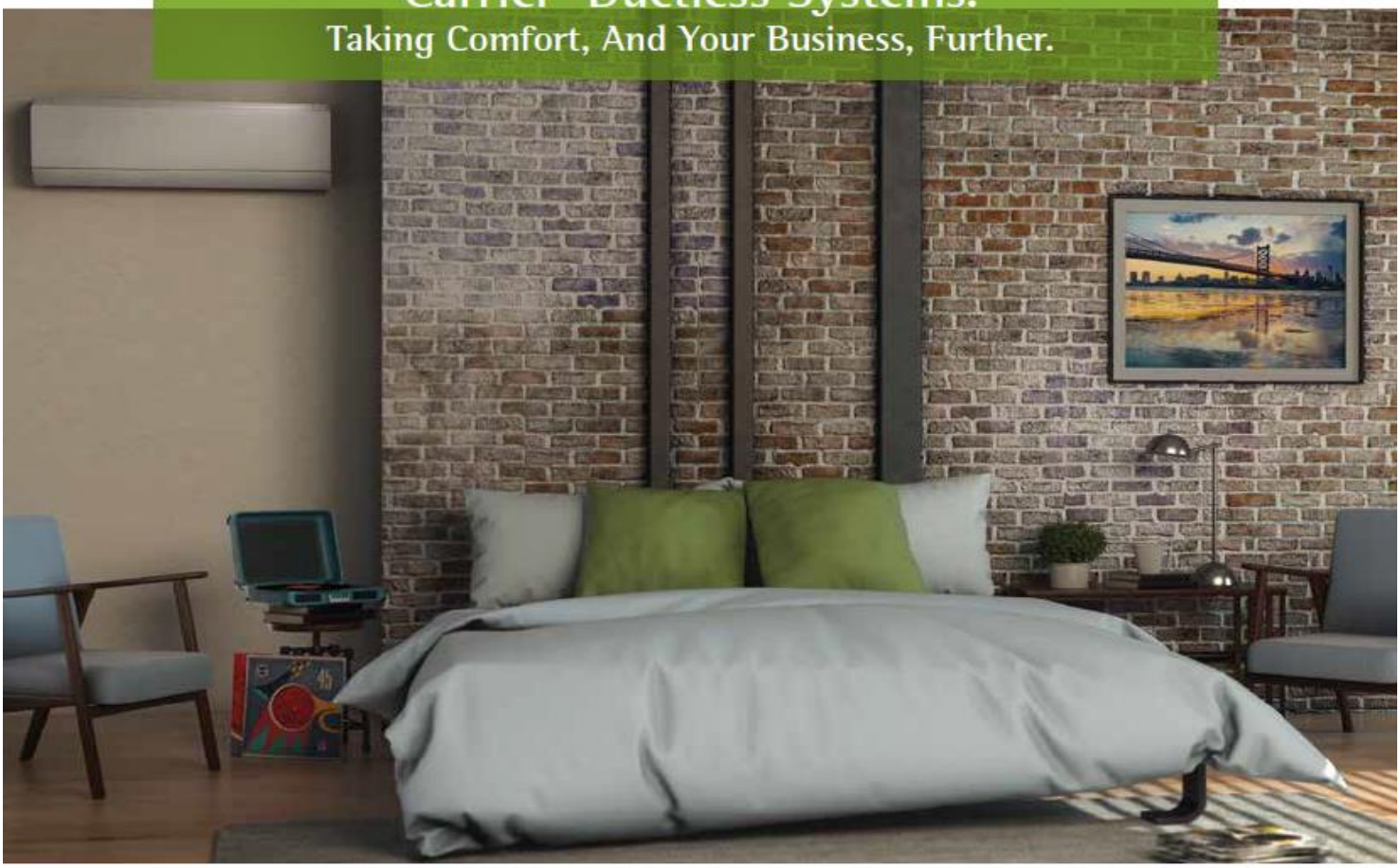
Carrier

turn to the experts

Carrier® Ductless Systems.

Taking Comfort, And Your Business, Further.



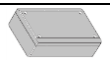
The Right Solution. Right Now.

10 Year Parts & Compressor Warranty
When Registered Within 90-Days Of Installation

Single Zone Quick Reference Guide

Ductless Systems

NOMINAL CAPACITY	SEER	EER	HSPF	INDOOR	OUTDOOR	LINE SET SIZES LIQUID X SUCTION	MIN LINE LENGTH	PRE CHARGE LENGTH	MAX LINE LENGTH	ADDITIONAL CHARGE	MAX LIFT	MCA / MOCP	BASEPAN HEATER	Warranty With Registration	WIRELESS REMOTE	WIRED CONTROLLER
*This Sheet is not intended to replace the Installation Instructions. It is a **reference guide only**. Always reference the Installation Instructions*																
Infinity® High Wall 1:1 Heat Pump					**High Heating Systems - 100% of Rated Capacity @ 0° F**											
9,000/ Gray ID	30.5	15.8	10.3	40GRQB09B--3	38GRQB09---3	1/4 X 1/2	10'	25'	82'	.20 Oz/Ft.	33'	12A/15A	Factory Installed	10 YEARS	Included	N/A
9,000/White ID	30.5	15.8	10.3	40GRQB09H--3	38GRQB09---3	1/4 X 1/2	10'	25'	82'	.20 Oz/Ft.	33'	12A/15A	Factory Installed	10 YEARS	Included	N/A
12,000/Gray ID	23.0	12.8	10.3	40GRQB12B--3	38GRQB12---3	1/4 X 1/2	10'	25'	82'	.20 Oz/Ft.	33'	13A/20A	Factory Installed	10 YEARS	Included	N/A
12,000/White ID	23.0	12.8	10.3	40GRQB12H--3	38GRQB12---3	1/4 X 1/2	10'	25'	82'	.20 Oz/Ft.	33'	13A/20A	Factory Installed	10 YEARS	Included	N/A
18,000/Gray ID	21.0	12.5	10.3	40GRQB18B--3	38GRQB18---3	1/4 X 5/8	10'	25'	82'	.20 Oz/Ft.	33'	19A/30A	Factory Installed	10 YEARS	Included	N/A
18,000/White ID	21.0	12.5	10.3	40GRQB18H--3	38GRQB18---3	1/4 X 5/8	10'	25'	82'	.20 Oz/Ft.	33'	19A/30A	Factory Installed	10 YEARS	Included	N/A
Performance™ High Wall 1:1 Heat Pump					**Standard Heating Capacity Systems**											
9,000 - 115Volt	24.5	15.0	11.2	40MAQB09B--1	38MAQB09R--1	1/4 X 3/8	10'	25'	82'	.16 Oz/Ft.	32'	15A/20A	Factory Installed	10 YEARS	Included	Optional
12,000 - 115 Volt	22.0	13.0	10.2	40MAQB12B--1	38MAQB12R--1	1/4 X 1/2	10'	25'	82'	.16 Oz/Ft.	32'	15A/20A	Factory Installed	10 YEARS	Included	Optional
30,000	19.8	11.5	9.4	40MAQB30B--3	38MAQB30R--3	3/8 X 5/8	10'	25'	164'	.32 Oz/Ft.	82'	20A/30A	Factory Installed	10 YEARS	Included	Optional
36,000	16.0	8.6	8.5	40MAQB36B--3	38MAQB36R--3	3/8 X 5/8	10'	25'	164'	.32 Oz/Ft.	82'	25A/35A	Factory Installed	10 YEARS	Included	Optional
Performance™ High Wall 1:1 Heat Pump					**High Heating Systems - 100% of Rated Capacity @ 5° F**											
9,000	25.0	14.5	11.2	40MAQB09B--3	38MAQB09R--3	1/4 X 3/8	10'	25'	82'	.16 Oz/Ft.	32'	9A/15A	Factory Installed	10 YEARS	Included	Optional
12,000	22.5	12.5	12.0	40MAQB12B--3	38MAQB12R--3	1/4 X 1/2	10'	25'	82'	.16 Oz/Ft.	32'	9A/15A	Factory Installed	10 YEARS	Included	Optional
18,000	20.0	12.5	10.3	40MAQB18B--3	38MAQB18R--3	1/4 X 1/2	10'	25'	98'	.16 Oz/Ft.	65'	18A/25A	Factory Installed	10 YEARS	Included	Optional
24,000	20.5	13.0	10.3	40MAQB24B--3	38MAQB24R--3	3/8 x 5/8	10'	25'	98'	.32 Oz/Ft.	65'	20A/30A	Factory Installed	10 YEARS	Included	Optional
Performance™ Cassette 1:1 Heat Pump					**High Heating Systems - 100% of Rated Capacity @ 5° F**											
9,000	20.0	13.0	10.8	40MBCQ09---3	38MAQB09R--3	1/4 X 3/8	10'	25'	82'	.16 Oz/Ft.	32'	9A/15A	Factory Installed	10 YEARS	Included	Optional
12,000	19.5	12.5	10.6	40MBCQ12---3	38MAQB12R--3	1/4 X 1/2	10'	25'	82'	.16 Oz/Ft.	32'	9A/15A	Factory Installed	10 YEARS	Included	Optional
16,000	20.0	12.5	10.5	40MBCQ18---3	38MAQB18R--3	1/4 X 1/2	10'	25'	98'	.16 Oz/Ft.	32'	18A/25A	Factory Installed	10 YEARS	Included	Optional
Ceiling Cassette Grille 40MBQB01C--- Required and Sold Separately																
Performance™ Console 1:1 Heat Pump					**High Heating Systems - 100% of Rated Capacity @ 5° F**											
9,000	20.0	12.5	11.6	40MBFQ09---3	38MAQB09R--3	1/4 X 3/8	10'	25'	82'	.16 Oz/Ft.	32'	9A/15A	Factory Installed	10 YEARS	Included	Optional
12,000	19.4	12.5	10.5	40MBFQ12---3	38MAQB12R--3	1/4 X 1/2	10'	25'	82'	.16 Oz/Ft.	32'	9A/15A	Factory Installed	10 YEARS	Included	Optional
Performance™ Ducted 1:1 Heat Pump					**High Heating Systems - 100% of Rated Capacity @ 5° F**											
9,000	19.0	13.0	11.1	40MBQB09D--3	38MAQB09R--3	1/4 X 3/8	10'	25'	82'	.16 Oz/Ft.	32'	9A/15A	Factory Installed	10 YEARS	Included	Included
11,000	19.0	12.5	10.5	40MBQB12D--3	38MAQB12R--3	1/4 X 1/2	10'	25'	82'	.16 Oz/Ft.	32'	9A/15A	Factory Installed	10 YEARS	Included	Included
16,000	19.6	12.5	11.0	40MBDQ18---3	38MAQB18R--3	1/4 X 1/2	10'	25'	98'	.16 Oz/Ft.	65'	18A/25A	Factory Installed	10 YEARS	Included	Included
23,000	20.5	12.5	12.5	40MBDQ24---3	38MAQB24R--3	3/8 X 5/8	10'	25'	98'	.32 Oz/Ft.	65'	20A/30A	Factory Installed	10 YEARS	Included	Included
Performance™ Ducted 1:1 Heat Pump					**Heating Capacity: 36K = 71% & 48K = 75% of Rated Capacity @ 5° F**											
36,000	16.5	9.0	11.5	40MBDQ36---3	38MBRQ36A--3	3/8 X 5/8	10'	25'	213'	.43 Oz/Ft.	82'	30A/50A	Factory Installed	10 YEARS	Included	Included
48,000	17.4	9.2	10.3	40MBDQ48---3	38MBRQ48A--3	3/8 X 5/8	10'	25'	213'	.43 Oz/Ft.	82'	35A/50A	Factory Installed	10 YEARS	Included	Included
Installation Note :	**The 38MBRQ Ducted systems require a shielded, stranded communication circuit between the indoor and outdoor units**															
Comfort™ High Wall 1:1 Heat Pump					**Standard Heating Capacity Systems**											
9,000 - 115Volt	16.0	11.0	9.0	40MHHQ09---1	38MHRQ09A--1	1/4 X 3/8	10'	25'	82'	.16 Oz/Ft.	32'	13A/20A	N/A	10 YEARS	Included	Optional
12,000 - 115 Volt	16.8	10.8	9.0	40MHHQ12---1	38MHRQ12A--1	1/4 X 1/2	10'	25'	82'	.16 Oz/Ft.	32'	13A/20A	N/A	10 YEARS	Included	Optional
9,000	16.0	10.5	9.0	40MHHQ09---3	38MHRQ09A--3	1/4 X 3/8	10'	25'	82'	.16 Oz/Ft.	32'	8A/15A	N/A	10 YEARS	Included	Optional
12,000	17.0	10.9	9.0	40MHHQ12---3	38MHRQ12A--3	1/4 X 1/2	10'	25'	82'	.16 Oz/Ft.	32'	10A/15A	N/A	10 YEARS	Included	Optional
17,000	16.0	11.0	9.0	40MHHQ18---3	38MHRQ18A--3	1/4 X 1/2	10'	25'	98'	.16 Oz/Ft.	65'	15A/20A	N/A	10 YEARS	Included	Optional
22,000	16.8	10.5	9.0	40MHHQ24---3	38MHRQ24A--3	3/8 X 5/8	10'	25'	164'	.32 Oz/Ft.	65'	18A/25A	N/A	10 YEARS	Included	Optional
Comfort™ High Wall 1:1 Cooling Only																
9,000 - 115Volt	16.6	11.6	N/A	40MHHC09---1	38MHRC09A--1	1/4 X 3/8	10'	25'	82'	.16 Oz/Ft.	32'	13A/20A	N/A	10 YEARS	Included	Optional
12,000 - 115 Volt	17.3	10.7	N/A	40MHHC12---1	38MHRC12A--1	1/4 X 1/2	10'	25'	82'	.16 Oz/Ft.	32'	13A/20A	N/A	10 YEARS	Included	Optional
9,000	16.0	10.6	N/A	40MHHC09---3	38MHRC09A--3	1/4 X 3/8	10'	25'	82'	.16 Oz/Ft.	32'	7A/15A	N/A	10 YEARS	Included	Optional
12,000	16.5	10.8	N/A	40MHHC12---3	38MHRC12A--3	1/4 X 1/2	10'	25'	82'	.16 Oz/Ft.	32'	7A/15A	N/A	10 YEARS	Included	Optional
18,000	17.0	10.5	N/A	40MHHC18---3	38MHRC18A--3	1/4 X 1/2	10'	25'	98'	.16 Oz/Ft.	65'	11A/15A	N/A	10 YEARS	Included	Optional
24,000	17.5	10.9	N/A	40MHHC24---3	38MHRC24A--3	3/8 X 5/8	10'	25'	164'	.32 Oz/Ft.	65'	16A/25A	N/A	10 YEARS	Included	Optional
* Warranty registration required except in CA and Quebec. In Commercial applications, Warranty is 7 Years P/C with Registration																
Control Wiring	See installation Instructions 14/3 Stranded Wire with Ground is the required Control wiring between the indoor and outdoor units															

Sensibo®	**Mid-Tier Ducted**	**SEN-INS-CAR-01**		**24 Volt Interface**	**Volt-Ph**	**Kit Number**		
	Mid-Tier Cassette & Floor Console	**SEN-INS-CAR-02**			115-1	KSAIC0101115	**1 to 1 Performance™ & Comfort™ Series ONLY**	
	Mid-Tier High Wall	**SEN-INS-CAR-03**			208/230-1	KSAIC0101230		

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MGR Multi-Zone Heat Pumps

Two zone minimum connection required on all units.
Port adaptors included with the outdoor unit and no branch box required

Performance™ Multi-Zone Heat Pump

OUTDOOR UNIT	MAX ZONES	MAX HEATING CAPACITY BTU's / %			PORT COMBINATIONS		MIN LINE LENGTH	MAX ZONE LENGTH	TOTAL LINE LENGTH	PRE CHARGE LENGTH	MAX LIFT	MCA	MOCP	BASEPAN HEATER	Warranty With Registration
		@ 5° F	@ -13° F	@ -22° F	Liquid Line	Suction Line									
38MGRQ18B--3	2	13,900 / 73%	6,540 / 34%	5,520 / 29%	2 @ 1/4"	2 @ 3/8"	10'	82'	131'	49'	49'	18A	25A	Factory Installed	10 YEARS
38MGRQ24C--3	3	23,000 / 100%	17,590 / 77%	13,850 / 60%	3 @ 1/4"	3 @ 3/8"	10'	98'	197'	74'	49'	25A	35A	Factory Installed	10 YEARS
38MGRQ30D--3	4	28,000 / 100%	20,650 / 74%	16,700 / 60%	4 @ 1/4"	3 @ 3/8" 1 @ 1/2"	10'	115'	263'	98'	49'	30A	45A	Factory Installed	10 YEARS
38MGRQ36D--3	4	36,000 / 100%	27,690 / 77%	23,030 / 64%	4 @ 1/4"	3 @ 3/8" 1 @ 1/2"	10'	115'	328'	123'	65'	35A	50A	Factory Installed	10 YEARS
38MGRQ48E--3	5	36,000 / 75%	28,050 / 58%	23,330 / 49%	5 @ 1/4"	3 @ 3/8" 2 @ 1/2"	10'	115'	328'	123'	65'	35A	50A	Factory Installed	10 YEARS

Indoor Units and the Approved Combinations

Ducted Unit	Ceiling Cassette	Performance™ High Wall	Comfort™ High Wall	Console
Ducted Models	Cassette Models	High Wall Models	High Wall Models	Console Models
40MBQB09D--3	40MBCQ09---3	40MAQB09B--3	40MHHQ09---3	40MBFQ09---3
40MBQB12D--3	40MBCQ12---3	40MAQB12B--3	40MHHQ12---3	40MBFQ12---3
40MBDQ18---3	40MBCQ18---3	40MAQB18B--3	40MHHQ18---3	
40MBDQ24---3	Grille Part # 40MBQB01C---	40MAQB24B--3	40MHHQ24---3	

Rated Combinations

Outdoor Models	Two Zones			Three Zones					Four Zones					Five Zones			
38MGRQ18B--3		9+9															
		9+12															
		12+12															
38MGRQ24C--3	9+9	12+12		9+9+9	9+12+12												
	9+12	12+18		9+9+12	12+12+12												
	9+18	18+18		9+9+18													
38MGRQ30D--3				9+9+9	9+18+18												
	9+9	12+12		9+9+12	12+12+12				9+9+9+9	9+9+12+18							
	9+12	12+18		9+9+18	12+12+18				9+9+9+12	9+12+12+12							
	9+18	12+24		9+12+12	12+18+18				9+9+9+18	12+12+12+12							
	9+24	18+18		9+12+18	12+12+24				9+9+12+12								
38MGRQ36D--3	9+18	12+12		9+9+9	9+12+24	12+12+24			9+9+9+9	9+12+12+12							
	9+24	12+18		9+9+12	9+18+18	12+18+18			9+9+9+12	9+12+12+18							
		12+24		9+9+18	9+18+24	12+18+24			9+9+9+18	9+12+12+24							
		18+18		9+9+24	9+24+24	12+24+24			9+9+9+24	9+12+18+18							
		18+24		9+12+12	12+12+12	18+18+18			9+9+12+12	9+18+18+18							
		24+24		9+12+18	12+12+18	18+18+24			9+9+12+18	12+12+12+12							
									9+9+12+24	12+12+12+18							
									9+9+18+18	12+12+12+24							
									9+9+18+24	12+12+18+18							
38MGRQ48E--3		9+18		9+9+9	9+24+24				9+9+9+9	9+12+12+12							
		9+24		9+9+12	12+12+12				9+9+9+12	9+12+12+18							
		12+12		9+9+18	12+12+18				9+9+9+18	9+12+12+24				9+9+9+9+9		9+9+9+18+18	
		12+18		9+9+24	12+12+24				9+9+9+24	9+12+18+18				9+9+9+9+12		9+9+12+12+12	
		12+24		9+12+12	12+18+18				9+9+12+12	9+18+18+18				9+9+9+9+18		9+9+12+12+18	
		18+18		9+12+18	12+18+24				9+9+12+18	12+12+12+12				9+9+9+9+24		9+12+12+12+12	
		18+24		9+12+24	12+24+24				9+9+12+24	12+12+12+18				9+9+9+12+12		9+12+12+12+18	
		24+24		9+18+18	18+18+18				9+9+18+18	12+12+12+24				9+9+9+12+18		12+12+12+12+12	
				9+18+24	18+18+24				9+9+18+24	12+12+18+18							

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Performance SERIES

Optional

Included

Heat Pump with factory installed base pan heater – Variable Speed System

*MA*R Series High-Wall Single Zone Heat Pump with Inverter Technology*

Outdoor Unit 208/230V	Indoor Unit 208/230V	Rated Cooling Btuh	Rated Heating Btuh	SEER	EER	HSPF	Heating Capacity BTU's / % of rated At 5°F Outdoor Ambient	At -13°F Outdoor Ambient	At -22°F Outdoor Ambient
38MAQB09R--3	40MAQB09B--3	9,000	10,900	25.0	14.5	11.2	12,010 / 110%	9,020 / 83%	5,310 / 49%
38MAQB12R--3	40MAQB12B--3	12,000	12,000	22.5	12.5	12.0	12,010 / 102%	9,020 / 75%	5,310 / 44%
38MAQB18R--3	40MAQB18B--3	17,000	18,000	20.0	12.5	10.3	18,520 / 103%	16,520 / 92%	12,420 / 69%
38MAQB24R--3	40MAQB24B--3	24,000	24,000	20.5	12.5	10.3	24,030 / 100%	16,520 / 69%	15,050 / 63%
38MAQB30R--3	40MAQB30B--3	30,000	30,000	19.8	11.5	9.4	16,380 / 55%	14,320 / 48%	12,850 / 43%
38MAQB36R--3	40MAQB36B--3	36,000	36,000	16.0	8.6	8.5	16,380 / 46%	14,320 / 40%	13,800 / 38%

Indoor unit is powered from outdoor unit. **Indoor Conditions DB 69°F**

Carrier Duct-Free System Accessories Compatible With 40MAQBxxB--3 High Wall IDU's

Accessory Model	Description	Notes
KSACN0101AAA	Non-Programmable Wired Wall Mount Controller	Includes 19ft cable / max 66ft
17401204001601	19ft Extension Cable Kit for KSCAN0101AAA	Sold separately through RCD
KSACN0401AAA	Programmable Wired Wall Mount Controller	Includes 19ft cable / max 66ft
17317100A11505	Programmable Cooling Only Wired Controller	Includes 19ft cable / max 66ft
17401204000769	19ft Extension Cable Kit for KSCAN0401AAA & 17317100A11505 (through RCD)	
17317100A33862	Cooling Only Wireless Remote Control	Non-Programmable

Misc. Operational Data	*9,000*	*12,000*	*18,000*	*24,000*	*30,000*	*36,000*
Cooling Cap. Range; Min-Max Btu/h	3,500-13,000	4,000-13,800	4,500-18,800	5,500-24,500	8,000-30,500	8,000-36,200
Heating Cap. Range; Min-Max Btu/h	4,500-14,500	5,000-15,500	5,500-24,000	6,000-32,000	9,000-34,000	9,000-37,000
Cooling Outdoor DB Min - Max °F	Outdoor Ambient -13°F to 122°F					
Heating Outdoor DB Min - Max °F	Outdoor Ambient -22°F to 86°F					
Maximum Line Set Length	82 Feet		98 Feet		164 Feet	
Maximum Elevation / Lift	32 Feet		65 Feet		82 Feet	
Minimum Line Set Length	10 Feet		10 Feet		10 Feet	
Precharged for 25ft of line set	Weigh In 0.16oz/ft >25ft			Weigh In 0.32oz/ft >25ft		
ODU Precharged R410a	3.31 lbs	3.31 lbs	4.30 lbs	5.73 lbs	6.06 lbs	7.50 lbs
Liquid Line Connection Size	1/4"			3/8"		
Suction/Vapor Line Connection Size	3/8"	1/2"		5/8"		
Minimum Circuit Ampacity	9A	9A	18A	20A	20A	25A
Maximum Over-Current Protection	15A	15A	25A	30A	30A	35A
Controller Set Point Range	62°F to 86° Applicable to Heating Mode and Cooling Mode; Wired or Wireless Controllers					

Performance SERIES

Included

Optional

Heat Pump with factory installed base pan heater – Variable Speed System

*MA*R Series Ceiling Cassette Single Zone Heat Pump with Inverter Technology*									
Outdoor Unit 208/230V	**Indoor Unit 208/230V** *requires 40MBQB01C--- ceiling grille*	**Rated Cooling Btuh**	**Rated Heating Btuh**	**SEER**	**EER**	**HSPF**	**Heating Capacity BTU's / % of rated**		
							At 5°F Outdoor Ambient	**At -13°F Outdoor Ambient**	**At -22°F Outdoor Ambient**
38MAQB09R--3	**40MBQB09C--3**	9,000	9,000	20.0	13.0	10.8	10,472 / 116%	7,320 / 81%	7,160 / 80%
	40MBCQ09---3								
38MAQB12R--3	**40MBQB12C--3**	12,000	12,000	19.5	12.5	10.6	12,220 / 102%	7,540 / 63%	6,890 / 57%
	40MBCQ12---3								
38MAQB18R--3	**40MBQB18C--3**	18,000	16,000	20.0	12.5	10.5	19,005 / 119%	12,589 / 79%	11,910 / 74%
	40MBCQ18---3								
							Indoor Conditions DB 69°F		

Indoor unit is powered from outdoor unit.

Indoor unit ceiling grille required and SOLD SEPARATELY *p/n: 40MBQB01C---*

Indoor unit includes integrated condensate lift pump. Drain line connection 25mm or 0.98" outside diameter.

Carrier Duct-Free System Accessories Compatible With 40MBQBxxC--3 Cassette IDU's		
Accessory Model	**Description**	**Notes**
KSACN0101AAA	Non-Programmable Wired Wall Mount Controller	Includes 19ft cable / max 66ft
17401204001601	19ft Extension Cable Kit for KSCAN0101AAA	Sold separately through RCD
KSACN0501AAA	Programmable Wired Wall Mount Controller	Includes 19ft cable / max 66ft
17317100A11945	Programmable Cooling Only Wired Controller	Includes 19ft cable / max 66ft
17401204000769	19ft Extension Cable Kit for KSCAN0501AAA & 17317100A11945 (through RCD)	
17317100A33862	Cooling Only Wireless Remote Control	Non-Programmable

Misc. Operational Data	*9,000*	*12,000*	*18,000*
Cooling Cap. Range; Min-Max Btu/h	**3,500 - 11,000**	**4,000 - 13,000**	**4,500 - 18,000**
Heating Cap. Range; Min-Max Btu/h	**4,500 - 11,500**	**5,000 - 13,500**	**5,500 - 19,000**
Cooling Outdoor DB Min - Max °F	**Outdoor Ambient -13°F to 122°F**		
Heating Outdoor DB Min - Max °F	**Outdoor Ambient -22°F to 86°F**		
Maximum Line Set Length	**82 Feet**	**82 Feet**	**98 Feet**
Maximum Elevation / Lift	**32 Feet**	**32 Feet**	**65 Feet**
Minimum Line Set Length	**10 Feet**	**10 Feet**	**10 Feet**
Precharged for 25ft of line set	**Weigh In 0.16oz/ft >25ft**		
ODU Precharged R410a	**3.31 lbs**	**3.31 lbs**	**4.30 lbs**
Liquid Line Connection Size	**1/4"**	**1/4"**	**1/4"**
Suction/Vapor Line Connection Size	**3/8"**	**1/2"**	**1/2"**
Minimum Circuit Ampacity	**9A**	**9A**	**18A**
Maximum Over-Current Protection	**15A**	**15A**	**25A**
Controller Set Point Range	**62°F to 86° Applicable to Heating Mode and Cooling Mode; Wired or Wireless Controllers**		

Performance SERIES

Included

Optional

Heat Pump with factory installed base pan heater – Variable Speed System

*MA*R Series Floor Console Single Zone Heat Pump with Inverter Technology*									
Outdoor Unit 208/230V	**Indoor Unit 208/230V**	**Rated Cooling Btuh**	**Rated Heating Btuh**	**SEER**	**EER**	**HSPF**	**Heating Capacity BTU's / % of rated At 5°F Outdoor Ambient**	**At -13°F Outdoor Ambient**	**At -22°F Outdoor Ambient**
38MAQB09R--3	**40MBQB09F--3**	8,500	9,000	20.0	12.5	11.6	9,989 / 111%	7,952 / 88%	7,820 / 87%
	40MBFQ09---3								
38MAQB12R--3	**40MBQB12F--3**	12,000	12,000	19.4	12.5	10.5	12,010 / 100%	8,151 / 68%	7,290 / 61%
	40MBFQ12---3								
Indoor unit is powered from outdoor unit.							**Indoor Conditions DB 69°F**		

Carrier Duct-Free System Accessories Compatible With 40MBQBxxF--3 Floor Console IDU's		
Accessory Model	**Description**	**Notes**
KSACN0101AAA	Non-Programmable Wired Wall Mount Controller	Includes 19ft cable / max 66ft
17401204001601	19ft Extension Cable Kit for KSCAN0101AAA	Sold separately through RCD
KSACN0401AAA	Programmable Wired Wall Mount Controller	Includes 19ft cable / max 66ft
17317100A11505	Programmable Cooling Only Wired Controller	Includes 19ft cable / max 66ft
17401204000769	19ft Extension Cable Kit for KSCAN0401AAA & 17317100A11505 (through RCD)	
17317100A33862	Cooling Only Wireless Remote Control	Non-Programmable

Misc. Operational Data	*9,000*	*12,000*
Cooling Cap. Range; Min-Max Btu/h	**3,500 - 11,000**	**4,000 - 13,000**
Heating Cap. Range; Min-Max Btu/h	**4,500 - 11,500**	**5,000 - 13,500**
Cooling Outdoor DB Min - Max °F	**Outdoor Ambient -13°F to 122°F**	
Heating Outdoor DB Min - Max °F	**Outdoor Ambient -22°F to 86°F**	
Maximum Line Set Length	**82 Feet**	
Maximum Elevation / Lift	**32 Feet**	
Minimum Line Set Length	**10 Feet**	
Precharged for 25ft of line set	**Weigh In 0.16oz/ft >25ft**	
ODU Precharged R410a	**3.31 lbs**	**3.31 lbs**
Liquid Line Connection Size	**1/4"**	**1/4"**
Suction/Vapor Line Connection Size	**3/8"**	**1/2"**
Minimum Circuit Ampacity	**9A**	**9A**
Maximum Over-Current Protection	**15A**	**15A**
Controller Set Point Range	**62°F to 86° Applicable to Heating Mode and Cooling Mode; Wired or Wireless Controllers**	

Performance SERIES

40MBQB*D

40MBDQ

Includes Both Controllers

Heat Pump with factory installed base pan heater – Variable Speed System

*MA*R Series Ducted Single Zone Heat Pump with Inverter Technology*

Outdoor Unit 208/230V	Indoor Unit 208/230V	Rated Cooling Btuh	Rated Heating Btuh	SEER	EER	HSPF	Heating Capacity BTU's / % of rated At 5°F Outdoor Ambient	At -13°F Outdoor Ambient	At -22°F Outdoor Ambient
38MAQB09R--3	40MBQB09D--3	9,000	10,000	19.0	13.0	11.1	11,068 / 111%	8,353 / 84%	8,114 / 81%
38MAQB12R--3	40MBQB12D--3	11,500	12,000	19.0	12.5	10.5	12,300 / 103%	8,562 / 71%	7,790 / 65%
38MAQB18R--3	40MBDQ18---3	16,500	18,000	19.6	12.5	11.0	18,920 / 105%	12,509 / 69%	11,650 / 65%
	40MBQB18D--3	16,500	18,000	19.6	12.5	10.5	18,920 / 105%	12,509 / 69%	11,650 / 65%
38MAQB24R--3	40MBDQ24---3	24,000	24,000	20.5	12.5	12.5	25,042 / 104%	16,520 / 69%	15,250 / 64%
	40MBQB24D--3	24,000	24,000	20.5	12.5	11.5	25,042 / 104%	16,520 / 69%	15,250 / 64%
38MBRQ36A--3	40MBDQ36---3	36,000	38,000	15.5	8.5	10.5	25,300 / 67%	17,570 / 46%	14,680 / 39%
38MBRQ48A--3	40MBDQ48---3	48,000	51,000	17.4	8.9	10.3	34,000 / 67%	27,120 / 53%	24,650 / 48%

Indoor unit is powered from outdoor unit.

Indoor Conditions DB 69°F

Indoor unit includes integrated condensate lift pump. Drain line connection 25mm or 0.98" outside diameter.

Carrier Duct-Free System Accessories Compatible With 40MBQB & 40MBDQ Ducted IDU's

Accessory Model	Description	Notes
KSACN0101AAA	Non-Programmable Wired Wall Mount Controller	Includes 19ft cable / max 66ft
17401204001601	19ft Extension Cable Kit for KSCAN0101AAA	Sold separately through RCD
KSACN0501AAA	Programmable Wired Wall Mount Controller	Includes 19ft cable / max 66ft
17317100A11945	Programmable Cooling Only Wired Controller	Includes 19ft cable / max 66ft
17401204000769	19ft Extension Cable Kit for KSCAN0501AAA & 17317100A11945 (through RCD)	
17317100A33862	Cooling Only Wireless Remote Control	Non-Programmable

Misc. Operational Data	*9,000*	*12,000*	*18,000*	*24,000*	*36,000*	*48,000*
Cooling Cap. Range; Min-Max Btu/h	3,500-11,000	4,000-13,000	4,500-18,800	5,500-24,500	8,500-38,000	9,000-50,000
Heating Cap. Range; Min-Max Btu/h	4,500-11,500	5,000-13,500	5,500-19,000	6,000-26,000	9,500-50,000	10,000-55,000
Cooling Outdoor DB Min - Max °F	Outdoor Ambient -13°F to 122°F					
Heating Outdoor DB Min - Max °F	Outdoor Ambient -22°F to 86°F					
Maximum Line Set Length	82 Feet		98 Feet		213 Feet	
Maximum Elevation / Lift	32 Feet		65 Feet		98 Feet	
Minimum Line Set Length	10 Feet		10 Feet		10 Feet	
Precharged for 25ft of line set; oz/ft >25ft	Weigh in 0.16oz/ft >25ft			0.32oz/ft	Weigh in 0.43oz/ft>25ft	
ODU Precharged R410a	3.31 lbs	3.31 lbs	4.30 lbs	5.73 lbs	6.72 lbs	9.26 lbs
Liquid Line Connection Size	1/4"			3/8"		
Suction/Vapor Line Connection Size	3/8"	1/2"		5/8"		
Minimum Circuit Ampacity	9A	9A	18A	20A	30A	35A
Maximum Over-Current Protection	15A	15A	25A	30A	50A	50A
Controller Set Point Range	62°F to 86° Applicable to Heating Mode and Cooling Mode; Wired or Wireless Controllers					
Factory Set Static Pressure In. WG	0.02	0.02	ECM Blwr Mtr Automatically Adjusts Uo To Max ESP			
Max. External Static Pressure In. WG.	0.18	0.18	0.40	0.64	0.64	0.64

Comfort SERIES

Included

Optional

Carrier Comfort Series 40MHHQ High-Wall Heat Pumps with Inverter Technology

Outdoor Unit	Indoor Unit	Cool Btuh	Heat Btuh	SEER	EER	HSPF	MCA MOPA	Heating BTU's / % of rated at 5°F Outdoor Ambient	
38MHRQ09A--1*	40MHHQ09---1	9,000	9,800	16.0	11.0	9.0	13A / 20A	6,100 / 62%	At 69°F Indoor
38MHRQ12A--1*	40MHHQ12---1	12,000	12,000	16.8	10.8	9.0	13A / 20A	5,370 / 45%	
38MHRQ09A--3**	40MHHQ09---3	8,500	9,800	16.0	10.5	9.0	8A / 15A	5,700 / 58%	
38MHRQ12A--3**	40MHHQ12---3	12,000	12,000	17.0	10.9	9.0	10A / 15A	6,070 / 51%	
38MHRQ18A--3**	40MHHQ18---3	18,000	18,000	16.0	11.0	9.0	15A / 20A	9,670 / 54%	
38MHRQ24A--3**	40MHHQ24---3	22,000	25,000	16.8	10.5	9.0	18A / 25A	14,920 / 60%	

Carrier Comfort Series 40MHHC High-Wall Cooling Only with Inverter Technology

Outdoor Unit	Indoor Unit	Outdoor Volts	Cool Btuh	SEER	EER	MCA	MOPA	Cooling Range BTU Min - Max
38MHRC09A--1*	40MHHC09---1	120/1/60	9,000	16.6	11.6	13A	20A	4,400 - 10,200
38MHRC12A--1*	40MHHC12---1	120/1/60	12,000	17.3	10.7	13A	20A	4,800 - 13,200
38MHRC09A--3**	40MHHC09---3	208-230/1/60	9,000	16.0	10.6	7A	15A	4,400 - 10,000
38MHRC12A--3**	40MHHC12---3	208-230/1/60	12,000	16.5	10.8	7A	15A	4,800 - 13,000
38MHRC18A--3**	40MHHC18---3	208-230/1/60	18,000	17.0	10.5	11A	15A	5,800 - 18,600
38MHRC24A--3**	40MHHC24---3	208-230/1/60	24,000	17.5	10.9	16A	25A	9,400 - 25,200

***System Voltage is 120/1/60. **System voltage is 208-230/1/60. Indoor unit is powered from outdoor unit.**

Wireless remote control included with indoor unit. Wired remote control accessory available separately.

Carrier MHHQ/MHHC System Accessories

Accessory Model	Description	Notes
KSACN0401AAA	Programmable Wired Wall Mount Controller	Includes 19ft cable / max 66ft
17317100A11505	Programmable Cooling Only Wired Controller	Includes 19ft cable / max 66ft
17401204000769	19ft Extension Cable Kit for KSCAN0401AAA & 17317100A11505 (through RCD)	
17317100A33862	Cooling Only Wireless Remote Control	Non-Programmable

Miscellaneous Operational Data

System BTU Size	9K	12K	18K	24K
Liquid X Vapor	1/4" X 3/8"	1/4" X 1/2"	1/4" X 1/2"	3/8" X 5/8"
Max L / Max E / Min L	82ft / 32ft / 10ft		98ft / 65ft / 10ft	164ft / 65ft / 10ft
Refrigerant	Pre-charged for 25ft of line set. Add 0.161oz per foot over 25ft.			Add 0.322oz/ft over 25ft
MHRQ ODU Precharge R410a	1.76 lbs	2.11 lbs	2.82 lbs	3.97 lbs
MHRC ODU Precharge R410a	1.06 lbs	1.30 lbs	2.09 lbs	2.64 lbs
MHRQ Cooling; Min - Max Btu/h	2,400 - 10,500	3,000 - 12,500	3,500 - 19,800	4,000 - 24,200
MHRQ Heating; Min - Max Btu/h	2,500 - 11,800	3,000 - 12,800	3,500 - 19,800	4,000 - 24,200
Cooling Outdoor DB Min - Max °F	Outdoor Ambient 0°F to 122°F			
Heating Outdoor DB Min - Max °F	Outdoor Ambient 0°F to 86°F (Heat Pump Only)			
Controller Set Point Range	62°F to 86° Applicable to Heating Mode and Cooling Mode; Wired or Wireless Controllers			

Comfort SERIES

Included

Optional

Carrier Comfort MFQ Series High-Wall Heat Pumps with Inverter Technology

Outdoor Unit	Indoor Unit	Cool Btuh	Heat Btuh	SEER	EER	HSPF	MCA MOPA	Heating Cap BTU's / % @ 20°F Outdoor Ambient
38MFQ009---1*	40MFQ009---1	9,000	9,000	15.0	10.5	8.2	19A / 30A	6,100 / 68%
38MFQ012---1*	40MFQ012---1	12,000	12,000	15.0	9.5	8.2	19A / 30A	6,150 / 51%
38MFQ012---3**	40MFQ012---3	12,000	12,000	15.0	9.5	8.2	10A / 15A	6,150 / 51%
38MFQ017---3**	40MFQ017---3	17,000	18,000	15.0	10.5	8.2	14A / 20A	9,490 / 53%
38MFQ022---3**	40MFQ022---3	22,000	22,000	15.0	9.5	8.2	16A / 25A	11,260 / 51%

At 69°F Indoor DB

Carrier Comfort MFC Series High-Wall Cooling Only with Inverter Technology

Outdoor Unit	Indoor Unit	Outdoor Volts	Cool Btuh	SEER	EER	MCA	MOPA		
38MFC009---1*	40MFC009---1	120/1/60	9,000	15.0	10.0	19A	30A		
38MFC012---1*	40MFC012---1	120/1/60	12,000	15.0	9.0	19A	30A		
38MFC012---3**	40MFC012---3	208-230/1/60	12,000	15.0	9.0	10A	15A		
38MFC018---3**	40MFC018---3	208-230/1/60	18,000	15.0	8.5	14A	20A		
38MFC022---3**	40MFC022---3	208-230/1/60	22,000	15.0	10.0	16A	25A		

***Outdoor Voltage is 120/1/60. **Outdoor voltage is 208-230/1/60. Indoor unit is powered from outdoor unit.**

Wireless remote control included with indoor unit. Wired remote control accessory available separately.

Carrier MFQ/MFC System Accessories

Accessory Model	Description	Application
53DS-900---059	Wireless Controller Locking Mount	All MFC/MFQ Series
53DS-900---117	Condensate Pump	MFC/MFQ 9K & 12K (115 V)
53DS-900---118	Condensate Pump	MFC/MFQ 12K, 18K, 22K (230 V)
KSACN0101AAA	Optional Wired Remote Controller	All MFC/MFQ Series

Miscellaneous Operational Data

System BTU Size	9K	12K	17K & 18K	22K
Liquid X Vapor	1/4" X 3/8"	1/4" X 1/2"	1/4" X 1/2"	3/8" X 5/8"
Max L / Max E / Min L	65ft / 25ft / 10ft		65ft / 30ft / 10ft	98ft / 30ft / 10ft
Refrigerant	Pre-charged for 25ft of line set. Add 0.16oz per foot over 25ft.			Add 0.32oz/ft over 25ft
MFQ ODU Precharged R410a	2.60 lbs	2.60 lbs	2.87 lbs	3.52 lbs
MFC ODU Precharged R410a	1.43 lbs	1.43 lbs	1.87 lbs	2.60 lbs
Cooling Range; Min - Max Btu/h	4,000 - 10,000	4,500 - 13,000	5,500 - 19,000	6,500 - 24,000
Heating Range; Min - Max Btu/h	4,000 - 10,500	4,500 - 13,000	5,500 - 19,500	6,500 - 24,000
Cooling Outdoor DB Min - Max °F	Outdoor Ambient 14°F to 115°F			
Heating Outdoor DB Min - Max °F	Outdoor Ambient 5°F to 75°F (Heat Pump Only)			

Controls Compatibility

Carrier

Wired Controller Model #	Timer Function	7-Day Programmable	40MAQ	40MBQB*C	40MBCQ	40MBQB*D	40MBDQ	40MBQB*F	40MBFQ	40MF	40MHH	40GRQ	40GJB	40GJF	40GJD	40GJC	40MK*	19ft Wire Extension Kit Part Number 17401204001601	4003800101	40010232	17401204000769
KSACN0101AAA	X		○	○	○	●	○	○	○								○	X			
KSACN0201AAA	X												○						X		
KSACN0301AAA	X														●	●				X	
KSACN0401AAA		X	○ †						○		○										X
KSACN0501AAA		X		○	○	○	●														X
CÔR**		X	○		○		○		○		○										
SENSIBO®		X	○	○	○	○	○	○	○												

●	Standard
○	Optional
PHASING OUT	

Notes:

† 7-Day programmable compatible with indoor units beginning with Serial Number 0216V10001.

* Available on all sizes beginning with Serial Number 5115V00000.

** Using 24V Interface; Compatible with indoor units beginning with Serial Number 4216V10001.

KSAIC0101115	*Use on applicable 115V Ductless systems*
KSAIC0101230	*Use on applicable 230V Ductless systems*
KSAIC0201230	*Use on 230V Multi-Family FFMA & FPMB fan coil units*

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SEN-INS-CAR-01	*Use on all sizes 40MB Ceiling Concealed Ducted*
SEN-INS-CAR-02	*Use on all sizes 40MB Ceiling Cassette & Floor Console)*
SEN-INS-CAR-03	*Use on all sizes 40MAQBxxB (115V & 230V) High Wall*

Cooling Only Controllers	Part Number	Models
Wireless Remote Controller	17317000A33862	40MAQ, 40MBD, 40MBDQ, 40MBF, 40MBFQ, 40MBC, 40MBCQ, 40MHHQ
Wired controller for High Wall/Floor Console (after improved) 7 day programmable	17317100A11505	40MAQ, 40MBFQ, 40MBF, 40MHHQ
Wired controller for Cassette/Ducted 7 day programmable	17317100A11945	40MBCQ, 40MBDQ, 40MBD

The new COOLING ONLY Wireless and Wired Controllers that do not have the Heat Mode and the Auto Mode are now available through RCD. All the other features are available, but with these you can lock out the heating function on the system.

*40MAQ High Wall indoor units beginning with serial number sequence 0216V100001 are compatible with Wired Controllers. Units manufactured prior to this require a control board replacement.

The only one that is not backward compatible is the Floor Console which to be compatible with the 7 day programmable thermostat needs new software and started with the production of **January 2017**.

These model numbers are also available on EPIC under each model number. Here's the link for EPIC for your reference: http://www.apps1.hvacpartners.com/SeamlessSignOn/Epic/?AppId=MBEpic

These are available for purchase through RCD. Please contact RCDCustomer.Service@carrier.utc.com directly for quoting or ordering.

Performance SERIES

Heat Pump with factory installed base pan heater – Variable Speed System

Carrier Performance Series MGR Series Multi-Split Heat Pumps with Inverter Technology

Outdoor Units	Min 2 Zones All Sizes Max Zones	Rated Cooling Btuh	Rated Heating Btuh	SEER / EER / HSPF When All IDU's Are Non-Ducted	Heating Capacity BTU's / % of rated		
					At 5°F Outdoor Ambient	At -13°F Outdoor Ambient	At -22°F Outdoor Ambient
38MGRQ18B--3	2	18,000	19,000	22.5 / 12.5 / 10.3	13,900 / 73%	6,540 / 34%	5,520 / 29%
38MGRQ24C--3	3	24,000	23,000	23.0 / 12.5 / 9.8	23,000 / 100%	17,590 / 77%	13,850 / 60%
38MGRQ30D--3	4	30,000	28,000	23.8 / 12.5 / 10.0	28,000 / 100%	20,650 / 74%	16,700 / 60%
38MGRQ36D--3	4	36,000	36,000	21.5 / 13.5 / 10.5	36,000 / 100%	27,690 / 77%	23,030 / 64%
38MGRQ48E--3	5	48,000	48,000	22.4 / 12.5 / 10.2	36,000 / 75%	28,050 / 58%	23,330 / 49%
					Indoor Conditions DB 69°F		

Outdoor Voltage is 208-230/1/60. Indoor units are powered from outdoor unit.

ADDITIONAL INFORMATION:	38MGRQ18B--3	38MGRQ24C--3	38MGRQ30D--3	38MGRQ36D--3	38MGRQ48E--3
Cooling Cap. Range; Min-Max Btu/h	5,810 - 21,940	7,880 - 33,150	8,090 - 41,470	8,560 - 45,020	8,560 - 53,160
Heating Cap. Range; Min-Max Btu/h	5,760 - 24,480	6,010 - 36,180	6,350 - 41,950	7,210 - 50,350	7,210 - 55,820
Cooling Outdoor DB Min - Max °F	**Outdoor Ambient -13°F to 122°F**				
Heating Outdoor DB Min - Max °F	**Outdoor Ambient -22°F to 86°F**				
Maximum Total Length Line Sets	131ft	197ft	263ft	328ft	328ft
Max Length to furthest Indoor Unit	82ft	98ft	115ft	115ft	115ft
Min Length to any Indoor Unit	10ft	10ft	10ft	10ft	10ft
Max Elevation (IDU over/under ODU)	49ft	49ft	49ft	65t	65ft
Max Elevation (IDU to IDU)	32ft	32ft	32ft	32ft	32ft
Pre-charged for XXft / add 0.16oz per foot	49 ft / 0.16oz	74 ft / 0.16oz	98 ft / 0.16oz	123 ft / 0.16oz	123 ft / 0.16oz
R410a Refrigerant Pre-Charged Amount	4.4 lbs	6.17 lbs	6.61 lbs	10.13 lbs	10.13 lbs
Unit Width Inches (mm)	37.31 (948)	41.22 (1047)	41.22 (1047)	41.15 (1045)	41.15 (1045)
Unit Height Inches (mm)	27.64 (702)	31.88 (810)	31.88 (810)	52.48 (1333)	52.48 (1333)
Unit Depth Inches (mm)	14.82 (376)	17.91 (455)	17.91 (455)	17.63 (448)	17.63 (448)
Unit Net Weight Pounds (kg)	105.8 (48)	149.9 (68)	156.5 (71)	221.6 (100.5)	223.8 (101.5)
Liquid Line Connections	1/4" (2)	1/4" (3)	1/4" (4)	1/4" (4)	1/4" (5)
Vapor Line Connections	3/8" (2)	3/8" (3)	3/8" (3), 1/2" (1)	3/8" (3), 1/2" (1)	3/8" (3), 1/2" (2)
Max Connected BTU's	24,000	36,000	48,000	63,000	63,000
Minimum Circuit Ampacity	18A	25A	30A	35A	35A
Maximum Over-Current Protection	25A	35A	45A	50A	50A

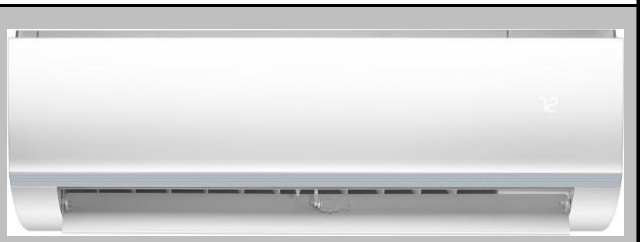
Conversion Joints Shipped With 38MGR Series Multi-Zone Outdoor Units

MODEL #	ADAPTER SIZE	QTY	RCD PART NUMBER	
38MGRQ18B--3	3/8" x 1/2"	2	15500307000001	*
38MGRQ24C--3	3/8" x 1/2"	2	15500307000001	*
38MGRQ30D--3	3/8" x 1/2"	3	15500307000001	*
	1/2" x 3/8"	1	15111600000083	
	1/4" x 3/8"	1	15111600000081	
	1/2" x 5/8"	1	15111600000073	
38MGRQ36D--3	3/8" x 1/2"	2	15500307000001	*
	1/2" x 3/8"	2	15111600000083	
	1/4" x 3/8"	2	15111600000081	
	1/2" x 5/8"	3	15111600000073	
38MGRQ48E--3	1/2" x 3/8"	2	15111600000083	
	1/4" x 3/8"	2	15111600000081	
	1/2" x 5/8"	2	15111600000073	
	3/8" x 1/2"	3	15500307000001	*

Each 3/8" x 1/2" adapter (p/n: 15500307000001) requires a washer that does not ship with the adapter if ordered through RCD. The washer part number is 1500405000008.

Performance SERIES

Carrier Performance Series MGR Series Multi-Split Heat Pumps with Inverter Technology

Indoor Units	Type	BTU	Line Set Sizes	Controller	Indoor Unit Product Image
40MAQB09B--3	High Wall	9K	1/4" X 3/8"	Wireless Remote Included	
40MAQB12B--3		12K	1/4" X 1/2"		
40MAQB18B--3		18K	1/4" X 1/2"		
40MAQB24B--3		24K	3/8" X 5/8"		
40MHHQ09---3	High Wall	9K	1/4" X 3/8"	Wireless Remote Included	
40MHHQ12---3		12K	1/4" X 1/2"		
40MHHQ18---3		18K	1/4" X 1/2"		
40MHHQ24---3		24K	3/8" X 5/8"		
40MBQB09D--3	Ceiling Concealed Ducted	9K	1/4" X 3/8"	Wired Wall Mount and Wireless Remote Controller Included	40MBQB*D
40MBQB12D--3		12K	1/4" X 1/2"		
40MBQB18D--3		18K	1/4" X 1/2"		
40MBDQ18---3		18K	1/4" X 1/2"		40MBD
40MBQB24D--3		24K	3/8" X 5/8"		
40MBDQ24---3		24K	3/8" X 5/8"		
40MBQB09C--3	Ceiling Cassette	9K	1/4" X 3/8"	Wireless Remote Included	
40MBCQ09---3		9K	1/4" X 3/8"		
40MBQB12C--3		12K	1/4" X 1/2"		
40MBCQ12---3		12K	1/4" X 1/2"		
40MBQB18C--3		18K	1/4" X 1/2"		
40MBCQ18---3		18K	1/4" X 1/2"		
40MBQB01C---	Req'd Cassette Grille - Fits 9K, 12K & 18K				
40MBQB09F--3	Floor Console	9K	1/4" X 3/8"	Wireless Remote Included	
40MBFQ09---3		9K	1/4" X 3/8"		
40MBQB12F--3		12K	1/4" X 1/2"		
40MBFQ12---3		12K	1/4" X 1/2"		

Outdoor Voltage is 208-230/1/60. Indoor units are powered from outdoor unit.

MGR PERFORMANCE SERIES MULTI-ZONE H/P SYSTEMS

MULTI ZONE INVERTER HP	18K BTU	24K BTU	30K BTU	36K BTU	48K BTU
*All Connected IDU's Non-Ducted	38MGRQ18B--3	38MGRQ24C--3	38MGRQ30D--3	38MGRQ36D--3	38MGRQ48E--3
MIN 2, MAX NUMBER OF ZONES	2	3	4	4	5
COOLING RATED CAPACITY (Btuh)*	18,000	24,000	30,000	36,000	48,000
COOLING CAP. RANGE MIN-MAX (Btuh)*	5,810 - 21,940	7,880 - 33,510	8,090 - 41,470	8,560 - 45,020	8,560 - 53,160
RATED HEATING CAPACITY @ 47°F*	19,000	23,000	28,000	36,000	48,000
HEATING CAP. RANGE MIN-MAX*	5,760 - 24,480	6,010 - 36,180	6,350 - 41,950	7,210 - 50,350	7,210 - 55,820
RATED HEATING CAPACITY @ 5°F*	13,900	23,000	28,000	36,000	36,000
MAX HEATING CAPACITY @ -13°F*	6,540	17,590	20,650	27,690	28,050
MAX HEATING CAPACITY @ -22°F*	5,520	13,850	16,700	23,030	23,330
HTG % CAPACITY @ 5°F / -13°F / -22°F*	73% / 34% / 29%	100% / 77% / 60%	100% / 74% / 60%	100% / 77% / 64%	75% / 58% / 49%
SEER / EER / HSPF (all IDU's non-ducted)	22.5 / 12.5 / 10.3	23.0 / 12.5 / 9.8	23.8 / 12.5 / 10.0	21.5 / 13.5 / 10.5	22.4 / 12.5 / 10.2
SEER / EER / HSPF (mixed ducted & non)	20.45 / 12.15 / 9.9	21.0 / 12.5 / 9.3	21.65 / 12.0 / 9.5	19.25 / 12.15 / 9.9	20.0 / 11.3 / 10.2
SEER / EER / HSPF (all IDU's ducted)	18.4 / 11.8 / 9.4	19.0 / 12.5 / 8.8	19.5 / 11.5 / 9.0	17.0 / 10.8 / 9.2	17.6 / 10.1 / 10.1
Outdoor Ambient Operating Range	(Min / Max DB) Cooling Mode: -13°F (-25°C) / 122°F (50°C) Heating Mode: -22°F (-30°C) / 86°F (30°C)				
MCA / MOPA	18A / 25A	25A / 35A	30A / 45A	35A / 50A	35A / 50A
Max Total Line Set Piping	131ft	197ft	263ft	328ft	328ft
Max Line Set Length To Any Single IDU	82ft	98ft	115ft	115ft	115ft
Min Line Set Length To Any Single IDU	10ft	10ft	10ft	10ft	10ft
Max Elevation (FCU TO FCU)	32ft	32ft	32ft	32ft	32ft
Max Elevation (FCU OVER/UNDER ODU)	49ft	49ft	49ft	65ft	65ft
Refrigerant Charge Data: Pre-charged XX ft; add XX ozs/ft	49ft / 0.16oz per ft	74ft / 0.16oz per ft	98ft / 0.16oz per ft	123ft / 0.16oz per ft	123ft / 0.16oz per ft
R410a Pre-Charged Amount	4.41lbs	6.17lbs	6.61lbs	10.13lbs	10.13lbs
Liquid Line Connections	1/4" (2)	1/4" (3)	1/4" (4)	1/4" (4)	1/4" (5)
Vapor Line Connections	3/8" (2)	3/8" (3)	3/8" (3); 1/2" (1)	3/8" (3); 1/2" (1)	3/8" (3); 1/2" (2)
Max Connected BTU's	**133% or 24K BTU's**	**133% or 36K BTU's**	**160% or 48K BTU's**	**175% or 63K BTU's**	**131% or 63K BTU's**
INDOOR UNIT BTU SIZES	**9K BTU**	**12K BTU**	**18K BTU**	**24K BTU**	
Square Footage Capacity*	300*	400*	540*	720*	
INDOOR UNIT TYPES	**INDOOR UNIT MODEL NUMBERS**				
HIGH WALL	40MAQB09B--3	40MAQB12B--3	40MAQB18B--3	40MAQB24B--3	
CEILING CONCEALED DUCTED	40MBQB09D--3	40MBQB12D--3	40MBQB18D--3	40MBQB24D--3	
CEILING CASSETTE	40MBQB09C--3	40MBQB12C--3	40MBQB18C--3	N/A	
CASSETTE GRILLE (REQ'D)	40MBQB01C---	40MBQB01C---	40MBQB01C---	N/A	
FLOOR CONSOLE	40MBQB09F--3	40MBQB12F--3	N/A	N/A	
Liquid / Vapor	1/4" / 3/8"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	

An air filter track and air filters were added to the 40MB*D Ducted indoor units starting with the serial number 1528V00001 (Year 2015 Week 28)

Condensate drain line connections on all sizes of Ceiling Concealed Ducted & Ceiling Cassette are 25mm or 0.98" inside diameter (1 1/4" OD).

Based on 30 BTU's per square foot. Not indicitive of all jobs/projects. Properly size using Manual J calculations.

MGR SERIES MULTI-ZONE HEAT PUMP (18K - 48K BTU; 2 - 5 Zones)				
Outdoor Unit Model	**2 - Zone**	**3 - Zone**	**4 - Zone**	**5 - Zone**
38MGRQ18B--3	9+9			
	9+12			
	12+12			
38MGRQ24C--3	9+9	9+9+9		
	9+12	9+9+12		
	9+18	9+9+18		
	12+12	9+12+12		
	12+18	12+12+12		
	18+18			
38MGRQ30D--3	9+9	9+9+9	9+9+9+9	
	9+12	9+9+12	9+9+9+12	
	9+18	9+9+18	9+9+9+18	
	9+24	9+12+12	9+9+12+12	
	12+12	9+12+18	9+9+12+18	
	12+18	9+18+18	9+12+12+12	
	12+24	12+12+12	12+12+12+12	
	18+18	12+12+18		
		12+18+18		
		12+12+24		
38MGRQ36D--3	9+18	9+9+9	9+9+9+9	
	9+24	9+9+12	9+9+9+12	
	12+12	9+9+18	9+9+9+18	
	12+18	9+9+24	9+9+9+24	
	12+24	9+12+12	9+9+12+12	
	18+18	9+12+18	9+9+12+18	
	18+24	9+12+24	9+9+12+24	
	24+24	9+18+18	9+9+18+18	
		9+18+24	9+9+18+24	
		9+24+24	9+12+12+12	
		12+12+12	9+12+12+18	
		12+12+18	9+12+12+24	
		12+12+24	9+12+18+18	
		12+18+18	9+18+18+18	
		12+18+24	12+12+12+12	
		12+24+24	12+12+12+18	
		18+18+18	12+12+12+24	
		18+18+24	12+12+18+18	
38MGRQ48E--3	9+18	9+9+9	9+9+9+9	9+9+9+9+9
	9+24	9+9+12	9+9+9+12	9+9+9+9+12
	12+12	9+9+18	9+9+9+18	9+9+9+9+18
	12+18	9+9+24	9+9+9+24	9+9+9+9+24
	12+24	9+12+12	9+9+12+12	9+9+9+12+12
	18+18	9+12+18	9+9+12+18	9+9+9+12+18
	18+24	9+12+24	9+9+12+24	9+9+9+18+18
	24+24	9+18+18	9+9+18+18	9+9+12+12+12
		9+18+24	9+9+18+24	9+9+12+12+18
		9+24+24	9+12+12+12	9+12+12+12+12
		12+12+12	9+12+12+18	9+12+12+12+18
		12+12+18	9+12+12+24	12+12+12+12+12
		12+12+24	9+12+18+18	
		12+18+18	9+18+18+18	
		12+18+24	12+12+12+12	
		12+24+24	12+12+12+18	
		18+18+18	12+12+12+24	
		18+18+24	12+12+18+18	

MGR SERIES MULTI-ZONE HEAT PUMP (18K - 30K BTU; 2 - 4 Zones)

Size		Cooling Capacity (Btu/h) @ 95° (DB)					Heating Capacity (Btu/h) @ 47° (DB)				
18K		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
9+9	2-Zone	9,000	9,000				9,500	9,500			
9+12		8,500	10,500				9,000	11,000			
12+12		9,500	9,500				10,000	10,000			
24K		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
9+9	2-Zone	9,500	9,500				10,000	10,000			
9+12		9,500	12,000				10,000	13,000			
9+18		8,400	16,600				9,000	18,000			
12+12		12,000	12,000				13,000	13,000			
12+18		10,000	15,000				11,200	16,800			
18+18		14,000	14,000				15,000	15,000			
9+9+9	3-Zone	9,000	9,000	9,000			9,500	9,500	9,500		
9+9+12		8,667	8,667	11,667			9,500	9,500	12,000		
9+9+18		8,333	8,333	13,333			9,000	9,000	14,000		
9+12+12		8,500	10,000	10,000			8,500	11,000	11,000		
12+12+12		9,667	9,667	9,667			10,667	10,667	10,667		
30K		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
9+9	2-Zone	10,000	10,000				10,500	10,500			
9+12		9,500	12,000				10,000	13,000			
9+18		9,500	17,500				10,000	18,000			
9+24		9,000	24,000				10,000	25,000			
12+12		12,000	12,000				13,000	13,000			
12+18		12,000	18,000				13,000	18,000			
12+24		11,000	23,000				12,000	24,000			
18+18		16,500	16,500				17,000	17,000			
9+9+9	3-Zone	9,333	9,333	9,333			9,667	9,667	9,667		
9+9+12		9,000	9,000	12,000			9,500	9,500	12,500		
9+9+18		8,000	8,000	16,000			8,500	8,500	17,000		
9+9+24											
9+12+12		8,500	11,500	11,500			9,000	12,000	12,000		
9+12+18		8,000	11,000	15,000			8,500	11,500	16,000		
9+18+18		8,000	14,000	14,000			8,500	14,500	14,500		
12+12+12		11,333	11,333	11,333			12,000	12,000	12,000		
12+12+18		11,000	11,000	14,000			12,000	12,000	15,000		
12+18+18		9,333	13,333	13,333			10,000	14,500	14,500		
12+12+24		8,000	8,000	20,000			9,000	9,000	21,000		
9+9+9+9	4-Zone	9,000	9,000	9,000	9,000		9,500	9,500	9,500	9,500	
9+9+9+12		8,500	8,500	8,500	11,500		9,000	9,000	9,000	12,000	
9+9+9+18		8,000	8,000	8,000	14,000		8,500	8,500	8,500	14,000	
9+9+12+12		8,000	8,000	10,500	10,500		8,500	8,500	11,000	11,000	
9+9+12+18		7,500	7,500	9,000	14,000		8,000	8,000	9,500	14,500	
9+12+12+12		7,000	10,000	10,000	10,000		8,000	10,500	10,500	10,500	
12+12+12+12		9,500	9,500	9,500	9,500		10,000	10,000	10,000	10,000	

MGR SERIES MULTI-ZONE HEAT PUMP (36K BTU; 2 - 4 Zones)

Size		Cooling Capacity (Btu/h) @ 95° (DB)					Heating Capacity (Btu/h) @ 47° (DB)				
36K		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
9+18	2-Zone	9,500	18,000				10,000	18,000			
9+24		9,500	24,000				10,000	25,000			
12+12		12,500	12,500				13,000	13,000			
12+18		12,000	18,000				13,000	19,000			
12+24		12,000	24,000				10,000	25,000			
18+18		18,500	18,500				19,000	19,000			
18+24		17,500	22,500				18,000	23,000			
24+24		21,000	21,000				22,000	22,000			
9+9+9	3-Zone	9,500	9,500	9,500			11,000	11,000	11,000		
9+9+12		9,500	9,500	12,000			10,000	10,000	13,000		
9+9+18		9,500	9,500	18,000			10,000	10,000	19,000		
9+9+24		9,000	9,000	22,500			9,500	9,500	23,500		
9+12+12		9,500	12,500	12,500			10,000	10,000	13,000		
9+12+18		9,000	12,000	18,000			9,500	9,500	19,000		
9+12+24		9,000	12,000	21,500			9,500	12,500	22,000		
9+18+18		9,000	18,000	18,000			9,500	18,500	18,500		
9+18+24		8,500	15,500	21,000			9,000	16,000	21,500		
9+24+24		8,000	20,000	20,000			8,500	21,000	21,000		
12+12+12		12,000	12,000	12,000			13,000	13,000	13,000		
12+12+18		12,000	12,000	17,000			12,500	12,500	18,000		
12+12+24		11,000	11,000	22,000			11,500	11,500	23,000		
12+18+18		11,000	16,500	16,500			11,500	17,000	17,000		
12+18+24		10,500	15,500	21,500			11,000	16,000	22,000		
12+24+24		10,000	20,000	20,000			11,000	20,500	20,500		
18+18+18		16,000	16,000	16,000			16,500	16,500	16,500		
18+18+24		15,000	15,000	20,000			15,500	15,500	21,000		
9+9+9+9	4-Zone	9,250	9,250	9,250	9,250		9,500	9,500	9,500	9,500	
9+9+9+12		9,000	9,000	9,000	12,000		9,500	9,500	9,500	12,500	
9+9+9+18		9,000	9,000	9,000	17,000		9,500	9,500	9,500	17,500	
9+9+9+24		8,500	8,500	8,500	20,500		9,000	9,000	9,000	21,000	
9+9+12+12		9,000	9,000	12,000	12,000		9,500	9,500	13,000	13,000	
9+9+12+18		9,000	9,000	11,000	17,000		9,500	9,500	11,500	17,500	
9+9+12+24		8,500	8,500	10,500	20,500		9,000	9,000	11,100	21,000	
9+9+18+18		8,500	8,500	15,500	15,500		9,000	9,000	16,000	16,000	
9+9+18+24		8,000	8,000	14,500	20,000		8,500	8,500	15,000	20,000	
9+12+12+12		9,000	12,000	12,000	12,000		9,500	12,500	12,500	12,500	
9+12+12+18		9,000	11,000	11,000	16,000		9,500	11,500	11,500	16,500	
9+12+12+24		8,500	10,000	10,000	20,000		9,000	10,500	10,500	20,500	
9+12+18+18		8,500	10,000	15,000	15,000		9,000	10,500	15,500	15,500	
9+18+18+18		8,000	14,000	14,000	14,000		8,500	14,500	14,500	14,500	
12+12+12+12		12,000	12,000	12,000	12,000		12,500	12,500	12,500	12,500	
12+12+12+18		11,000	11,000	11,000	16,000		11,500	11,500	11,500	16,500	
12+12+12+24		10,000	10,000	10,000	20,000		10,500	10,500	10,500	20,500	
12+12+18+18		10,000	10,000	15,000	15,000		10,500	10,500	15,500	15,500	

MGR SERIES MULTI-ZONE HEAT PUMP (48K BTU; 2 - 5 Zones)

Size		Cooling Capacity (Btu/h) @ 95° (DB)					Heating Capacity (Btu/h) @ 47° (DB)				
48K		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
9+18	2-Zone	9,500	18,000				10,000	18,000			
9+24		9,500	24,000				10,000	25,000			
12+12		12,500	12,500				13,000	13,000			
12+18		12,000	18,000				13,000	19,000			
12+24		12,000	24,000				10,000	25,000			
18+18		18,500	18,500				19,000	19,000			
18+24		17,500	22,500				18,000	23,000			
24+24		21,000	21,000				22,000	22,000			
9+9+9	3-Zone	9,500	9,500	9,500			11,000	11,000	11,000		
9+9+12		9,500	9,500	12,000			10,000	10,000	13,000		
9+9+18		9,500	9,500	18,000			10,000	10,000	19,000		
9+9+24		9,000	9,000	22,500			9,500	9,500	23,500		
9+12+12		9,500	12,500	12,500			10,000	10,000	13,000		
9+12+18		9,000	12,000	18,000			9,500	9,500	19,000		
9+12+24		9,000	12,000	21,500			9,500	12,500	22,000		
9+18+18		9,000	18,000	18,000			9,500	18,500	18,500		
9+18+24		8,500	15,500	21,000			9,000	16,000	21,500		
9+24+24		8,000	20,000	20,000			8,500	21,000	21,000		
12+12+12		12,000	12,000	12,000			13,000	13,000	13,000		
12+12+18		12,000	12,000	17,000			12,500	12,500	18,000		
12+12+24		11,000	11,000	22,000			11,500	11,500	23,000		
12+18+18		11,000	16,500	16,500			11,500	17,000	17,000		
12+18+24		10,500	15,500	21,500			11,000	16,000	22,000		
12+24+24		10,000	20,000	20,000			11,000	20,500	20,500		
18+18+18		16,000	16,000	16,000			16,500	16,500	16,500		
18+18+24		15,000	15,000	20,000			15,500	15,500	21,000		
9+9+9+9	4-Zone	9,250	9,250	9,250	9,250		9,500	9,500	9,500	9,500	
9+9+9+12		9,000	9,000	9,000	12,000		9,500	9,500	9,500	12,500	
9+9+9+18		9,000	9,000	9,000	17,000		9,500	9,500	9,500	17,500	
9+9+9+24		8,500	8,500	8,500	20,500		9,000	9,000	9,000	21,000	
9+9+12+12		9,000	9,000	12,000	12,000		9,500	9,500	13,000	13,000	
9+9+12+18		9,000	9,000	11,000	17,000		9,500	9,500	11,500	17,500	
9+9+12+24		8,500	8,500	10,500	20,500		9,000	9,000	11,100	21,000	
9+9+18+18		8,500	8,500	15,500	15,500		9,000	9,000	16,000	16,000	
9+9+18+24		8,000	8,000	14,500	20,000		8,500	8,500	15,000	20,000	
9+12+12+12		9,000	12,000	12,000	12,000		9,500	12,500	12,500	12,500	
9+12+12+18		9,000	11,000	11,000	16,000		9,500	11,500	11,500	16,500	
9+12+12+24		8,500	10,000	10,000	20,000		9,000	10,500	10,500	20,500	
9+12+18+18		8,500	10,000	15,000	15,000		9,000	10,500	15,500	15,500	
9+18+18+18		8,000	14,000	14,000	14,000		8,500	14,500	14,500	14,500	
12+12+12+12		12,000	12,000	12,000	12,000		12,500	12,500	12,500	12,500	
12+12+12+18		11,000	11,000	11,000	16,000		11,500	11,500	11,500	16,500	
12+12+12+24		10,000	10,000	10,000	20,000		10,500	10,500	10,500	20,500	
12+12+18+18		10,000	10,000	15,000	15,000		10,500	10,500	15,500	15,500	
9+9+9+9+9	5-Zone	9,000	9,000	9,000	9,000	9,000	9,500	9,500	9,500	9,500	9,500
9+9+9+9+12		9,000	9,000	9,000	9,000	12,000	9,500	9,500	9,500	9,500	13,000
9+9+9+9+18		8,500	8,500	8,500	8,500	16,000	9,000	9,000	9,000	9,000	16,500
9+9+9+9+24		7,750	7,750	7,750	7,750	19,500	8,000	8,000	8,000	8,000	20,000
9+9+9+12+12		9,000	9,000	9,000	11,500	11,500	9,500	9,500	9,500	12,000	12,000
9+9+9+12+18		8,000	8,000	8,000	11,000	16,000	8,500	8,500	8,500	11,500	16,500
9+9+9+18+18		8,000	8,000	8,000	11,000	16,000	8,500	8,500	8,500	16,500	16,500
9+9+12+12+12		8,500	8,500	11,000	11,000	11,000	9,000	9,000	12,000	12,000	12,000
9+9+12+12+18		8,500	8,500	10,000	10,000	15,000	8,500	8,500	10,500	10,500	15,500
9+12+12+12+12		8,000	11,000	11,000	11,000	11,000	8,500	11,500	11,500	11,500	11,500
9+12+12+12+18		7,500	10,000	10,000	10,000	14,500	8,000	10,500	10,500	10,500	15,000
12+12+12+12+12		10,500	10,500	10,500	10,500	10,500	11,000	11,000	11,000	11,000	11,000

GJ INFINITY SERIES MULTI-ZONE OUTDOOR UNITS

MULTI ZONE INVERTER HP	18K BTU	24K BTU	30K BTU	36K BTU
OUTDOOR M/N:	**38GJQC18---3**	**38GJQD24---3**	**38GJQF30---3**	**38GJQG36---3**
RATED COOLING CAPACITY (Btuh)	18,000	26,000	29,000	34,000
COOLING RANGE CAPACITY (Btuh)	7,000 - 21,000	7,500 - 33,000	8,189 - 33,348	8,800 - 35,800
RATED HEATING CAPACITY (Btuh)	19,000	29,000	31,595	42,514
HEATING RANGE CAPACITY (Btuh)	8,500 - 22,600	7,500 - 35,000	8,189 - 32,414	8,871 - 44,356
MIN 2, MAX NUMBER OF ZONES	2	3	4	5
SEER / EER / HSPF (all IDU's non-ducted)	22.0 / 10.9 / 9.0	20.5 / 9.5 / 10.2	21.0 / 12.0 / 10.2	21.0 / 12.1 / 10.2
SEER / EER / HSPF (mixed ducted & non)	18.0 / 10.2 / 9.0	17.25 / 9.5 / 9.6	17.75 / 10.55 / 10.0	17.9 / 11.125 / 9.9
SEER / EER / HSPF (all IDU's ducted)	14.0 / 9.5 / 9.0	14.0 / 8.0 / 9.0	14.5 / 9.1 / 9.8	14.8 / 10.1 / 9.6
Outdoor Ambient Operating Range	(Min / Max DB) Cooling Mode: 0°F / 119°F Heating Mode: -4°F / 75°F			
MCA / MOCP	15A / 25A	21A / 35A	19A / 30A	21A / 35A
Max Total Line Set Piping	65ft	196ft	230ft	246ft
Max Line Set Length To Any Single IDU	33ft	65ft	82ft	82ft
Min Line Set Length To Any Single IDU	10ft	10ft	10ft	10ft
Max Elevation (FCU TO FCU)	33ft	33ft	24.6ft	24.6ft
Max Elevation (FCU OVER ODU)	32ft	32ft	49ft	49ft
Max Elevation (ODU OVER FCU)	33ft	33ft	49ft	49ft
R410a Pre-Charged lbs; Accommodates up to XX ft	3.53lbs / 32ft	4.85lbs / 98ft	6.17lbs / 131ft	8.05lbs / 131ft
Additional charge, 1/4" LL / 3/8" LL; add XX ozs/ft	0.20 / Not Applicable	0.20 / Not Applicable	0.24 / 0.58	0.24 / 0.58
Liquid Line Connections	1/4"	1/4"	1/4"	1/4"
Vapor Line Connections	3/8"	3/8"	3/8"	3/8"
Max Connected BTU's	**116% or 21K BTU's**	**150% or 36K BTU's**	**140% or 42K BTU's**	**133% or 48K BTU's**

MULTI ZONE INVERTER HP	42K BTU	48K BTU	56K BTU
OUTDOOR M/N:	**38GJQG42---3**	**38GJQK48---3***	**38GJQL56---3***
RATED COOLING CAPACITY (Btuh)	39,000	47,800	52,900
COOLING RANGE CAPACITY (Btuh)	8,871 - 40,944	3,412 - 54,592	3,412 - 61,416
RATED HEATING CAPACITY (Btuh)	45,000	54,600	61,400
HEATING RANGE CAPACITY (Btuh)	8,871 - 46,062	4,095 - 59,369	4,095 - 63,122
MIN 2, MAX NUMBER OF ZONES	5	8	9
SEER / EER / HSPF (all IDU's non-ducted)	21.0 / 10.4 / 10.2	16.0 / 9.5 / 8.2	16.0 / 9.4 / 8.2
SEER / EER / HSPF (mixed ducted & non)	17.85 / 10.1 / 9.9	15.75 / 9.2 / 8.2	15.75 / 9.1 / 8.2
SEER / EER / HSPF (all IDU's ducted)	14.7 / 9.8 / 9.6	15.5 / 8.8 / 8.2	15.5 / 8.7 / 8.2
Outdoor Ambient Operating Range	(Min / Max DB) Cooling Mode: 0°F / 119°F Heating Mode: -4°F / 75°F		
MCA / MOCP	24A / 40A	30A / 50A	30A / 50A
Max Total Line Set Piping	246ft	443ft	476ft
Max Line Set Length To Any Single IDU	82ft	229ft	229ft
Max Line Set Length From Branch Box To A Single IDU	N/A	49ft	49ft
Min Line Set Length To Any Single IDU	10ft	10ft	10ft
Max Elevation (FCU TO FCU)	24.6ft	49ft	49ft
Max Elevation (FCU OVER ODU)	49ft	98ft	98ft
Max Elevation (ODU OVER FCU)	49ft	98ft	98ft
R410a Pre-Charged lbs; Accommodates up to XX ft	8.05lbs / 131ft	10.91lbs / 98ft	10.91lbs / 98ft
Additional charge, 1/4" LL / 3/8" LL; add XX ozs/ft	0.24 / 0.58	0.24 / 0.58	0.24 / 0.58
Liquid Line Connections	1/4"	3/8"	3/8"
Vapor Line Connections	3/8"	5/8"	5/8"
Max Connected BTU's	**121% or 51K BTU's**	**150% or 72K BTU's**	**145% or 81K BTU's**

**Must use Branch Box(s) on 48K & 56K BTU GJQ Series Multi-Zone outdoor units regardless of the quantity of indoor unit zones.*

*Also, if using either of these ODU's to achieve long line set length needs, a minimum of 1 Branch Box & a minimum of 2 IDU's is required.

*Branch boxes require their own dedicated 230V circuit of either 10A for a single branch box or 15A for 2 to 3 branch boxes wired in sequence.

GJ INFINITY SERIES MULTI-ZONE INDOOR UNITS

BTU SIZES	9K BTU	12K BTU	18K		
INDOOR HIGH WALL GR WHITE	**40GRQB09H--3**	**40GRQB12H--3**	**40GRQB18H--3**	*40GRQB indoor units are **not** **compatible** with any Wired Wall-Mount Controllers.*	
INDOOR HIGH WALL GR GRAY	**40GRQB09B--3**	**40GRQB12B--3**	**40GRQB18B--3**		
Liquid / Vapor	1/4" X 1/2"	1/4" X 1/2"	1/4" X 5/8"		
Controls	Wireless Remote Control Included Standard.				

BTU SIZES	9K BTU	12K BTU	18K		24K
INDOOR HIGH WALL GJ*B WHITE	**40GJQB09B--3**	**40GJQB12B--3**	**40GJQB18B--3**		**40GJQB24B--3**
Liquid / Vapor	1/4" X 1/2"	1/4" X 1/2"	1/4" X 5/8"		1/4" X 5/8"
Controls	IDU ships with wireless remote and non-programmable wired wall mount control KSACN0201AAA standard. Optional cable extension, if needed, available from RCD P/N: 40038001001.				

BTU SIZES	9K BTU	12K BTU	18K	21K	24K
CEILING CONCEALED DUCTED	**40GJQB09D--3**	**40GJQB12D--3**	**40GJQB18D--3**	**40GJQB21D--3**	**40GJQB24D--3**
Liquid / Vapor	1/4" X 3/8"	1/4" X 3/8"	1/4" X 1/2"	3/8" X 5/8"	3/8" X 5/8"
Controls	IDU ships with wireless remote and non-programmable wired wall mount control KSACN0301AAA standard. Optional cable extension, if needed, available from RCD P/N: 40038001001.				
Maximum Static Pressure In. WG.	0.04	0.04	0.04	0.06	0.06

BTU SIZES	9K BTU	12K BTU	18K		
LOW WALL FLOOR CONSOLE	**40GJQB09F--3**	**40GJQB12F--3**	**40GJQB18F--3**	*40GJQ*F indoor units are **not** **compatible** with any Wired Wall-Mount Controllers.*	
Liquid / Vapor	1/4" X 3/8"	1/4" X 3/8"	1/4" X 1/2"		
Controls	Wireless Remote Control Included Standard.				

BTU SIZES		12K BTU	18K		24K
CEILING CASSETTE		**40GJQB12C--3**	**40GJQB18C--3**		**40GJQB24C--3**
CASSETTE GRILLE (REQ'D)		**40GJQB01C---**	**40GJQB01C---**		**40GJQB02C---**
Liquid / Vapor		1/4" X 3/8"	1/4" X 1/2"		3/8" X 5/8"
Controls	IDU ships with wireless remote and non-programmable wired wall mount control KSACN0301AAA standard. Optional cable extension, if needed, available from RCD P/N: 40038001001.				

Additional Refrigerant Calculation Sizes 30K, 36K and 42K:

Sum Total Liquid Pipe 1/4" (ft) x 0.24 + Sum Total Pipe 3/8" (ft) x 0.58 – 31 oz

Additional Refrigerant Calculation Sizes 48K and 56K:

Sum Total Liquid Pipe 1/4" (ft) x 0.24 + Sum Total Pipe 3/8" (ft) x 0.58 – 51.7 oz

NOTE: If the calculation results in a negative number no additional refrigerant is required.

Condensate drain line connections on all sizes of GJ Series ceiling concealed ducted, floor console, & ceiling cassettes are 25mm or 0.98" outside diameter. GJ Series ceiling concealed ducted do not come with return air rack or filter and must be field supplied by installing contractor.

Outdoor Unit Model		Cooling Capacity (Btu/h) @ 95°F (DB)				Heating Capacity (Btu/h) @ 47°F (DB)			
38GJQC18---3	**Type**	**Zone 1**	**Zone 2**	**Zone 3**	**Zone 4**	**Zone 1**	**Zone 2**	**Zone 3**	**Zone 4**
9K + 9K	Dual	9,000	9,000			9,500	9,500		
9K + 12K	Zone	9,000	12,000			9,500	13,000		
38GJQD24---3	**Type**	**Zone 1**	**Zone 2**	**Zone 3**	**Zone 4**	**Zone 1**	**Zone 2**	**Zone 3**	**Zone 4**
9K + 9K	DUAL ZONE	9,000	9,000			9,500	9,500		
9K + 12K		9,000	12,000			9,500	13,000		
9K + 18K		8,400	16,600			9,000	18,000		
12K + 12K		12,000	12,000			13,000	13,000		
12K + 18K		10,000	15,000			11,200	16,800		
18K + 18K		12,750	12,750			14,250	14,250		
9K + 9K + 9K	TRI ZONE	8,667	8,667	8,667		9,667	9,667	9,667	
9K + 9K + 12K		8,000	8,000	10,000		9,000	9,000	11,000	
9K + 9K + 18K		7,000	7,000	12,000		6,000	6,000	17,000	
9K + 12K + 12K		6,000	10,000	10,000		6,000	11,500	11,500	
12K + 12K + 12K		8,667	8,667	8,667		9,667	9,667	9,667	
38GJQF30---3	**Type**	**Zone 1**	**Zone 2**	**Zone 3**	**Zone 4**	**Zone 1**	**Zone 2**	**Zone 3**	**Zone 4**
9+9	DUAL ZONE	9,000	9,000			9,500	9,500		
9+12		9,000	12,000			9,500	13,000		
9+18		7,650	15,300			8,460	16,920		
9+21		7,560	18,060			8,370	19,950		
9+24		7,380	20,400			8,280	22,560		
12+12		12,000	12,000			13,000	13,000		
12+18		10,200	15,300			11,280	16,920		
12+21		9,960	17,220			10,800	18,900		
12+24		9,420	19,440			9,900	20,000		
18+18		14,180	14,180			15,100	15,100		
18+21		13,200	15,700			14,580	17,000		
18+24		12,000	17,100			13,300	18,500		
21+21		14,450	14,450			15,800	15,800		
9+9+9	TRI ZONE	8,500	8,500	8,500		9,500	9,500	9,500	
9+9+12		8,000	8,000	10,200		8,800	8,800	11,200	
9+9+18		7,650	7,650	14,500		7,900	7,900	15,300	
9+9+21		7,000	7,000	16,000		7,200	7,200	16,800	
9+9+24		6,300	6,300	17,200		6,750	6,750	18,000	
9+12+12		8,200	10,000	10,000		8,500	10,200	10,200	
9+12+18		7,000	8,600	14,000		7,200	9,000	14,500	
9+12+21		6,000	7,500	15,200		6,400	8,500	15,750	
12+12+12		9,500	9,500	9,500		9,900	9,900	9,900	
12+12+18		8,600	8,600	13,000		9,000	9,000	13,500	
9K + 9K + 9K + 9K	QUAD	7,400	7,400	7,400	7,400	7,700	7,700	7,700	7,700
9K + 9K + 9K + 12K		7,100	7,100	7,100	8,400	7,300	7,300	7,300	9,400
9K + 9K + 12K + 12K		6,800	6,800	8,000	8,000	6,800	6,800	9,000	9,000

Outdoor Unit Model		Cooling Capacity (Btu/h) @ 95°F (DB)					Heating Capacity (Btu/h) @ 47°F (DB)				
38GJQG36---3	Type	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
9+9	DUAL ZONE	9,000	9,000				9,500	9,500			
9+12		9,000	12,000				9,500	13,000			
9+18		8,000	17,500				9,300	18,500			
9+21		7,700	18,300				8,400	19,500			
9+24		7,000	19,300				8,000	21,600			
12+12		12,000	12,000				13,000	13,000			
12+18		11,400	17,000				12,000	17,500			
12+21		10,500	18,500				11,500	19,700			
12+24		10,000	20,000				11,200	22,000			
18+18		15,300	15,300				17,500	17,500			
18+21		14,700	17,200				16,000	19,500			
18+24		14,200	18,900				15,000	21,000			
21+21		16,700	16,700				18,100	18,100			
21+24		15,500	17,700				17,750	19,000			
24+24		16,800	16,800				19,000	19,000			
9+9+9	TRI ZONE	8,200	8,200	8,200			9,000	9,000	9,000		
9+9+12		7,500	7,500	9,900			9,000	9,000	10,800		
9+9+18		7,200	7,200	15,300			8,800	8,800	17,400		
9+9+21		7,000	7,000	16,400			8,380	8,380	19,300		
9+9+24		6,600	6,600	17,700			7,800	7,800	21,000		
9+12+12		8,000	10,800	10,800			9,000	12,000	12,000		
9+12+18		7,400	9,800	14,700			8,650	11,200	15,300		
9+12+21		7,000	9,360	16,400			8,200	10,400	18,500		
9+12+24		6,800	9,100	18,200			7,900	9,240	20,500		
9+18+18		6,500	13,700	13,700			7,560	15,200	15,200		
9+18+21		6,390	12,780	14,900			7,200	14,500	16,800		
12+12+12		10,400	10,400	10,400			12,000	12,000	12,000		
12+12+18		9,360	9,360	14,000			10,600	10,600	16,000		
12+12+21		8,760	8,760	15,330			9,960	9,960	17,800		
12+12+24		8,300	8,300	16,300			9,500	9,500	19,000		
12+18+18		8,160	12,300	12,300			9,300	14,500	14,500		
9+9+9+9	QUAD ZONE	8,500	8,500	8,500	8,500		10,500	10,500	10,500	10,500	
9+9+9+12		7,830	7,830	7,830	10,800		9,600	9,600	9,600	13,200	
9+9+9+18		6,824	6,824	6,824	13,600		8,400	8,400	8,400	16,740	
9+9+9+21		6,450	6,450	6,450	14,900		7,920	7,920	7,920	18,480	
9+9+12+12		7,300	7,300	9,720	9,720		9,000	9,000	12,000	12,000	
9+9+12+18		6,500	6,500	8,640	12,960		8,000	8,000	10,680	16,000	
9+12+12+12		6,840	9,200	9,200	9,200		8,100	10,900	10,900	10,900	
12+12+12+12		8,760	8,760	8,760	8,760		10,680	10,680	10,680	10,680	
9+9+9+9+9	PENTA	6,900	6,900	6,900	6,900	6,900	8,550	8,550	8,550	8,550	8,550
9+9+9+9+12		6,500	6,500	6,500	6,500	6,640	7,920	7,920	7,920	7,920	10,560
38GJQG42---3	Type	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
9+12	DUAL ZONE	9,000	12,000				9,500	13,000			
9+18		8,000	17,500				9,300	18,500			
9+21		7,700	18,300				8,400	19,500			
9+24		7,000	19,300				8,000	21,600			
12+12		12,000	12,000				13,000	13,000			
12+18		11,400	17,000				12,000	17,500			
12+21		10,500	19,500				11,500	19,800			
12+24		10,000	22,700				11,200	23,600			
18+18		15,840	15,840				17,400	17,300			
18+21		14,900	17,200				16,560	19,270			
18+24		14,240	18,950				16,200	21,600			
21+21		16,900	16,900				18,920	18,920			
21+24		15,830	18,520				17,740	20,250			
24+24		17,560	17,560				19,200	19,200			
9+9+9	TRI ZONE	8,200	8,200	8,200			9,000	9,000	9,000		
9+9+12		7,500	7,500	9,900			9,000	9,000	10,800		
9+9+18		7,200	7,200	15,800			8,800	8,800	17,400		
9+9+21		7,000	7,000	18,400			8,380	8,380	19,500		
9+9+24		6,600	6,600	21,700			7,900	7,900	23,800		
9+12+12		8,000	10,800	10,800			9,000	12,000	12,000		
9+12+18		7,400	9,800	15,700			8,650	11,200	16,300		
9+12+21		7,100	9,460	18,400			8,550	10,900	20,500		
9+12+24		6,800	9,100	20,200			7,900	10,240	22,800		
9+18+18		6,500	14,800	14,800			7,560	16,730	16,730		
9+18+21		6,390	14,280	16,330			7,200	16,100	18,800		
9+21+21		6,120	15,940	15,940			6,900	18,300	18,300		
12+12+12		10,400	10,400	10,400			12,000	12,000	12,000		
12+12+18		9,960	9,960	15,180			11,400	11,400	17,300		
12+12+21		9,760	9,760	16,980			11,060	11,060	19,380		
12+12+24		9,300	9,300	18,900			10,620	10,620	21,260		
12+18+18		8,900	14,300	14,300			10,130	16,185	16,185		
12+18+21		8,460	13,500	16,540			9,530	15,300	19,000		
9+9+9+9	QUAD ZONE	8,870	8,870	8,870	8,870		11,000	11,000	11,000	11,000	
9+9+9+12		8,460	8,460	8,460	11,110		10,260	10,260	10,260	13,420	
9+9+9+18		7,650	7,650	7,650	15,400		8,920	8,920	8,920	18,200	
9+9+9+21		7,290	7,290	7,290	17,130		8,460	8,460	13,690	13,690	
9+9+12+12		8,300	8,300	11,200	11,200		9,630	9,630	12,870	12,870	
9+9+12+18		7,470	7,470	9,960	14,940		8,550	8,550	11,400	17,100	
9+12+12+12		7,000	10,760	10,760	10,760		8,120	12,390	12,390	12,390	
9+12+12+18		6,760	9,600	9,600	14,050		8,010	10,680	10,680	16,200	
12+12+12+12		9,950	9,950	9,950	9,950		11,470	11,470	11,470	11,470	
9+9+9+9+9	PENTA	7,920	7,920	7,920	7,920	7,920	9,100	9,100	9,100	9,100	9,100
9+9+9+9+12		7,430	7,430	7,430	7,430	9,980	8,540	8,540	8,540	8,540	11,480

Outdoor Unit Model	Multi	Cooling Capacity (Btu/h) @ 95°F (DB)				Heating Capacity (Btu/h) @ 47°F (DB)			
38GJQK48---3	Type	Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4
9+18	DUAL ZONE	8,506	16,719			9,103	18,452		
9+21		8,506	20,145			9,103	21,943		
9+24		8,506	23,086			9,103	24,620		
12+12		10,236	10,236			12,637	12,637		
12+18		10,236	16,207			12,637	18,452		
12+21		10,236	20,145			12,637	21,943		
12+24		10,236	23,086			12,637	24,620		
18+18		16,207	16,207			18,452	18,452		
18+21		16,207	20,145			18,452	21,943		
18+24		16,207	23,086			18,452	24,620		
21+21		20,145	20,145			21,943	21,943		
21+24		20,145	23,086			21,943	24,620		
24+24		23,086	23,086			24,620	24,620		
9+9+9	TRI ZONE	8,189	8,189	8,189		9,547	9,547	9,547	
9+9+12		8,189	8,189	11,771		9,547	9,547	12,637	
9+9+18		8,189	8,189	16,157		9,547	9,547	18,452	
9+9+21		8,189	8,189	16,463		9,547	9,547	21,943	
9+9+24		8,189	8,189	17,084		9,547	9,547	24,620	
9+12+12		8,189	11,771	11,771		9,547	12,637	12,637	
9+12+18		8,189	11,771	16,157		9,547	12,637	18,452	
9+12+21		8,189	11,771	16,463		9,547	12,637	21,943	
9+12+24		8,189	11,771	17,084		9,547	12,637	24,620	
9+18+18		8,189	16,157	16,157		9,547	18,452	18,452	
9+18+21		8,189	16,157	16,463		9,547	18,452	21,943	
9+18+24		8,189	16,157	17,084		9,547	18,452	24,620	
9+21+21		8,189	16,463	16,463		9,547	21,943	21,943	
9+21+24		8,189	16,463	16,463		9,547	21,943	24,620	
9+24+24		8,189	17,084	17,084		9,547	24,620	24,620	
12+12+12		11,771	11,771	11,771		12,637	12,637	12,637	
12+12+18		11,771	11,771	16,157		12,637	12,637	18,452	
12+12+21		11,771	11,771	16,463		12,637	12,637	21,943	
12+12+24		11,771	11,771	17,084		12,637	12,637	24,620	
12+18+18		11,771	16,157	16,157		12,637	18,452	18,452	
12+18+21		11,771	16,157	16,463		12,637	18,452	21,943	
12+18+24		11,771	16,157	17,084		12,637	18,452	24,620	
12+21+21		11,771	16,463	16,463		12,637	21,943	21,943	
12+21+24		11,771	16,463	17,084		12,637	21,943	24,620	
12+24+24		11,771	17,084	17,084		12,637	24,620	24,620	
18+18+18		16,157	16,157	16,157		17,139	17,139	17,139	
18+18+21		16,157	16,157	16,463		17,139	17,139	20,634	
18+18+24		16,157	16,157	17,084		17,139	17,139	23,351	
18+21+21		16,157	16,463	16,463		17,139	20,634	20,634	
18+21+24		16,157	16,463	17,084		17,139	20,634	23,351	
21+21+21		16,463	16,463	16,463		19,438	19,438	19,438	
21+21+24		16,463	16,463	17,084		19,438	19,438	21,370	
21+24+24		16,463	17,084	17,084		19,438	20,491	20,491	
24+24+24		17,084	17,084	17,084		20,491	20,491	20,491	
9+9+9+9	QUAD ZONE	8,674	8,674	8,674	8,674	9,547	9,547	9,547	9,547
9+9+9+12		8,674	8,674	8,674	11,974	9,547	9,547	9,547	12,162
9+9+9+18		8,674	8,674	8,674	17,974	9,547	9,547	9,547	17,623
9+9+9+21		8,674	8,674	8,674	19,631	9,547	9,547	9,547	20,763
9+9+9+24		8,674	8,674	8,674	22,495	9,547	9,547	9,547	23,174
9+9+12+12		8,135	8,135	11,874	11,874	9,547	9,547	12,162	12,162
9+9+12+18		8,135	8,135	11,674	17,549	9,547	9,547	12,162	17,623
9+9+12+21		8,135	8,135	11,674	17,549	9,547	9,547	12,162	20,763
9+9+12+24		8,135	8,135	11,674	20,530	9,547	9,547	12,162	23,174
9+9+18+18		8,135	8,135	17,374	17,374	9,547	9,547	17,623	17,623
9+9+18+21		8,135	8,135	17,374	17,549	9,547	9,547	17,623	20,763
9+9+18+24		8,135	8,135	17,374	20,530	9,547	9,547	17,623	23,174
9+9+21+21		8,135	8,135	20,530	20,530	9,547	9,547	20,763	20,763
9+9+21+24		8,135	8,135	20,530	22,530	9,547	9,547	20,763	21,532
9+12+12+12		8,135	9,836	9,836	9,836	9,067	12,896	12,896	12,896
9+12+12+18		8,135	9,836	9,836	14,263	9,067	12,896	12,896	17,623
9+12+12+21		8,135	9,836	9,836	17,834	9,067	12,896	12,896	21,532
9+12+12+24		8,135	9,836	9,836	19,769	9,067	12,896	12,896	23,174
9+12+18+18		8,135	9,836	14,263	14,263	9,067	12,896	17,623	17,623
9+12+18+21		8,135	9,836	14,263	17,334	9,067	12,896	17,623	20,591
9+12+18+24		8,135	9,836	13,963	19,469	9,067	12,428	17,123	21,856
9+12+21+21		8,135	9,836	17,134	17,134	8,867	12,028	19,591	19,591
9+12+21+24		8,135	9,836	17,134	19,469	8,867	12,028	19,591	21,856
9+12+24+24		8,135	9,836	19,469	19,469	8,867	11,096	21,413	21,413
9+18+18+18		8,135	13,963	13,963	13,963	8,583	16,223	16,223	16,223
9+18+18+21		8,135	13,963	13,963	17,134	8,583	16,223	16,223	20,591
9+18+18+24		8,135	13,963	13,963	19,469	8,583	16,223	16,223	21,413
9+18+21+21		8,135	13,963	17,134	17,134	8,583	16,223	18,223	18,223
9+18+21+24		8,135	13,963	17,134	19,469	8,106	15,892	17,952	20,432
12+12+12+12		11,674	11,674	11,674	11,474	12,028	12,028	12,028	12,028
12+12+12+18		10,824	10,824	10,824	13,963	12,028	12,028	12,028	18,223
12+12+12+21		9,762	9,762	9,762	17,134	12,028	12,028	12,028	20,374
12+12+12+24		9,162	9,162	9,162	19,469	11,783	11,783	11,783	21,413
12+12+18+18		8,836	8,836	14,463	14,463	11,783	11,783	17,496	17,496
12+12+18+21		8,836	8,836	14,463	15,134	11,783	11,783	17,496	20,374
12+12+18+24		8,836	8,836	13,463	16,469	11,783	11,783	17,496	21,413
12+12+21+21		8,836	8,836	15,134	15,134	11,358	11,358	19,664	19,664
12+12+24+24		8,836	8,836	16,469	16,469	10,726	10,726	20,374	20,374
12+18+18+18		8,836	13,463	14,463	14,463	10,726	17,183	17,183	17,183
12+18+18+21		8,836	13,463	13,863	15,734	10,619	16,583	16,583	18,664
12+18+18+24		8,836	13,463	13,463	16,469	10,350	16,183	16,183	19,753
12+18+21+21		8,836	13,463	15,134	15,134	10,350	16,034	18,291	18,291

Outdoor Unit Model	Multi	Cooling Capacity (Btu/h) @ 95°F (DB)								Heating Capacity (Btu/h) @ 47°F (DB)							
38GJQK48---3	Type	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
9+9+9+9+9	PENTA ZONE	8,615	8,615	8,615	8,615	8,615				9,482	9,482	9,482	9,482	9,482			
9+9+9+9+12		8,615	8,615	8,615	8,615	8,915				9,482	9,482	9,482	9,482	12,397			
9+9+9+9+18		8,615	8,615	8,615	8,615	14,417				9,482	9,482	9,482	9,482	18,172			
9+9+9+9+21		8,615	8,615	8,615	8,615	15,732				9,482	9,482	9,482	9,482	20,571			
9+9+9+9+24		8,615	8,615	8,615	8,615	16,718				9,482	9,482	9,482	9,482	24,372			
9+9+9+12+12		8,615	8,615	8,615	8,715	8,715				9,108	9,108	9,108	12,469	12,469			
9+9+9+12+18		8,615	8,615	8,615	8,715	13,328				9,108	9,108	9,108	12,469	18,472			
9+9+9+12+21		8,615	8,615	8,615	8,715	15,261				9,108	9,108	9,108	12,469	21,470			
9+9+9+12+24		8,615	8,615	8,615	8,715	16,643				8,752	8,752	8,752	11,453	23,759			
9+9+9+18+18		8,615	8,615	8,615	13,426	14,417				8,752	8,752	8,752	17,642	17,642			
9+9+9+18+21		8,615	8,615	8,615	13,417	14,861				8,197	8,197	8,197	16,449	19,874			
9+9+9+18+24		8,243	8,243	8,243	13,217	14,361				8,197	8,197	8,197	16,449	20,471			
9+9+9+21+21		8,243	8,243	8,243	14,361	14,861				8,197	8,197	8,197	18,357	18,357			
9+9+9+21+24		8,243	8,243	8,243	14,161	14,961				7,543	7,543	7,543	18,357	20,471			
9+9+12+12+12		8,615	8,615	8,714	8,714	8,714				9,482	9,482	11,745	11,745	11,745			
9+9+12+12+18		8,615	8,615	8,714	8,714	14,417				9,482	9,482	11,745	11,745	18,357			
9+9+12+12+21		8,615	8,615	8,714	8,714	15,829				9,482	9,482	11,745	11,745	19,723			
9+9+12+12+24		8,615	8,615	8,714	8,714	18,846				8,752	8,752	10,952	10,652	22,736			
9+9+12+18+18		8,323	8,323	8,524	13,328	13,328				8,752	8,752	10,473	16,817	16,817			
9+9+12+18+21		8,323	8,323	8,524	13,328	15,246				8,247	8,247	9,645	16,284	19,439			
9+9+12+18+24		8,323	8,323	8,524	13,328	16,120				8,247	8,247	9,645	16,284	19,672			
9+9+12+21+21		8,013	8,013	8,224	14,618	14,618				7,864	7,864	9,363	18,357	18,357			
9+12+12+12+12		8,615	8,915	8,915	8,915	8,915				8,752	10,952	10,952	10,952	10,952			
9+12+12+12+18		8,615	8,915	8,915	8,915	13,328				8,752	10,952	10,952	10,952	16,817			
9+12+12+12+21		8,615	8,915	8,915	8,915	15,736				8,752	10,952	10,952	10,952	18,763			
9+12+12+12+24		8,615	8,915	8,915	8,915	18,462				8,752	10,952	10,952	10,952	20,439			
9+12+12+18+18		8,323	8,524	8,524	13,328	13,328				8,439	10,364	10,364	16,273	16,273			
9+12+12+18+21		8,323	8,524	8,524	13,328	15,736				8,197	9,482	9,482	16,273	18,443			
12+12+12+12+12		9,604	9,604	9,604	9,604	9,604				11,745	11,745	11,745	11,745	11,745			
12+12+12+12+18		9,604	9,604	9,604	9,604	13,328				10,952	10,952	10,952	10,952	16,817			
12+12+12+12+21		9,604	9,604	9,604	9,604	14,736				10,364	10,364	10,364	10,364	19,482			
12+12+12+12+24		9,604	9,604	9,604	9,604	16,472				10,364	10,364	10,364	10,364	20,649			
12+12+12+18+18		9,604	9,604	9,604	13,147	13,147				9,482	9,482	9,482	16,817	16,817			
9+9+9+9+9+9	SIX ZONES	8,013	8,013	8,013	8,013	8,013	8,013			9,482	9,482	9,482	9,482	9,482	9,482		
9+9+9+9+9+12		8,013	8,013	8,013	8,013	8,013	8,413			9,482	9,482	9,482	9,482	9,482	12,367		
9+9+9+9+9+18		8,013	8,013	8,013	8,013	8,013	13,513			8,629	8,629	8,629	8,629	8,629	17,592		
9+9+9+9+9+21		7,926	7,926	7,926	7,926	7,926	14,625			8,629	8,629	8,629	8,629	8,629	18,627		
9+9+9+9+9+24		7,926	7,926	7,926	7,926	7,926	15,640			8,438	8,438	8,438	8,438	8,438	19,720		
9+9+9+9+12+12		7,926	7,926	7,926	7,926	8,207	8,207			8,876	8,876	8,876	8,876	11,263	11,263		
9+9+9+9+12+18		7,926	7,926	7,926	7,926	8,207	13,513			8,876	8,876	8,876	8,876	10,682	16,346		
9+9+9+9+12+21		7,926	7,926	7,926	7,926	8,207	14,625			8,438	8,438	8,438	8,438	9,953	18,473		
9+9+9+9+12+24		7,926	7,926	7,926	7,926	8,207	15,340			8,142	8,142	8,142	8,142	9,671	19,720		
9+9+9+12+12+12		7,926	7,926	7,926	8,207	8,207	8,207			8,876	8,876	8,876	11,263	11,263	11,263		
9+9+9+12+12+18		7,926	7,926	7,926	8,207	8,207	13,256			8,438	8,438	8,438	9,953	9,953	16,346		
9+9+9+12+12+21		7,926	7,926	7,926	8,207	8,207	14,327			8,438	8,438	8,438	9,953	9,953	17,953		
9+9+12+12+12+12		7,926	7,926	8,207	8,207	8,207	8,207			8,438	8,438	11,263	11,263	11,263	11,263		
9+9+12+12+12+18		7,926	7,926	8,207	8,207	8,207	13,256			8,438	8,438	9,953	9,953	9,953	15,472		
9+9+9+9+9+9+9	SEVEN ZONES	7,168	7,168	7,168	7,168	7,168	7,168	7,168		8,438	8,438	8,438	8,438	8,438	8,438	8,438	
9+9+9+9+9+9+12		7,168	7,168	7,168	7,168	7,168	7,168	7,868		8,134	8,134	8,134	8,134	8,134	8,134	10,461	
9+9+9+9+9+9+18		6,832	6,832	6,832	6,832	6,832	6,832	11,430		7,629	7,629	7,629	7,629	7,629	7,629	15,493	
9+9+9+9+9+12+12		7,168	7,168	7,168	7,168	7,168	7,868	7,868		7,629	7,629	7,629	7,629	7,629	10,133	10,133	
9+9+9+9+12+12+12		7,168	7,168	7,168	7,168	7,868	7,868	7,868		7,629	7,629	7,629	7,629	10,133	10,133	10,133	
9+9+9+9+9+9+9+9	8 ZONES	6,832	6,832	6,832	6,832	6,832	6,832	6,832	6,832	7,629	7,629	7,629	7,629	7,629	7,629	7,629	7,629

Outdoor Unit Model	Multi	Cooling Capacity (Btu/h) @ 95°F (DB)				Heating Capacity (Btu/h) @ 47°F (DB)			
38GJQL56---3	Type	Zone 1	Zone 2	Zone 3	Zone 4	Zone 1	Zone 2	Zone 3	Zone 4
9+18	DUAL ZONE	8,576	17,462			9,176	18,637		
9+21		8,576	20,456			9,176	21,469		
9+24		8,576	23,194			9,176	24,573		
12+18		11,390	17,462			12,379	18,637		
12+21		11,390	20,456			12,379	21,469		
12+24		11,390	23,194			12,379	24,573		
18+18		16,728	16,728			18,637	18,637		
18+21		16,728	20,456			18,637	21,469		
18+24		16,728	23,194			18,637	24,573		
21+21		20,456	20,456			21,469	21,469		
21+24		20,456	23,194			21,469	24,573		
24+24		23,194	23,194			24,573	24,573		
9+9+12	TRI ZONE	8,576	8,576	11,390		9,176	9,176	12,379	
9+9+18		8,576	8,576	16,728		9,176	9,176	18,637	
9+9+21		8,576	8,576	20,456		9,176	9,176	21,469	
9+9+24		8,576	8,576	23,194		9,176	9,176	24,573	
9+12+12		8,576	11,390	11,390		9,176	12,379	12,379	
9+12+18		8,576	11,390	16,728		9,176	12,379	18,637	
9+12+21		8,576	11,390	20,456		9,176	12,379	21,469	
9+12+24		8,576	11,390	23,194		9,176	12,379	24,573	
9+18+18		8,576	16,728	16,728		9,176	18,637	18,637	
9+18+21		8,576	16,728	20,456		9,176	18,637	21,469	
9+18+24		8,576	16,728	23,194		9,176	18,637	24,573	
9+21+21		8,576	20,456	20,456		9,176	21,469	21,469	
9+21+24		8,576	20,456	23,194		9,176	21,469	24,573	
9+24+24		8,576	22,684	22,684		9,176	24,573	24,573	
12+12+12		11,390	11,390	11,390		12,379	12,379	12,379	
12+12+18		11,390	11,390	16,728		12,379	12,379	18,637	
12+12+21		11,390	11,390	20,456		12,379	12,379	21,469	
12+12+24		11,390	11,390	23,194		12,379	12,379	24,573	
12+18+18		11,390	16,728	16,728		12,379	18,637	18,637	
12+18+21		11,390	16,728	20,456		12,379	18,637	21,469	
12+18+24		11,390	16,728	23,194		12,379	18,637	24,573	
12+21+21		11,390	19,748	19,748		12,379	21,469	21,469	
12+21+24		11,390	19,748	22,493		12,379	21,469	24,573	
12+24+24		11,390	22,493	22,493		12,379	24,573	24,573	
18+18+18		16,728	16,728	16,728		18,637	18,637	18,637	
18+18+21		16,728	16,728	19,748		18,637	18,637	21,469	
18+18+24		16,728	16,728	21,720		18,637	18,637	24,573	
18+21+21		16,728	19,748	19,748		17,693	20,421	20,421	
18+21+24		16,728	19,748	21,720		17,693	20,421	23,633	
18+24+24		16,728	21,720	21,720		17,693	23,633	23,633	
21+21+21		19,253	19,253	19,253		20,421	20,421	20,421	
21+21+24		18,974	18,974	20,469		20,421	20,421	23,633	
21+24+24		18,974	20,469	20,469		20,421	23,633	23,633	
24+24+24		20,469	20,469	20,469		23,154	23,154	23,154	
9+9+9+9	QUAD ZONE	8,576	8,576	8,576	8,576	9,176	9,176	9,176	9,176
9+9+9+12		8,576	8,576	8,576	11,390	9,176	9,176	9,176	12,379
9+9+9+18		8,576	8,576	8,576	16,492	9,176	9,176	9,176	18,637
9+9+9+21		8,576	8,576	8,576	19,857	9,176	9,176	9,176	21,469
9+9+9+24		8,576	8,576	8,576	20,479	9,176	9,176	9,176	24,573
9+9+12+12		8,576	8,576	11,390	11,390	9,176	9,176	12,379	12,379
9+9+12+18		8,576	8,576	11,390	16,492	9,176	9,176	12,379	18,637
9+9+12+21		8,576	8,576	11,390	19,857	9,176	9,176	12,379	21,469
9+9+12+24		8,576	8,576	11,390	20,479	9,176	9,176	12,379	24,573
9+9+18+18		8,576	8,576	16,492	16,492	9,176	9,176	18,637	18,637
9+9+18+21		8,576	8,576	16,492	19,857	9,176	9,176	18,637	21,469
9+9+18+24		8,576	8,576	16,492	20,479	9,176	9,176	18,637	24,573
9+9+21+21		8,576	8,576	19,857	19,857	9,176	9,176	21,469	21,469
9+9+21+24		8,576	8,576	19,857	20,479	9,176	9,176	21,469	24,573
9+9+24+24		8,576	8,576	20,479	20,479	9,176	9,176	24,573	24,573
9+12+12+12		8,576	11,390	11,390	11,390	9,176	12,379	12,379	12,379
9+12+12+18		8,576	11,390	11,390	16,492	9,176	12,379	12,379	18,637
9+12+12+21		8,576	11,390	11,390	19,857	9,176	12,379	12,379	21,469
9+12+12+24		8,576	11,390	11,390	20,479	9,176	12,379	12,379	24,573
9+12+18+18		8,576	11,390	16,492	16,492	9,176	12,379	18,637	18,637
9+12+18+21		8,576	11,390	16,492	19,857	9,176	12,379	18,637	21,469
9+12+18+24		8,576	11,390	16,492	20,479	9,176	12,379	18,637	24,573
9+12+21+21		8,576	11,390	19,857	19,857	9,176	12,379	21,469	21,469
9+12+21+24		8,576	11,390	19,857	20,479	9,176	12,379	21,469	24,573
9+12+24+24		8,576	11,390	20,479	20,479	9,176	12,379	24,573	24,573
9+18+18+18		8,147	15,782	15,782	15,782	8,654	17,325	17,325	17,325
9+18+18+21		8,147	15,782	15,782	18,420	8,654	17,325	17,325	20,397
9+18+18+24		8,147	15,782	15,782	19,734	8,654	17,325	17,325	22,963
9+18+21+21		8,147	15,782	18,420	18,420	8,654	17,325	20,397	20,397
9+18+21+24		8,147	15,782	18,420	19,734	8,654	17,325	20,397	21,964
9+18+24+24		8,147	15,428	19,073	19,073	8,029	16,758	21,964	21,964
9+21+21+21		7,538	17,243	17,243	17,243	8,029	19,469	19,469	19,469
9+21+21+24		7,538	17,243	17,243	18,413	8,029	19,469	19,469	20,385
9+21+24+24		7,538	17,243	18,413	18,413	8,029	19,469	20,385	20,385
9+24+24+24		7,538	18,413	18,413	18,413	8,029	20,385	20,385	20,385
12+12+12+12		11,390	11,390	11,390	11,390	12,379	12,379	12,379	12,379
12+12+12+18		11,390	11,390	11,390	16,492	12,379	12,379	12,379	17,325
12+12+12+21		11,390	11,390	11,390	18,420	12,379	12,379	12,379	20,397
12+12+12+24		11,390	11,390	11,390	19,073	12,379	12,379	12,379	21,964
12+12+18+18		11,390	11,390	16,492	16,492	12,379	12,379	17,325	17,325
12+12+18+21		11,390	11,390	16,492	18,420	12,379	12,379	17,325	20,397
12+12+18+24		11,390	11,390	16,492	19,073	12,379	12,379	17,325	21,964
12+12+21+21		11,390	11,390	18,420	18,420	11,758	11,758	20,397	20,397
12+12+21+24		11,390	11,390	18,420	19,073	11,758	11,758	20,397	21,964
12+12+24+24		11,390	11,390	19,073	19,073	11,758	11,758	21,964	21,964

Outdoor Unit Model	Multi	Cooling Capacity (Btu/h) @ 95°F (DB)					Heating Capacity (Btu/h) @ 47°F (DB)				
38GJQL56---3	Type	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
9+9+9+9+9	PENTA ZONE	8,576	8,576	8,576	8,576	8,576	9,176	9,176	9,176	9,176	9,176
9+9+9+9+12		8,576	8,576	8,576	8,576	11,390	9,176	9,176	9,176	9,176	12,379
9+9+9+9+18		8,576	8,576	8,576	8,576	16,492	9,176	9,176	9,176	9,176	17,325
9+9+9+9+21		8,576	8,576	8,576	8,576	19,857	9,176	9,176	9,176	9,176	20,397
9+9+9+9+24		8,576	8,576	8,576	8,576	20,479	9,176	9,176	9,176	9,176	21,964
9+9+9+12+12		8,576	8,576	8,576	11,390	11,390	9,176	9,176	9,176	12,379	12,379
9+9+9+12+18		8,576	8,576	8,576	11,390	16,492	9,176	9,176	9,176	12,379	17,325
9+9+9+12+21		8,576	8,576	8,576	11,390	19,857	9,176	9,176	9,176	12,379	20,397
9+9+9+12+24		8,576	8,576	8,576	11,390	20,479	9,176	9,176	9,176	12,379	21,964
9+9+9+18+18		8,576	8,576	8,576	16,492	16,492	9,176	9,176	9,176	17,325	17,325
9+9+9+18+21		8,576	8,576	8,576	16,492	19,857	9,176	9,176	9,176	17,325	20,397
9+9+9+18+24		8,576	8,576	8,576	16,492	20,479	9,176	9,176	9,176	17,325	21,964
9+9+9+21+21		8,143	8,143	8,143	19,361	19,361	9,176	9,176	9,176	20,397	20,397
9+9+9+21+24		8,143	8,143	8,143	19,361	20,263	9,176	9,176	9,176	20,397	21,964
9+9+12+12+12		8,143	8,143	11,390	11,390	11,390	9,176	9,176	12,379	12,379	12,379
9+9+12+12+18		8,143	8,143	11,390	11,390	16,492	9,176	9,176	12,379	12,379	17,325
9+9+12+12+21		8,143	8,143	11,390	11,390	19,857	9,176	9,176	12,379	12,379	20,397
9+9+12+12+24		8,143	8,143	11,390	11,390	20,263	9,176	9,176	12,379	12,379	21,964
9+9+12+18+18		7,861	7,861	10,682	16,273	16,273	8,564	8,564	11,293	16,945	16,945
9+9+12+18+21		7,861	7,861	10,682	16,273	17,896	8,564	8,564	11,293	16,945	19,758
9+9+12+18+24		7,861	7,861	10,682	16,273	18,432	8,564	8,564	11,293	16,945	21,964
9+9+12+21+21		7,359	7,359	9,738	17,682	17,682	8,564	8,564	11,293	19,758	19,758
9+9+12+21+24		7,359	7,359	9,738	17,682	18,361	8,275	8,275	10,818	18,966	21,964
9+9+12+24+24		7,359	7,359	9,738	18,361	18,361	8,275	8,275	10,818	20,864	20,864
9+9+18+18+18		7,359	7,359	14,663	14,663	14,663	8,275	8,275	16,351	16,351	16,351
9+9+18+18+21		7,359	7,359	14,663	14,663	16,835	8,275	8,275	15,947	15,947	18,966
9+9+18+18+24		7,359	7,359	14,663	14,663	18,361	8,275	8,275	15,947	15,947	20,864
9+9+18+21+21		7,182	7,182	14,113	16,235	16,235	7,963	7,963	15,947	18,966	18,966
9+9+18+21+24		7,182	7,182	14,113	16,235	18,361	7,963	7,963	15,947	18,241	20,208
9+12+12+12+12		8,576	11,390	11,390	11,390	11,390	9,176	12,379	12,379	12,379	12,379
9+12+12+12+18		8,576	11,390	11,390	11,390	16,273	9,176	12,379	12,379	12,379	17,325
9+12+12+12+21		8,143	10,682	10,682	10,682	18,346	9,176	12,379	12,379	12,379	20,864
9+12+12+12+24		8,143	10,682	10,682	10,682	19,651	9,176	12,379	12,379	12,379	21,964
9+12+12+18+18		8,143	10,682	10,682	14,663	14,663	8,564	11,293	11,293	16,351	16,351
9+12+12+18+21		8,143	10,682	10,682	14,663	16,835	8,564	11,293	11,293	16,351	20,864
9+12+12+18+24		7,359	9,738	9,738	14,663	19,651	8,564	11,293	11,293	16,351	21,964
9+12+12+21+21		7,359	9,738	9,738	16,835	16,835	8,275	10,818	10,818	18,966	18,966
9+12+12+21+24		7,359	9,738	9,738	16,835	19,651	8,275	10,818	10,818	18,966	21,117
9+12+12+24+24		7,359	9,357	9,357	18,632	18,632	8,275	10,818	10,818	20,496	20,496
12+12+12+12+12		11,390	11,390	11,390	11,390	11,390	11,293	11,293	11,293	11,293	11,293
12+12+12+12+18		10,682	10,682	10,682	10,682	14,663	11,293	11,293	11,293	11,293	16,855
12+12+12+12+21		10,682	10,682	10,682	10,682	16,835	11,293	11,293	11,293	11,293	19,535
12+12+12+12+24		10,682	10,682	10,682	10,682	19,651	11,293	11,293	11,293	11,293	22,314
12+12+12+18+18		9,738	9,738	9,738	14,663	14,663	10,879	10,879	10,879	16,228	16,228
12+12+12+18+21		9,738	9,738	9,738	14,663	16,835	10,879	10,879	10,879	16,228	18,854
12+12+12+18+24		9,738	9,738	9,738	14,663	18,743	10,879	10,879	10,879	16,228	21,030
12+12+12+21+21		9,357	9,357	9,357	16,763	16,763	10,492	10,492	10,492	17,950	17,950
12+12+12+21+24		9,357	9,357	9,357	16,763	18,743	10,492	10,492	10,492	17,950	20,410
12+12+18+18+18		9,357	9,357	14,663	14,663	14,663	10,492	10,492	15,933	15,933	15,933
12+12+18+18+21		9,357	9,357	14,138	14,138	16,231	10,492	10,492	15,933	15,933	17,851

Outdoor Unit Model	Multi	Cooling Capacity (Btu/h) @ 95°F (DB)									Heating Capacity (Btu/h) @ 47°F (DB)								
38GJQL56---3	Type	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9
9+9+9+9+9+9	SIX ZONES	8,576	8,576	8,576	8,576	8,576	8,576				9,176	9,176	9,176	9,176	9,176	9,176			
9+9+9+9+9+12		8,576	8,576	8,576	8,576	8,576	11,390				9,176	9,176	9,176	9,176	9,176	12,379			
9+9+9+9+9+18		8,576	8,576	8,576	8,576	8,576	14,663				9,176	9,176	9,176	9,176	9,176	17,325			
9+9+9+9+9+21		8,576	8,576	8,576	8,576	8,576	16,273				9,176	9,176	9,176	9,176	9,176	18,966			
9+9+9+9+9+24		8,576	8,576	8,576	8,576	8,576	19,651				9,176	9,176	9,176	9,176	9,176	21,117			
9+9+9+9+12+12		8,576	8,576	8,576	8,576	11,390	11,390				9,176	9,176	9,176	9,176	12,379	12,379			
9+9+9+9+12+18		8,576	8,576	8,576	8,576	11,390	14,663				9,176	9,176	9,176	9,176	12,379	17,325			
9+9+9+9+12+21		8,143	8,143	8,143	8,143	10,682	16,835				8,852	8,852	8,852	8,852	11,763	18,966			
9+9+9+9+12+24		8,143	8,143	8,143	8,143	10,682	19,651				8,852	8,852	8,852	8,852	11,763	21,117			
9+9+9+9+18+18		7,359	7,359	7,359	7,359	14,663	14,663				8,634	8,634	8,634	8,634	16,825	16,825			
9+9+9+9+18+21		7,359	7,359	7,359	7,359	14,663	16,835				8,634	8,634	8,634	8,634	16,825	18,516			
9+9+9+9+18+24		7,359	7,359	7,359	7,359	14,663	19,238				8,634	8,634	8,634	8,634	16,825	19,341			
9+9+9+9+21+21		7,359	7,359	7,359	7,359	16,835	16,835				8,274	8,274	8,274	8,274	18,216	18,216			
9+9+9+9+21+24		7,359	7,359	7,359	7,359	15,963	18,426				8,274	8,274	8,274	8,274	18,216	19,025			
9+9+9+12+12+12		8,143	8,143	8,143	10,682	10,682	10,682				8,852	8,852	8,852	11,763	11,763	11,763			
9+9+9+12+12+18		8,143	8,143	8,143	10,682	10,682	14,663				8,852	8,852	8,852	11,763	11,763	17,325			
9+9+9+12+12+21		8,143	8,143	8,143	10,251	10,251	16,196				8,852	8,852	8,852	11,763	11,763	18,461			
9+9+9+12+12+24		7,359	7,359	7,359	9,675	9,675	19,238				8,852	8,852	8,852	11,763	11,763	20,175			
9+9+9+12+18+18		7,359	7,359	7,359	9,675	14,663	14,663				8,395	8,395	8,395	11,089	16,457	16,457			
9+9+9+12+18+21		7,359	7,359	7,359	9,675	14,663	16,196				7,923	7,923	7,923	10,714	16,054	19,205			
9+9+9+12+18+24		7,164	7,164	7,164	9,083	14,261	17,826				7,653	7,653	7,653	10,714	15,768	19,851			
9+9+9+12+21+21		6,924	6,924	6,924	9,083	15,750	15,750				7,653	7,653	7,653	10,313	18,127	18,127			
9+9+12+12+12+12		8,143	8,143	10,251	10,251	10,251	10,251				8,852	8,852	11,763	11,763	11,763	11,763			
9+9+12+12+12+18		8,143	8,143	10,251	10,251	10,251	14,663				8,395	8,395	11,354	11,354	11,354	16,457			
9+9+12+12+12+21		8,143	8,143	10,251	10,251	10,251	16,196				8,395	8,395	11,354	11,354	11,354	18,461			
9+9+12+12+12+24		7,359	7,359	10,251	10,251	10,251	18,838				8,395	8,395	11,354	11,354	11,354	19,851			
9+9+12+12+18+18		7,359	7,359	9,675	9,675	14,663	14,663				7,653	7,653	10,714	10,714	16,053	16,053			
9+9+12+12+18+21		7,359	7,359	9,675	9,675	14,663	15,750				7,653	7,653	10,451	10,451	16,053	18,060			
9+12+12+12+12+12		7,359	9,675	9,675	9,675	9,675	9,675				7,653	10,451	10,451	10,451	10,451	10,451			
9+12+12+12+12+18		7,359	9,675	9,675	9,675	9,675	14,459				7,653	10,451	10,451	10,451	10,451	16,053			
9+12+12+12+12+21		7,359	9,675	9,675	9,675	9,675	16,824				7,653	10,451	10,451	10,451	10,451	18,060			
9+12+12+12+12+24		7,359	9,675	9,675	9,675	9,675	18,123				7,653	10,451	10,451	10,451	10,451	19,851			
9+12+12+12+18+18		6,924	9,083	9,083	9,083	14,663	14,663				7,653	10,206	10,206	10,451	15,753	15,753			
12+12+12+12+12+12		9,083	9,083	9,083	9,083	9,083	9,083				10,206	10,206	10,206	10,206	10,206	10,206			
12+12+12+12+12+18		9,083	9,083	9,083	9,083	9,083	14,459				10,206	10,206	10,206	10,206	10,206	16,053			
12+12+12+12+12+21		9,083	9,083	9,083	9,083	9,083	16,824				10,206	10,206	10,206	10,206	10,206	18,060			
9+9+9+9+9+9+9	SEVEN ZONES	7,650	7,650	7,650	7,650	7,650	7,650	7,650			8,852	8,852	8,852	8,852	8,852	8,852	8,852		
9+9+9+9+9+9+12		7,650	7,650	7,650	7,650	7,650	7,650	10,263			8,852	8,852	8,852	8,852	8,852	8,852	11,763		
9+9+9+9+9+9+18		7,650	7,650	7,650	7,650	7,650	7,650	15,362			8,395	8,395	8,395	8,395	8,395	8,395	16,053		
9+9+9+9+9+9+21		7,650	7,650	7,650	7,650	7,650	7,650	17,856			8,395	8,395	8,395	8,395	8,395	8,395	19,335		
9+9+9+9+9+9+24		7,550	7,550	7,550	7,550	7,550	7,550	18,920			8,395	8,395	8,395	8,395	8,395	8,395	20,157		
9+9+9+9+9+12+12		7,150	7,150	7,150	7,150	7,150	9,654	9,654			8,395	8,395	8,395	8,395	8,395	10,206	10,206		
9+9+9+9+9+12+18		7,150	7,150	7,150	7,150	7,150	9,654	14,423			8,395	8,395	8,395	8,395	8,395	10,206	15,074		
9+9+9+9+9+12+21		7,150	7,150	7,150	7,150	7,150	9,654	16,827			8,395	8,395	8,395	8,395	8,395	10,206	17,430		
9+9+9+9+9+12+24		7,150	7,150	7,150	7,150	7,150	9,654	18,149			8,242	8,242	8,242	8,242	8,242	10,153	19,054		
9+9+9+9+9+18+18		7,150	7,150	7,150	7,150	7,150	13,561	13,561			7,628	7,628	7,628	7,628	7,628	15,203	15,203		
9+9+9+9+12+12+12		7,150	7,150	7,150	7,150	9,411	9,411	9,411			8,395	8,395	8,395	8,395	10,206	10,206	10,206		
9+9+9+9+12+12+18		7,150	7,150	7,150	7,150	9,411	9,411	13,561			8,395	8,395	8,395	8,395	10,206	10,206	15,074		
9+9+9+9+12+12+21		7,150	7,150	7,150	7,150	9,411	9,411	16,827			7,961	7,961	7,961	7,961	10,206	10,206	17,430		
9+9+9+12+12+12+12		7,150	7,150	7,150	9,411	9,411	9,411	9,411			7,961	7,961	7,961	10,206	10,206	10,206	10,206		
9+9+9+12+12+12+18		7,150	7,150	7,150	9,411	9,411	9,411	9,411			7,961	7,961	7,961	10,206	10,206	10,206	15,074		
9+9+12+12+12+12+12		7,150	7,150	9,411	9,411	9,411	9,411	9,411			7,961	7,961	10,206	10,206	10,206	10,206	10,206		
9+12+12+12+12+12+12		7,150	9,411	9,411	9,411	9,411	9,411	9,411			7,961	10,206	10,206	10,206	10,206	10,206	10,206		
9+9+9+9+9+9+9+9	EIGHT ZONES	7,550	7,550	7,550	7,550	7,550	7,550	7,550	7,550		7,961	7,961	7,961	7,961	7,961	7,961	7,961	7,961	
9+9+9+9+9+9+9+12		7,550	7,550	7,550	7,550	7,550	7,550	7,550	10,120		7,961	7,961	7,961	7,961	7,961	7,961	7,961	10,206	
9+9+9+9+9+9+9+18		7,150	7,150	7,150	7,150	7,150	7,150	7,150	13,561		7,961	7,961	7,961	7,961	7,961	7,961	7,961	15,074	
9+9+9+9+9+9+12+12		7,150	7,150	7,150	7,150	7,150	7,150	10,120	10,120		7,961	7,961	7,961	7,961	7,961	7,961	10,206	10,206	
9+9+9+9+9+12+12+12		7,150	7,150	7,150	7,150	7,150	9,602	9,602	9,602		7,961	7,961	7,961	7,961	7,961	10,206	10,206	10,206	
9+9+9+9+9+9+9+9+9	9 ZONES	6,924	6,924	6,924	6,924	6,924	6,924	6,924	6,924	6,924	7,759	7,759	7,759	7,759	7,759	7,759	7,759	7,759	7,759