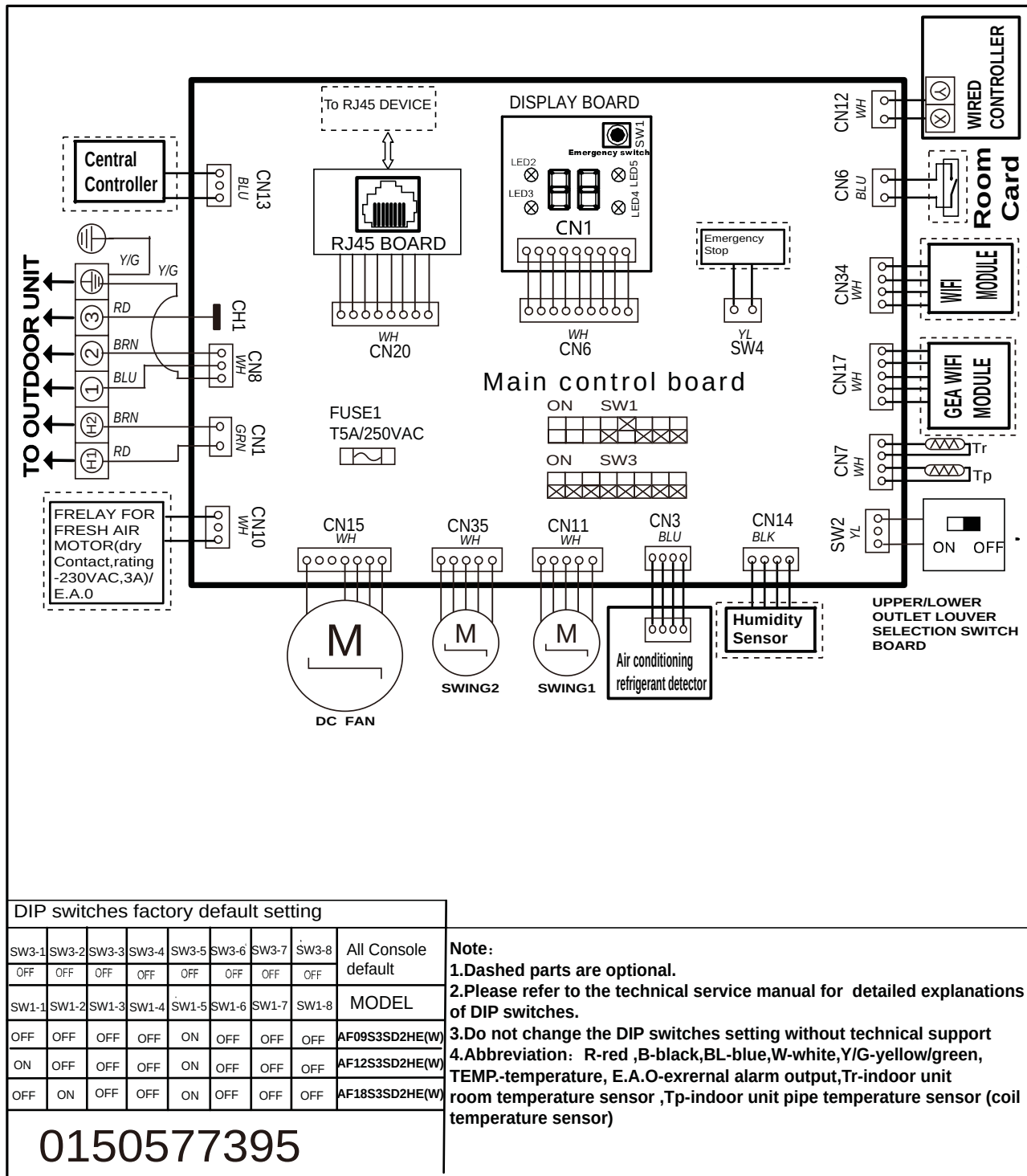
(6.6.8) Filter

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

(6.6.9) Control

- A. The floor console indoor unit shall ship with a hand-held infrared remote control (standard remote control YR-HG)..
- B. The floor console indoor unit shall be compatible with the Simplified Wired Controller (QACT17B).

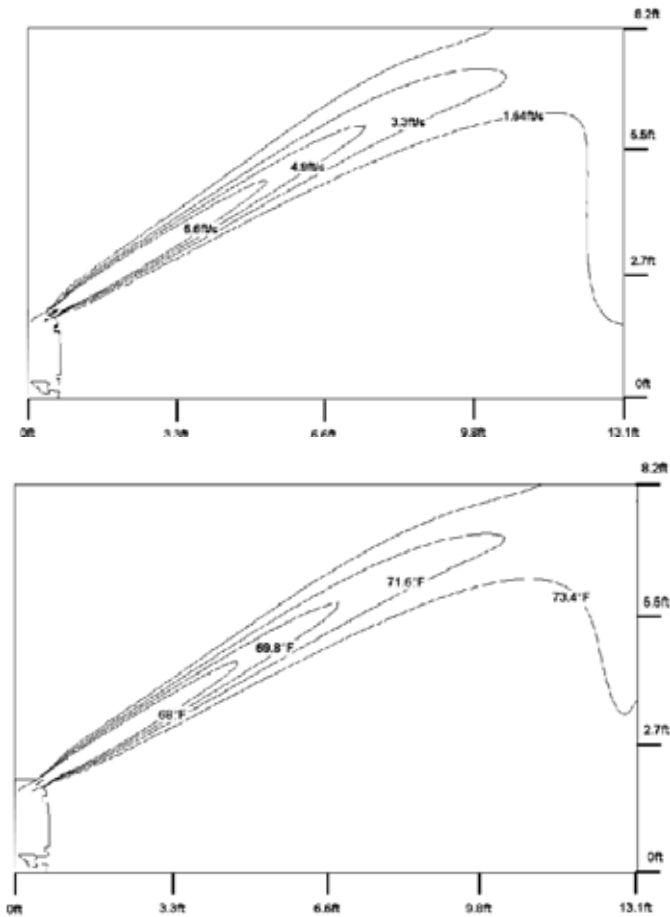
6.7 Wiring Diagrams



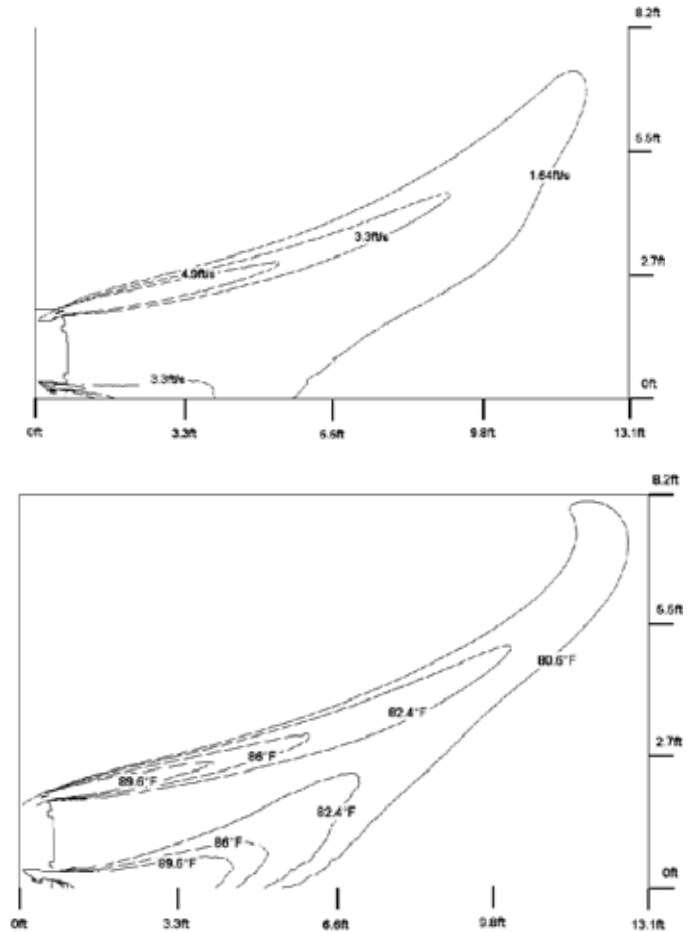
6.8 Air Velocity and Temperature Distribution

US09FB2BEA
US12FB2BEA
US18FB2BEA

COOLING

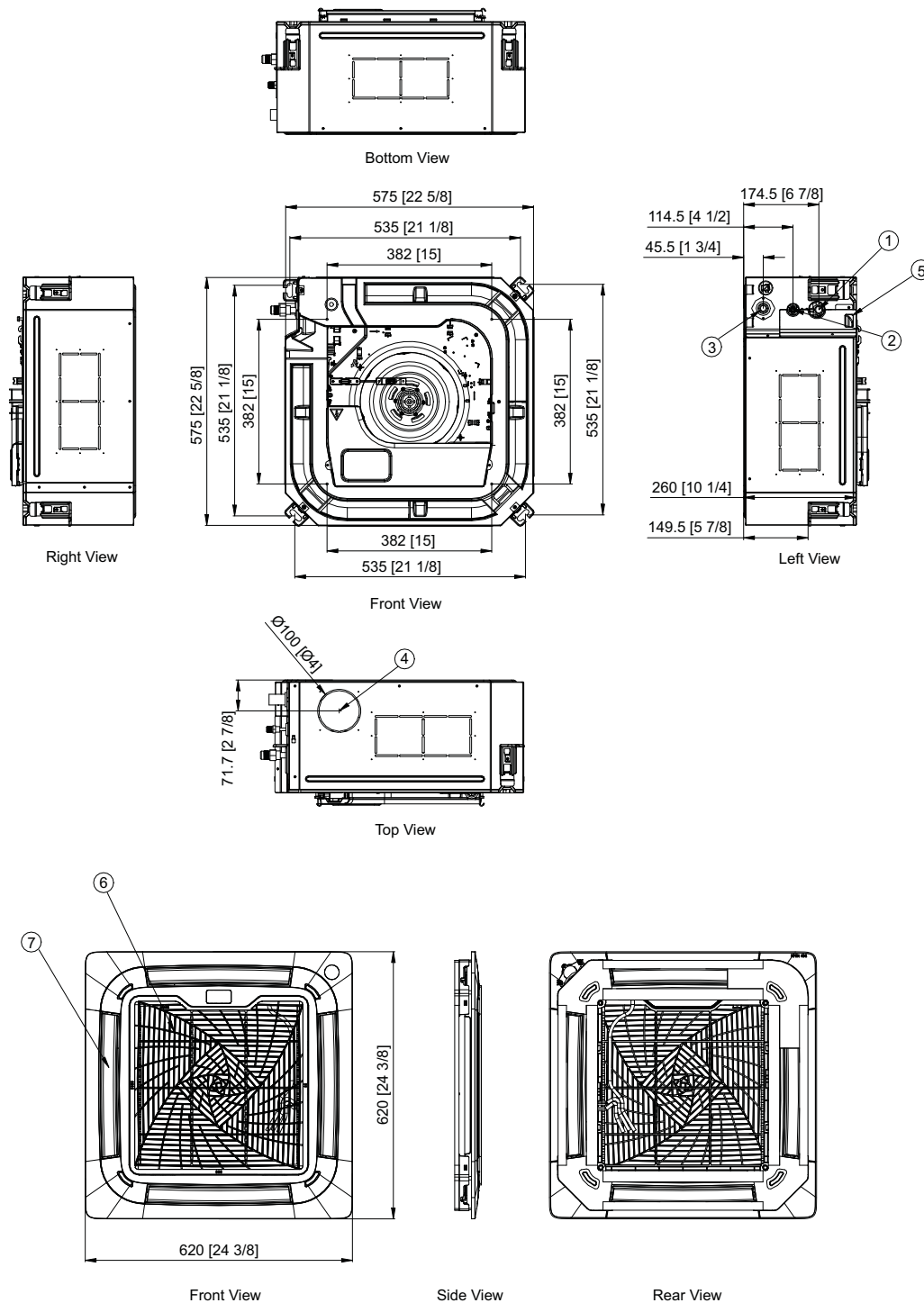


HEATING



7.1 Dimensions

US09CB2BEA
US12CB2BEA
US18CB2BEA

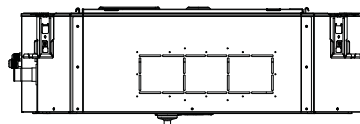


Unit: mm [in.]

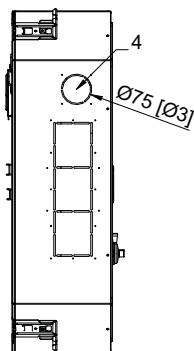
No	Part Name
1	Gas Pipe Connection
2	Liquid Pipe Connection
3	Drain Pipe Connection
4	Fresh Air Inlet
5	Power Cable And Communication Cable Routing Hole
6	Air Inlet
7	Air Outlet

7. CASSETTE INDOOR UNITS

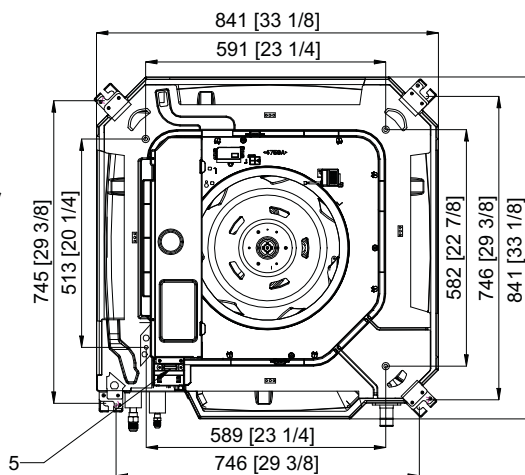
US24LB2BEA
US30LB2BEA
US36LB2BEA



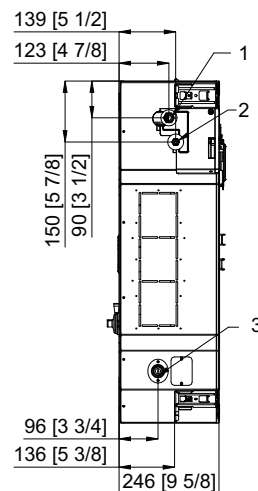
Bottom View



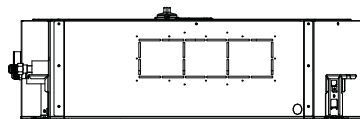
Right View



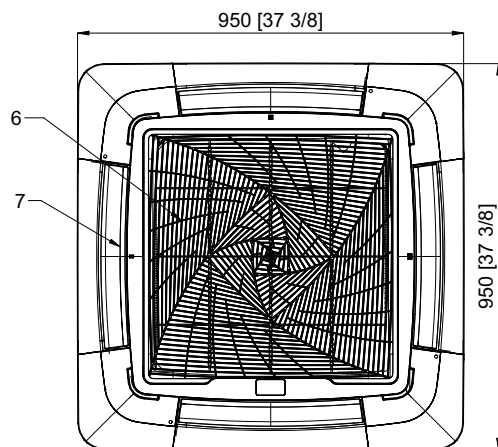
Front View



Left View



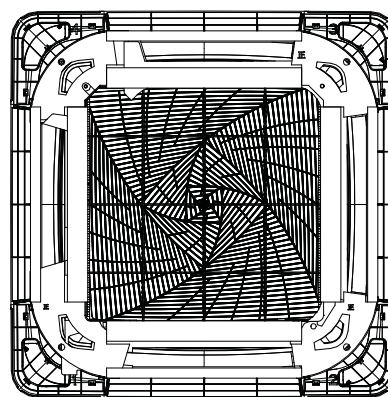
Top View



Front View



Side View



Rear View

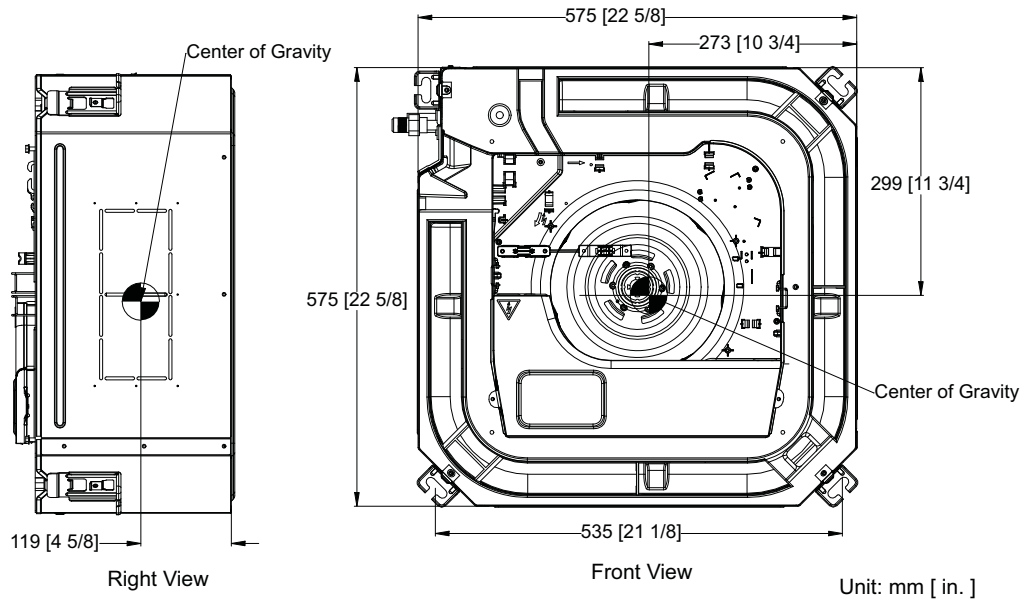
Unit: mm [in.]

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

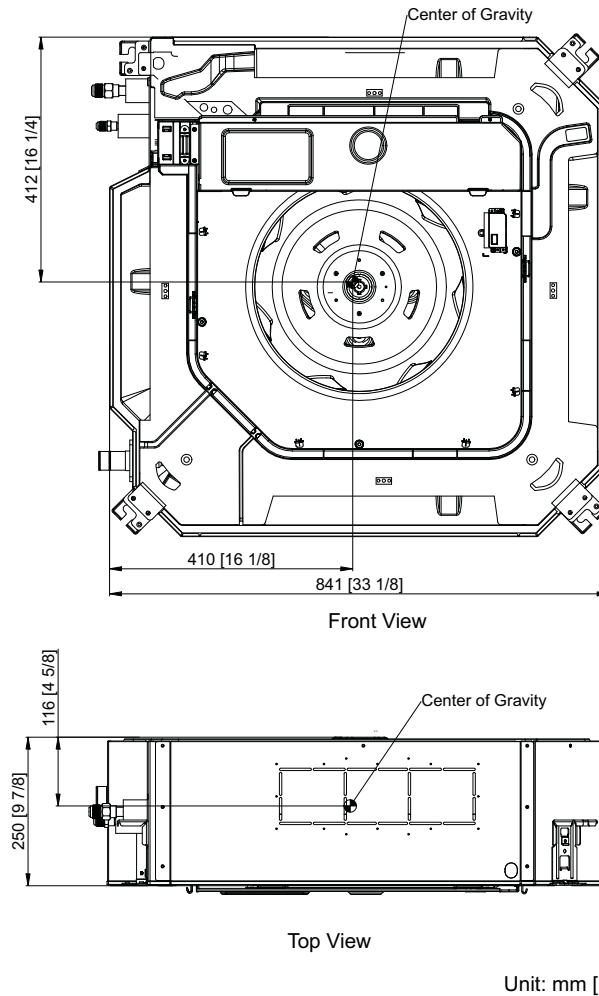
7. CASSETTE INDOOR UNITS

7.2 Center of Gravity

US09CB2BEA
US12CB2BEA
US18CB2BEA



US24LB2BEA
US30LB2BEA
US36LB2BEA



7. CASSETTE INDOOR UNITS

7.3 General

(7.3.1) Indoor Unit Description

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

(7.3.2) Sound Ratings

Model	Cooling Sound Level dB(A) (Turbo/High/Med/Low/Quiet)	Heating Sound Level dB(A) (Turbo/High/Med/Low/Quiet)
US09CB2BEA	Sound Pressure Rating: 42/40/36/32/25 Sound Power Rating: 57/55/51/47/40	Sound Pressure Rating: 42/40/36/32/25 Sound Power Rating: 57/55/51/47/40
US12CB2BEA	Sound Pressure Rating: 45/42/40/36/32 Sound Power Rating: 60/57/55/51/47	Sound Pressure Rating: 45/42/40/36/32 Sound Power Rating: 60/57/55/51/47
US18CB2BEA	Sound Pressure Rating: 45/42/40/36/32 Sound Power Rating: 60/57/55/51/47	Sound Pressure Rating: 45/42/40/36/32 Sound Power Rating: 60/57/55/51/47
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

(7.3.3) Warranty

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

7.4 Installation

(7.4.1) 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.

(7.4.2) Clearances

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

(7.4.3) 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.

7.5 Electrical Requirements

(7.5.1) Electrical Disconnect

- A. Connecting wire must be continuous (without break) unless local code requires a disconnect at the indoor unit.

Model	Fan Motor Power Output (W)
US09CB2BEA	30
US12CB2BEA	
US18CB2BEA	
US24LB2BEA	100
US30LB2BEA	
US36LB2BEA	

- B. If a disconnect is required by local code, it must be a 3-pole, single-throw type.

7. CASSETTE INDOOR UNITS

7.6 Components

(7.6.1) 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.

(7.6.2) 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.

(7.6.3) Fan Blade

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

(7.6.4) 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.

(7.6.5) 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.

(7.6.6) 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 (QACT17B).

(7.6.7) WiFi

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

7.7 Panels

QACCP01WA 2x2 Compact Cassette Panel

(7.7.1) General

- A. The QACCP01WA panel must be ordered separately when ordering the indoor cassette unit..

(7.7.2) Compatibility

- A. The QACCP01WA panel shall be compatible Compact Cassette indoor units, US09CB2BEA, US12CB2BEA and US18CB2BEA.

(7.7.3) 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.

(7.7.4) Filter

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

(7.7.5) Air Flow Control

- A. The QACCP01WA shall have vertical and horizontal louvers on all side to direct the air flow.

QALCP01WA 3x3 Large Cassette Panel

(7.7.1) General

- A. The QALCP01WA panel must be ordered separately when ordering the indoor cassette unit..

(7.7.2) Compatibility

- A. The QALCP01WA panel shall be compatible Compact Cassette indoor unit US24LB2BEA, US30LB2BEA , US36LB2BEA

(7.7.3) 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.

(7.7.4) Filter

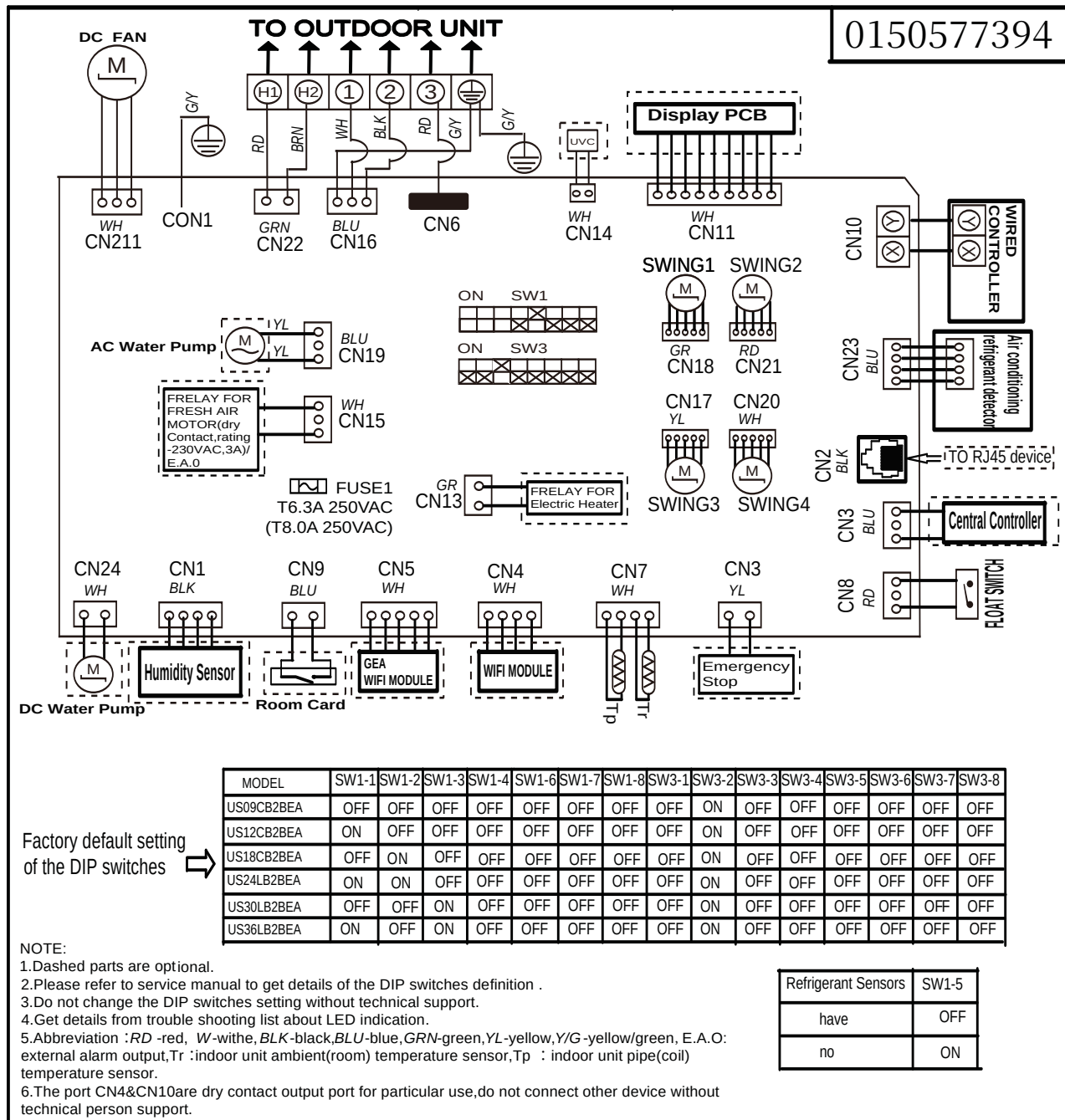
- A. The cassette indoor unit shall have a removable air filter.
- B. The air filters shall be washable and reusable.

(7.7.5) Air Flow Control

- A. A. The QALCP01WA shall have horizontal louvers on all sides to direct the air flow.
- A. B. The QALCP01WA shall have individual louver control.

7. CASSETTE INDOOR UNITS

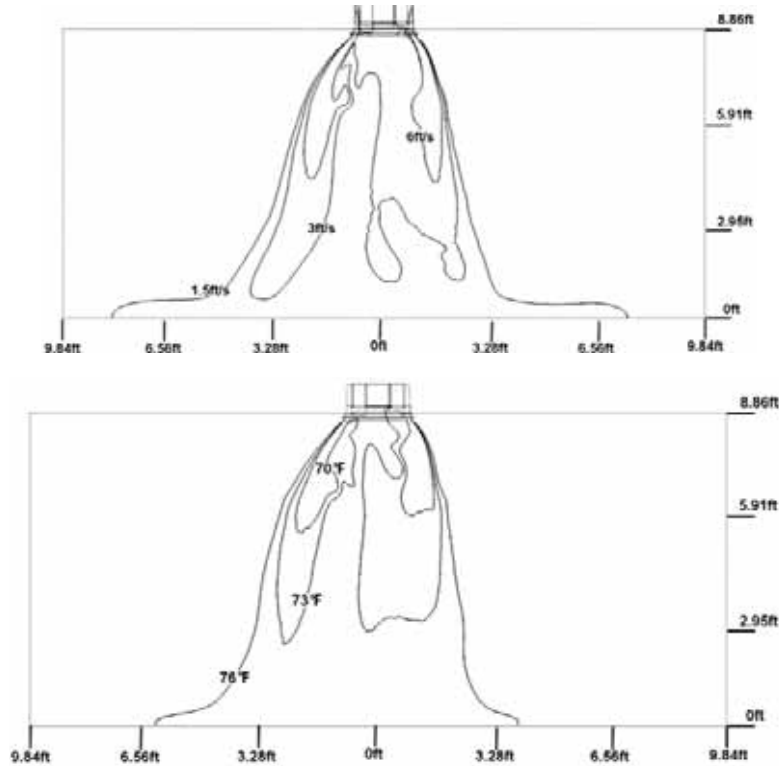
7.8 Wiring Diagrams



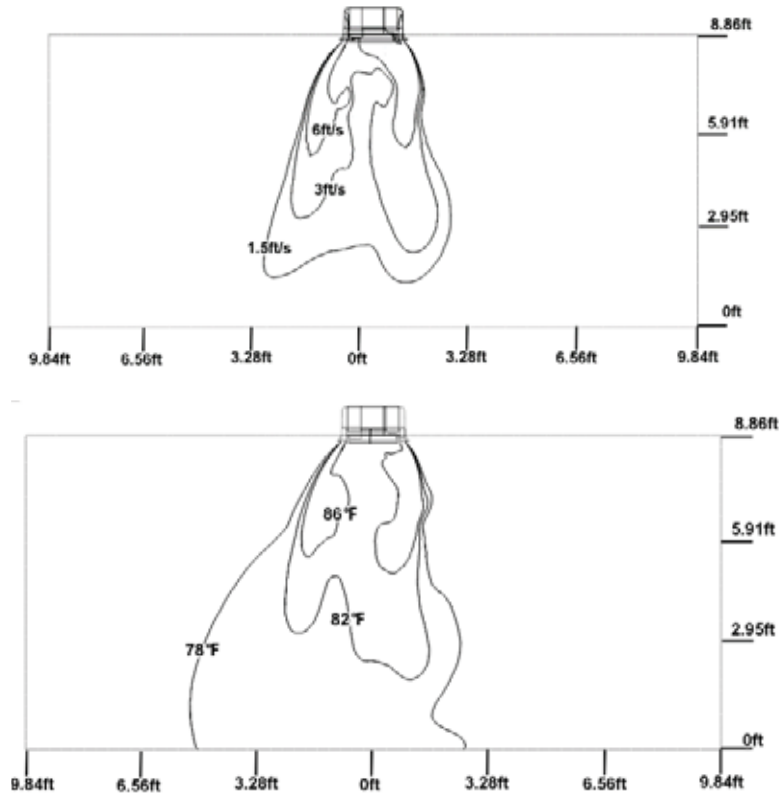
7.9 Air Velocity and Temperature Distribution

US09CB2BEA
US12CB2BEA
US18CB2BEA

COOLING



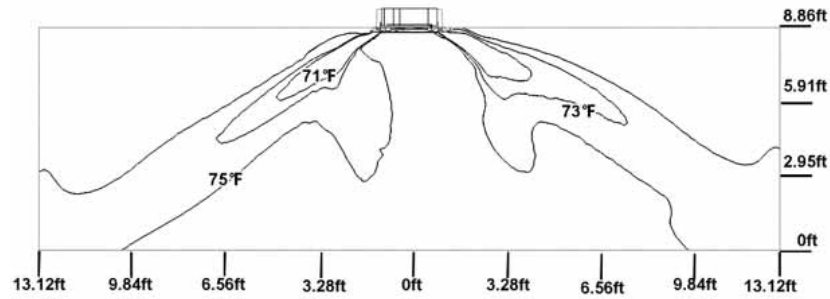
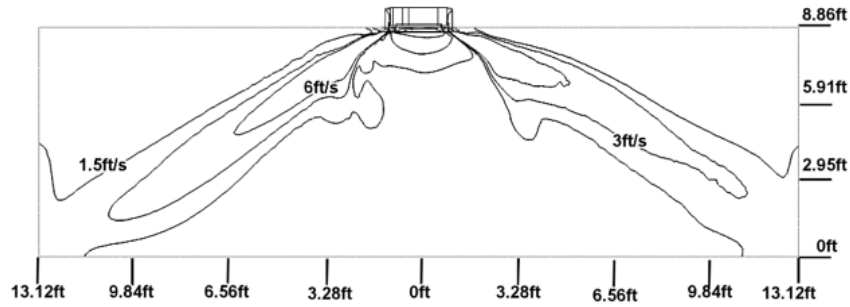
HEATING



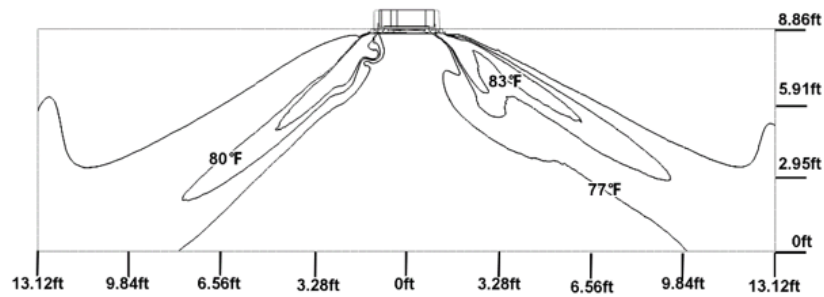
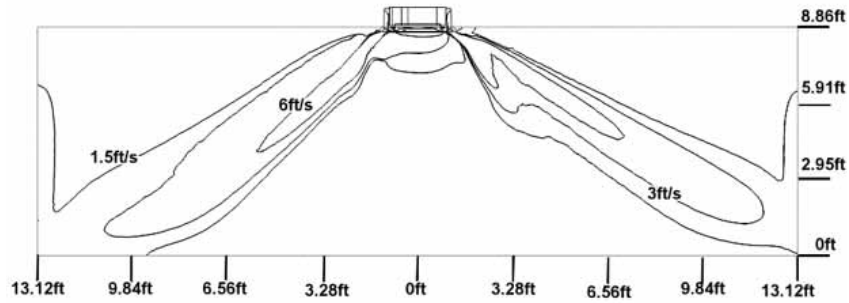
7. CASSETTE INDOOR UNITS

US24LB2BEA
US30LB2BEA
US36LB2BEA

COOLING



HEATING

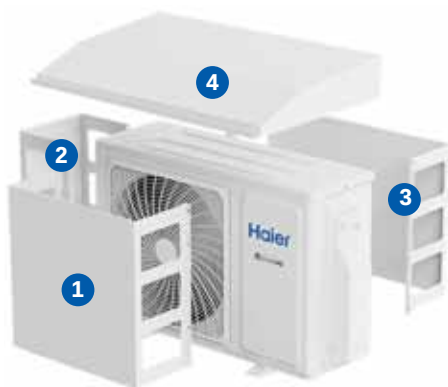


8. CONTROLS AND ACCESSORIES

8.1 Outdoor Unit Accessories

(8.1.1) Wind Baffles & Top Covers

Operating Conditions	Recommended Accessories			
	① Front Wind Baffle	② Side Wind Baffle	③ Back Wind Baffle	④ 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
1Q09FF2BEA	UAWB15WA	UASWB15WA	UATC15WA
1Q12FF2BEA	UAWB15WA	UASWB15WA	UATC15WA
1Q15FF2BEA	UAWB15WA	UASWB15WA	UATC20WA
1Q18FF2BEA	UAWB15WA	UASWB15WA	UATC20WA
1Q24FF2BEA	UAWB30WA	UASWB30WA	UATC35WA
1Q3036FF2BEA	UAWB50WA	UASWB30WA	UATC55WA

8.2 Indoor Unit Accessories

(8.2.1) Cassette Panels

Required for cassette indoor units; sold separately. Remote controller (WJ26X35394) is included with cassette panel.



QACCP01WA
Compact Cassette Panel
Fits Models:
US09CB2BEA
US12CB2BEA
US18CB2BEA



QALCP01WA
Large Cassette Panel
Fits Models:
US24LB2BEA
US30LB2BEA
US36LB2BEA

(8.2.2) 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.



8. CONTROLS AND ACCESSORIES

(8.2.3) Merv Return Air Filter Boxes

MERV return air filter boxes for ducted indoor models.



UAMFB0912A

Fits Models:
US09MB2BEA
US12MB2BEA

UAMFB1824A

Fits Models:
US18MB2BEA
US24MB2BEA

UAMFB3048A

Fits Models:
US30MB2BEA
US36MB2BEA

(8.2.4) Supply Plenums

Supply plenums for ducted indoor models..



UAPT0912A

Fits Models:
US09MB2BEA
US12MB2BEA

UAPT1824A

Fits Models:
US18MB2BEA
US24MB2BEA

UAPT3048A

Fits Models:
US30MB2BEA
US36MB2BEA

(8.2.5) 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.

8. CONTROLS AND ACCESSORIES

8.3 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.

(8.3.1) 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.



(8.3.2) 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.

8.4 Indoor Unit Accessory Compatibility Table

	Model Number	Remote Controllers			Wired Controller	Refrigerant Detection Sensor (RDS)
		WJ26X35393	WJ26X35813	WJ26X35394	QACT17B	UALS01A
Standard Highwall	QS09WB2BEA	●			○	○
	QS12WB2BEA	●			○	○
	QS15WB2BEA	●			○	○
	QS18WB2BEA	●			○	○
	QS24WB2BEA	●			○	○
	QS30WB2BEA	●			○	○
	QS36WB2BEA	●			○	○
Compact Cassette	US09CB2BEA					○
	US12CB2BEA					○
	US18CB2BEA					○
	QACCP01WA*			●	○	
Large Cassette	US24LB2BEA					○
	US30LB2BEA					○
	US36LB2BEA					○
	QALCP01WA*			●	○	
Console	US09FB2BEA		●		○	●
	US12FB2BEA		●		○	●
	US18FB2BEA		●		○	●
Ducted	US09MB2BEA				⊙	●
	US12MB2BEA				⊙	●
	US18MB2BEA				⊙	●
	US24MB2BEA				⊙	●
	US30MB2BEA				⊙	●
	US36MB2BEA				⊙	●

*Cassette Panel

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

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