

Multi-zone Heat Pump System

Outdoor Model: 38GJQL56---3



Submittal Data

Job Data: _____ Location: _____

Buyer: _____ Buyer P.O. #: _____ Carrier #: _____

Unit Number: _____ Model Number: _____

Performance Data Certified By: _____ Date: _____



INFINITY SERIES

MULTI-ZONE STANDARD FEATURES

- Variable Speed (Inverter)
- Built-in base pan heater
- Quiet operation
- Connect up to 9 multiple style indoor units
 - High Wall (GR and GJ*B)
 - Ducted (GJ*D)
 - Cassette (GJ*C)
 - Floor Console (GJ*F)

CONTROL FEATURES

- Wireless Remote Controller included with each indoor unit.
- Wired Remote Controller included with each Ducted and Cassette indoor unit (Optional on GJ*B High Wall)
- Smart Phone Controls (Optional on GR High Wall)

For specific information on indoor unit see Product Data

System	Size		56
	Outdoor Model		38GJQL56---3
	Max Number of Zones		9
Performance Non-Ducted	Cooling Rated Capacity	Btu/h	53,000
	Cooling Cap. Range Min - Max	Btu/h	3,412~61,416
	SEER		16
	EER		9.45
	Heating Rated Capacity	Btu/h	61,500
	Heating Cap. Range Min - Max	Btu/h	4,094~63,122
	HSPF		8.2
Performance Combination Ducted and Non-Ducted	Cooling Rated Capacity	Btu/h	53,000
	Cooling Cap. Range Min - Max	Btu/h	8,456~58,708
	SEER		15.75
	EER		9.1
	Heating Rated Capacity	Btu/h	61,000
	Heating Cap. Range Min - Max	Btu/h	10,047~62,061
	HSPF		8.2
Performance Ducted	Cooling Rated Capacity	Btu/h	52,500
	Cooling Cap. Range Min - Max	Btu/h	13,500~56,000
	SEER		15.5
	EER		8.7
	Heating Rated Capacity	Btu/h	60,500
	Heating Cap. Range Min - Max	Btu/h	16,000~61,000
	HSPF		8.2

Operating Range	Cooling Outdoor DB Min - Max	°F	5~119
	Heating Outdoor DB Min - Max	°F	-4~75
Piping	Total Piping Length	Ft.	476
	Piping to furthest FCU	Ft.	229
	Drop (OD above ID)	Ft.	98
	Lift (OD below ID)	Ft.	98
	Pipe Connection Size - Liquid	In.	3/8"
	Pipe Connection Size - Suction	In.	5/8"
Electrical	Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60
	Power Supply	Indoor unit powered from Branch Box	
	MCA	A.	30
	MOCP - Fuse Rating	A.	40
Outdoor	Unit Width	In.	35.4
	Unit Height	In.	53
	Unit Depth	In.	13.4
	Net Weight	Lbs.	255.7
	Airflow	CFM	4,119
	Sound Pressure	dB(A)	57

Accessories

- ☐ Wired Control Convertible – F/C (GJ*B Systems)
- ☐ Multi 2 Port Branch Box
- ☐ Multi 3 Port Branch Box

- ☐ Y-type Branch Tube
- ☐ Grille/Ceiling panel (Required for GJ*C)
- ☐ Condensate Pump 208/230V (GR, GJ*B & GJ*F Indoor units)

Multi-zone Indoor combinations

Outdoor Unit Model	2-Zone	3-Zone		4-Zone			5-Zone			6-Zone			7-Zone	8-Zone	9-Zone	
38GJQL56---3	9+18	9+9+12	12+12+24	9+9+9+9	9+12+18+21	12+12+18+21	9+9+9+9+9	9+9+12+12+24	9+12+12+18+21	9+9+9+9+9+9	9+9+9+9+21+21	9+9+12+12+12+21	9+9+9+9+9+9+9	9+9+9+9+9+9+9	9+9+9+9+9+9+9+9	
	9+21	9+9+18	12+18+18	9+9+9+12	9+12+18+24	12+12+18+24	9+9+9+9+12	9+9+9+12+18+18	9+12+18+24	9+9+9+9+9+12	9+9+9+9+21+24	9+9+12+12+12+24	9+9+9+9+9+9+12	9+9+9+9+9+9+12	9+9+9+9+9+9+12	
	9+24	9+9+21	12+18+21	9+9+9+18	9+12+21+21	12+12+21+21	9+9+9+9+18	9+9+9+12+18+21	9+12+21+21	9+9+9+9+9+18	9+9+9+9+12+12+12	9+9+12+12+18+18	9+9+9+9+9+9+18	9+9+9+9+9+9+18	9+9+9+9+9+9+18	
	12+18	9+9+24	12+18+24	9+9+9+21	9+12+21+24	12+12+21+24	9+9+9+9+21	9+9+9+12+18+24	9+12+21+24	9+9+9+9+9+21	9+9+9+9+12+12+18	9+9+12+12+18+21	9+9+9+9+9+9+21	9+9+9+9+9+9+21	9+9+9+12+12	
	12+21	9+12+12	12+21+21	9+9+9+24	9+12+24+24	12+12+24+24	9+9+9+9+24	9+9+9+12+21+21	9+12+24+24	9+9+9+9+9+24	9+9+9+9+12+12+21	9+12+12+12+12+12	9+9+9+9+9+9+24	9+9+9+9+9+9+24	9+12+12+12+12	
	12+24	9+12+18	12+21+24	9+9+12+12	9+18+18+18	12+18+18+18	9+9+9+12+12	9+9+9+12+21+24	12+12+12+12	9+9+9+9+12+12	9+9+9+9+12+12+24	9+12+12+12+12+18	9+9+9+9+9+12+12	9+9+9+9+9+12+12		
	18+18	9+12+21	12+24+24	9+9+12+18	9+18+18+21	12+18+18+21	9+9+9+12+18	9+9+9+12+12+24+24	12+12+18	9+9+9+9+9+12+18	9+9+9+9+12+18+18	9+12+12+12+12+21	9+9+9+9+9+12+18	9+9+9+9+9+12+18		
	18+21	9+12+24	18+18+18	9+9+12+21	9+18+18+24	12+18+18+24	9+9+9+12+21	9+9+9+18+18+18	12+12+21	9+9+9+9+12+21	9+9+9+9+12+18+21	9+12+12+12+12+24	9+9+9+9+9+12+21	9+9+9+9+9+12+21		
	18+24	9+18+18	18+18+21	9+9+12+24	9+18+21+21	12+18+21+21	9+9+9+12+24	9+9+9+18+18+21	12+12+24	9+9+9+9+12+24	9+9+9+9+12+18+24	9+12+12+12+18+18	9+9+9+9+9+12+24	9+9+9+9+9+12+24		
	21+21	9+18+21	18+18+24	9+9+18+18	9+18+21+24	12+18+21+24	9+9+9+18+18	9+9+9+18+18+24	12+18+18	9+9+9+9+18+18	9+9+9+9+12+21+21	9+12+12+12+12+12	9+9+9+9+9+18+18	9+9+9+9+9+18+18		
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	24+24	9+21+21	18+21+24	9+9+18+24	9+21+21+21	12+21+21+21	9+9+9+18+24	9+9+9+18+21+24	12+18+24	9+9+9+9+18+24	9+9+9+9+12+12+18	9+12+12+12+12+21	9+9+9+9+9+12+18	9+9+9+9+9+12+18		
		9+21+24	18+24+24	9+9+21+21	9+21+21+24	12+21+21+24	9+9+9+21+21	9+12+12+12+12	12+12+21+21					9+9+9+9+12+12+21	9+9+9+9+12+12+21	
		9+24+24	21+21+21	9+9+21+24	9+21+24+24	12+21+24+24	9+9+9+21+24	9+12+12+12+18	12+12+21+24					9+9+9+9+12+12+12	9+9+9+9+12+12+12	
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		12+12+21	24+24+24	9+12+12+18	12+12+12+18	18+18+18+24	9+9+12+12+21	9+12+12+18+18						9+12+12+12+12+12	9+12+12+12+12+12	
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			9+12+18+18	12+12+18+18	18+21+21+21											

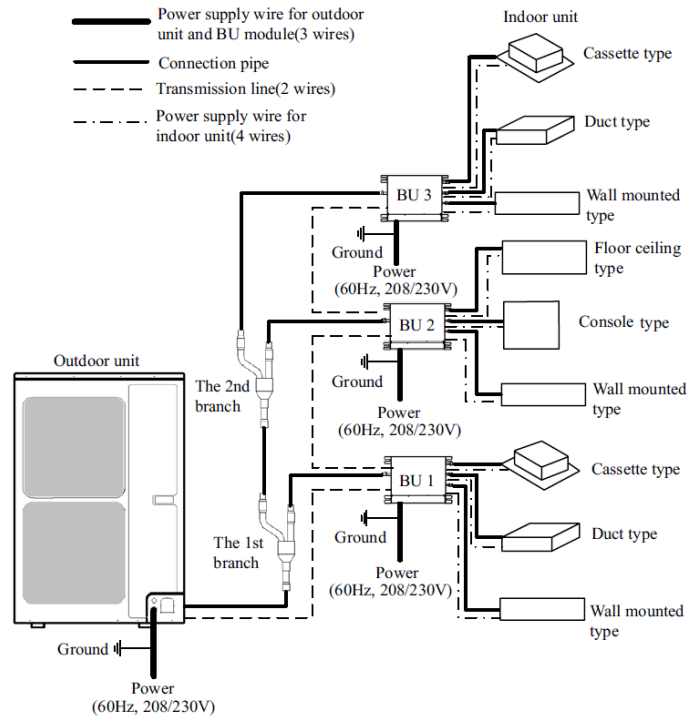
Multi-zone Indoor combinations

	Indoor High Wall (G/R)	Size		9	12	18		
		Model (White)		40GRQB09H--3	40GRQB12H--3	40GRQB18H--3		
		Model (Silver)		40GRQB09B--3	40GRQB12B--3	40GRQB18B--3		
		Unit Width	In.	37.8	37.8	37.8		
		Unit Height	In.	12.6	12.6	12.6		
		Unit Depth	In.	8.1	8.1	8.1		
		Net Weight	Lbs.	30.9	30.9	30.9		
		Pipe Connection Size - Liquid	In.	1/4"	1/4"	1/4"		
		Pipe Connection Size - Suction	In.	1/2"	1/2"	5/8"		
		Number of Fan Speeds		7	7	7		
		Airflow (lowest to highest)	CFM	206/235/294/324/ 353/383/412	265/294/353/383/ 412/441/471	324/353/412/441/ 471/500/530		
		Sound Pressure (lowest to highest)	dB(A)	22/24/26/30/34/38/41	23/25/27/31/35/39/42	26/28/31/35/39/43/48		
				9	12	18	24	
	Indoor High Wall (G/B)	Size		9	12	18	24	
		Model		40GJQB09B--3	40GJQB12B--3	40GJQB18B--3	40GJQB24B--3	
		Unit Width	In.	34.1	34.1	40.1	46.4	
		Unit Height	In.	11.5	11.5	12.6	2.8	
		Unit Depth	In.	8.2	8.2	9.1	10.4	
		Net Weight	Lbs.	24.3	24.3	30.9	38.6	
		Pipe Connection Size - Liquid	In.	1/4"	1/4"	1/4"	1/4"	
		Pipe Connection Size - Suction	In.	1/2"	1/2"	5/8"	5/8"	
		Number of Fan Speeds		7	7	7	7	
		Airflow (lowest to highest)	CFM	224/241/271/312/ 359/394/430	224/241/271/312/ 659/394/453	282/330/371/418/ 465/512/589	294/353/412/471/ 530/588/647	
		Sound Pressure (lowest to highest)	dB(A)	23/26/30/34/36/38/42	24/26/30/34/36/38/44	33/36/38/41/44/47/51	38/41/43/45/47/49/52	
				12	18	24		
		Model		40GJQB12C--3	40GJQB18C--3	40GJQB24C--3		
	Indoor Cassette (G/C)	Unit Width	In.	22.4	22.4	22.4		
		Unit Height	In.	9.1	9.1	9.4		
		Unit Depth	In.	22.4	22.4	33.1		
		Net Weight	Lbs.	39.7	39.7	61.7		
		Pipe Connection Size - Liquid	In.	1/4"	1/4"	3/8"		
		Pipe Connection Size - Suction	In.	3/8"	1/2"	5/8"		
		Number of Fan Speeds		3	3	3		
		Airflow	CFM	265/294/353	265/294/353	500/ 559/694		
		Sound Pressure (lowest to highest)	dB(A)	42/44/46	42/44/46	35/37/39		
				9	12	18	21	
		Model		40GJQB09D--3	40GJQB12D--3	40GJQB18D--3	40GJQB21D--3	
		Unit Width	In.	24.2	24.2	24.2	24.2	
		Unit Height	In.	7.9	7.9	7.9	7.9	
		Unit Depth	In.	27.6	27.6	35.4	43.3	
	Indoor Ducted (G/D)	Net Weight	Lbs.	48.5	50.7	59.5	68.3	
		Pipe Connection Size - Liquid	In.	1/4"	1/4"	1/4"	3/8"	
		Pipe Connection Size - Suction	In.	3/8"	3/8"	1/2"	5/8"	
		Number of Fan Speeds		3	3	3	3	
		Airflow (lowest to highest)	CFM	147/176/264	176/235/323	294/353/411	323/441/588	
		Sound Pressure (lowest to highest)	dB(A)	31/34/37	32/35/39	33/37/41	34/38/42	
		Max Static Pressure	In.WG.	0.04	0.04	0.04	0.06	
				9	12	18	21	
		Model		40GJQB09F--3	40GJQB12F--3	40GJQB18F--3	40GJQB21F--3	
		Unit Width	In.	8.5	8.5	8.5		
		Unit Height	In.	23.6	23.6	23.6		
		Unit Depth	In.	27.6	27.6	27.6		
		Net Weight	Lbs.	33.1	33.1	33.1		
	Indoor Floor Console (G/F)	Pipe Connection Size - Liquid	In.	1/4"	1/4"	1/4"		
		Pipe Connection Size - Suction	In.	3/8"	3/8"	1/2"		
		Number of Fan Speeds		7	7	7		
		Airflow (lowest to highest)	CFM	188/217/253/282/ 311/ 329/ 382	205/264/294/323/ 353/382/441	241/311/ 341/ 382/ 423/470/494		
		Sound Pressure (lowest to highest)	dB(A)	25/ 26/ 30/ 33/36/38/40	27/ 32/ 35/ 37/38/40/43	33/ 35/ 37/ 41/44/46/48		
				9	12	18		
		Model		40GJQB09H--3	40GJQB12H--3	40GJQB18H--3		
		Unit Width	In.	37.8	37.8	37.8		
		Unit Height	In.	12.6	12.6	12.6		
		Unit Depth	In.	8.1	8.1	8.1		
		Net Weight	Lbs.	30.9	30.9	30.9		
		Pipe Connection Size - Liquid	In.	1/4"	1/4"	1/4"		
		Pipe Connection Size - Suction	In.	1/2"	1/2"	5/8"		
		Number of Fan Speeds		7	7	7		

Branch Boxes

Branch Box	KSAUI0201AAA	KSAUI0401AAA
Min number of branches	1	1
Max number of branches	2	3

One outdoor unit is able to connect up to 3 Branch Box Units (BU)



Refrigerant pipe **Braze** Connection

KSAUI0201AAA

Technical drawing of the KSAUI0201AAA branch box. The drawing includes three views: top, side, and front.

- Top View:** Shows a rectangular box with overall dimensions of 17.3 in (439 mm) by 15 in (383 mm). The height is 12.2 in (310 mm). The distance from the top edge to the first set of ports is 10.3 in (263 mm). The distance from the bottom edge to the first set of ports is 12.3 in (313 mm).
- Side View:** Shows the box from the side with a height of 12.2 in (310 mm). The distance from the top edge to the first set of ports is 10.3 in (263 mm). The distance from the bottom edge to the first set of ports is 12.3 in (313 mm).
- Front View:** Shows the box from the front with a width of 14.2 in (361 mm). The distance from the left edge to the first set of ports is 5 in (128 mm). The distance from the right edge to the first set of ports is 5 in (128 mm). The distance from the top edge to the first set of ports is 10.3 in (263 mm). The distance from the bottom edge to the first set of ports is 12.3 in (313 mm). The distance between the two sets of ports is 2.36 in (60 mm). The distance from the center of the first set of ports to the center of the second set of ports is 4.1 in (105 mm). The distance from the center of the first set of ports to the center of the third set of ports is 1.7 in (44 mm). The distance from the center of the first set of ports to the center of the fourth set of ports is 3.3 in (85 mm).

	Indoor Unit side		Outdoor Unit Side
	Port A	Port B	
Liquid pipe	1/4in (6.5mm)	1/4in (6.5mm)	3/8in (9.7mm)
Gas Pipe	5/8in (16.3mm)	5/8in (16.3mm)	5/8in (16.3mm)

KSAUI0401AAA

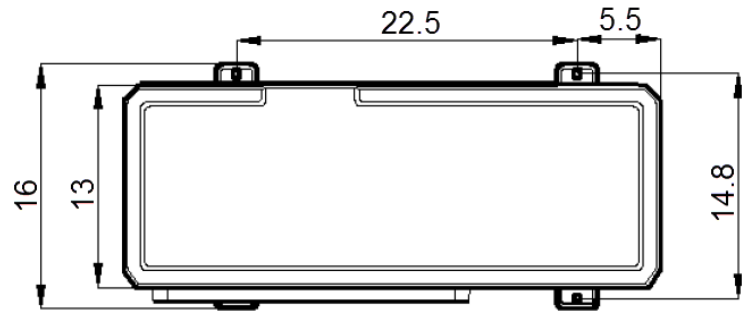
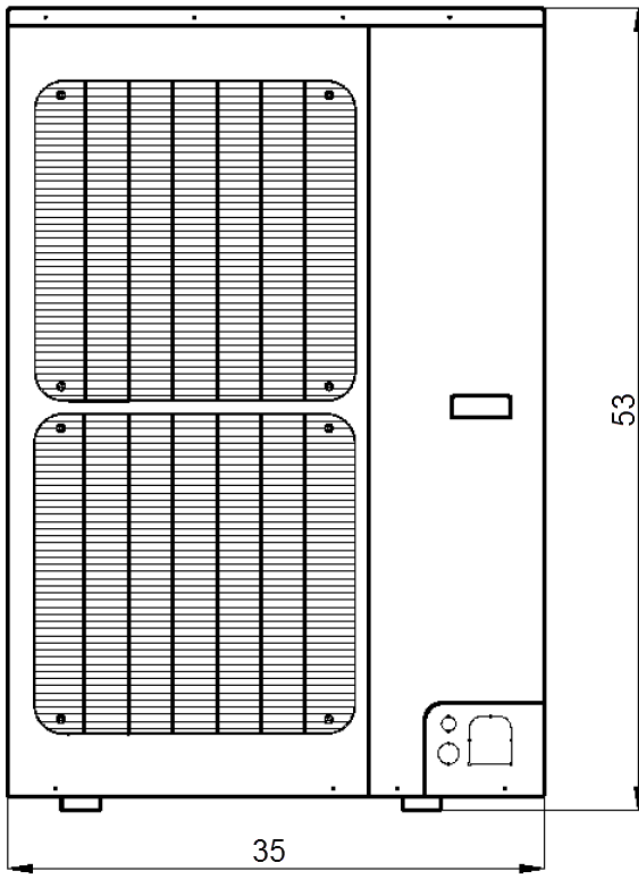
Technical drawing of the KSAUI0401AAA branch box. The drawing includes three views: top, side, and front.

- Top View:** Shows a rectangular box with overall dimensions of 17.3 in (439 mm) by 15 in (383 mm). The height is 12.2 in (310 mm). The distance from the top edge to the first set of ports is 10.3 in (263 mm). The distance from the bottom edge to the first set of ports is 12.3 in (313 mm).
- Side View:** Shows the box from the side with a height of 12.2 in (310 mm). The distance from the top edge to the first set of ports is 10.3 in (263 mm). The distance from the bottom edge to the first set of ports is 12.3 in (313 mm).
- Front View:** Shows the box from the front with a width of 14.2 in (361 mm). The distance from the left edge to the first set of ports is 5 in (128 mm). The distance from the right edge to the first set of ports is 5 in (128 mm). The distance from the top edge to the first set of ports is 10.3 in (263 mm). The distance from the bottom edge to the first set of ports is 12.3 in (313 mm). The distance between the two sets of ports is 2.36 in (60 mm). The distance from the center of the first set of ports to the center of the second set of ports is 4.1 in (105 mm). The distance from the center of the first set of ports to the center of the third set of ports is 1.7 in (44 mm). The distance from the center of the first set of ports to the center of the fourth set of ports is 3.3 in (85 mm).

	Indoor Unit side			Outdoor Unit Side
	Port A	Port B	Port C	
Liquid pipe	1/4in (6.5mm)	1/4in (6.5mm)	1/4in (6.5mm)	3/8in (9.7mm)
Gas Pipe	5/8in (16.3mm)	5/8in (16.3mm)	5/8in (16.3mm)	5/8in (16.3mm)

Construction View

Outdoor Unit 38GJQL56---3



Unit: Inches

