



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

BASEPAN HEATER FACTORY INSTALLED

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	Low Ambient Htg. / Cig.	Space for Distributor Use
		@ 5° F	@ -13° F	@ -22° F	Liquid Line									
38MGRQ18B--3	2	13 900 / 73%	6 540 / 34%	5 520 / 29%	2 @ 1/4"	10'	82'	131'	49'	49'	18A	25A	-22°F / -13°F	
38MGRQ24C--3	3	23 000 / 100%	17 500 / 77%	13 850 / 60%	3 @ 1/4"	10'	98'	197'	74'	49'	25A	35A	-22°F / -13°F	
38MGRQ30D--3	4	28 000 / 100%	20 650 / 74%	16 700 / 60%	4 @ 1/4"	10'	115'	263'	98'	49'	30A	45A	-22°F / -13°F	
38MGRQ36D--3	4	36 000 / 100%	27 650 / 77%	23 030 / 64%	4 @ 1/4"	10'	115'	328'	123'	65'	35A	50A	-22°F / -13°F	
38MGRQ48E--3	5	36 000 / 75%	28 050 / 58%	23 330 / 49%	5 @ 1/4"	10'	115'	328'	123'	65'	35A	50A	-22°F / -13°F	

Indoor Units and the Approved Combinations

Ducted Unit	Ceiling Cassette	Infinity™ High Wall		Performance™ High Wall		Comfort™ High Wall		Console
		High Wall Models	High Wall Models	High Wall Models	High Wall Models			
40MBCB09D--3	40MBCQ09--3	40MBCQ09XA3	40MBCQ09B--3	40MHHQ09--3	40MBCQ09--3	40MHHQ09--3	40MBCQ09--3	
40MBCB12D--3	40MBCQ12--3	40MBCQ12XA3	40MBCQ12B--3	40MHHQ12--3	40MBCQ12--3	40MHHQ12--3	40MBCQ12--3	
40MBCB18D--3	40MBCQ18--3		40MBCQ18B--3	40MHHQ18--3	40MBCQ18--3	40MHHQ18--3	40MBCQ18--3	
40MBCB24D--3	Grille Part # 40MBCB01C--40MBCQ24--3		40MBCQ24B--3	40MHHQ24--3	40MBCQ24--3	40MHHQ24--3	40MBCQ24--3	
	Grille Part # 40MBCQ02XXX3							

Rated Combinations

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

Single Zone Quick Reference Guide

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	Low Ambient Htg. / C/g.	WIRED CONTROLLER*	Space for Distributor Use
Infinity™ High Wall 1:1 Heat Pump																
9,000	42.0	15.0	15.0	40MPHAQ09XA3	38MPRAQ09AA3	1/4 X 3/8	10'	25'	98'	.16 Oz/FtL	49'	13A/15A	Factory Installed	-22°F / -22°F	Optional	
12,000	32.0	13.5	14.0	40MPHAQ12XA3	38MPRAQ12AA3	1/4 X 1/2	10'	25'	98'	.16 Oz/FtL	49'	15A/20A	Factory Installed	-22°F / -22°F	Optional	
Standard Heating Capacity Systems																
Performance™ High Wall 1:1 Heat Pump																
9,000 - 115 Volt	24.5	15.0	11.2	40MAQB09B-1	38MAQB09R-1	1/4 X 3/8	10'	25'	82'	.16 Oz/FtL	32'	15A/20A	Factory Installed	-13°F / -13°F	Optional	
12,000	22.0	13.0	10.2	40MAQB12B-1	38MAQB12R-1	1/4 X 1/2	10'	25'	82'	.16 Oz/FtL	32'	15A/20A	Factory Installed	-13°F / -13°F	Optional	
30,000	19.8	11.5	9.4	40MAQB30B-3	38MAQB30R-3	3/8 X 5/8	10'	25'	164'	.32 Oz/FtL	82'	20A/30A	Factory Installed	-13°F / -13°F	Optional	
36,000	16.0	8.6	8.5	40MAQB36B-3	38MAQB36R-3	3/8 X 5/8	10'	25'	164'	.32 Oz/FtL	82'	25A/35A	Factory Installed	-13°F / -13°F	Optional	
Performance™ High Wall 1:1 Heat Pump																
9,000	25.0	14.5	11.2	40MAQB09B-3	38MAQB09R-3	1/4 X 3/8	10'	25'	82'	.16 Oz/FtL	32'	9A/15A	Factory Installed	-22°F / -13°F	Optional	
12,000	22.5	12.5	12.0	40MAQB12B-3	38MAQB12R-3	1/4 X 1/2	10'	25'	82'	.16 Oz/FtL	32'	9A/15A	Factory Installed	-22°F / -13°F	Optional	
18,000	20.0	12.5	10.3	40MAQB18B-3	38MAQB18R-3	1/4 X 1/2	10'	25'	98'	.16 Oz/FtL	65'	18A/25A	Factory Installed	-22°F / -13°F	Optional	
24,000	20.5	13.0	10.3	40MAQB24B-3	38MAQB24R-3	3/8 X 5/8	10'	25'	164'	.32 Oz/FtL	65'	20A/30A	Factory Installed	-22°F / -13°F	Optional	
Performance™ Cassette 1:1 Heat Pump																
9,000	20.0	13.0	10.8	40MBCQ09-3	38MAQB09R-3	1/4 X 3/8	10'	25'	82'	.16 Oz/FtL	32'	9A/15A	Factory Installed	-22°F / -13°F	Optional	
12,000	19.5	12.5	10.6	40MBCQ12-3	38MAQB12R-3	1/4 X 1/2	10'	25'	82'	.16 Oz/FtL	32'	9A/15A	Factory Installed	-22°F / -13°F	Optional	
16,000	20.0	12.5	10.5	40MBCQ18-3	38MAQB18R-3	1/4 X 1/2	10'	25'	98'	.16 Oz/FtL	32'	18A/25A	Factory Installed	-22°F / -13°F	Optional	
24,000	20.0	11.0	11.5	40MBCQ24-3	38MAQB24R-3	3/8 X 5/8	10'	25'	164'	.32 Oz/FtL	65'	20A/30A	Factory Installed	-22°F / -13°F	Optional	
Ceiling Cassette Grille for 9K, 12K & 18K BTU 40MBCQ10C--- (branded Carrier) ~ Ceiling Cassette Grille for 24K, 36K & 48K BTU 40MBCQ20XXX3 (unbranded) [Required on all sizes and Sold Separately]																
Performance™ Console 1:1 Heat Pump																
9,000	20.0	12.5	11.6	40MBFQ09-3	38MAQB09R-3	1/4 X 3/8	10'	25'	82'	.16 Oz/FtL	32'	9A/15A	Factory Installed	-22°F / -13°F	Optional	
12,000	19.4	12.5	10.5	40MBFQ12-3	38MAQB12R-3	1/4 X 1/2	10'	25'	82'	.16 Oz/FtL	32'	9A/15A	Factory Installed	-22°F / -13°F	Optional	
16,500	20.0	12.5	11.6	40MBFQ18-3	38MAQB18R-3	1/4 X 1/2	10'	25'	98'	.16 Oz/FtL	32'	18A/25A	Factory Installed	-22°F / -13°F	Optional	
24,000	19.4	12.5	10.5	40MBFQ24-3	38MAQB24R-3	3/8 X 5/8	10'	25'	164'	.32 Oz/FtL	65'	20A/30A	Factory Installed	-22°F / -13°F	Optional	
Ceiling Cassette Grille for 9K, 12K & 18K BTU 40MBCQ10C--- (branded Carrier) ~ Ceiling Cassette Grille for 24K, 36K & 48K BTU 40MBCQ20XXX3 (unbranded) [Required on all sizes and Sold Separately]																
Performance™ Ducted 1:1 Heat Pump																
9,000	23.0	13.5	12.0	40MBDQ09-3	38MAQB09R-3	1/4 X 3/8	10'	25'	82'	.16 Oz/FtL	32'	9A/15A	Factory Installed	-22°F / -13°F	Included	
12,000	20.5	12.5	11.0	40MBDQ12-3	38MAQB12R-3	1/4 X 1/2	10'	25'	82'	.16 Oz/FtL	32'	9A/15A	Factory Installed	-22°F / -13°F	Included	
16,500	19.6	12.5	11.0	40MBDQ18-3	38MAQB18R-3	1/4 X 1/2	10'	25'	98'	.16 Oz/FtL	65'	18A/25A	Factory Installed	-22°F / -13°F	Included	
24,000	20.5	12.5	12.5	40MBDQ24-3	38MAQB24R-3	3/8 X 5/8	10'	25'	164'	.32 Oz/FtL	65'	20A/30A	Factory Installed	-22°F / -13°F	Included	
Performance™ Light Commercial 1:1 Heat Pump																
36,000 Cassette¹	17.5	9.0	10.5	40MBCQ36-3	38MBRQ36A-3	3/8 X 5/8	10'	25'	213'	.43 Oz/FtL	98'	30A/50A	Factory Installed	-22°F / -13°F	Optional	
48,000 Cassette¹	16.8	9.5	11.0	40MBCQ48-3	38MBRQ48A-3	3/8 X 5/8	10'	25'	213'	.43 Oz/FtL	98'	35A/50A	Factory Installed	-22°F / -13°F	Optional	
36,000 Ducted	16.5	9.0	11.5	40MBDQ36-3	38MBRQ36A-3	3/8 X 5/8	10'	25'	213'	.43 Oz/FtL	98'	30A/50A	Factory Installed	-22°F / -13°F	Included	
48,000 Ducted	17.4	9.2	10.3	40MBDQ48-3	38MBRQ48A-3	3/8 X 5/8	10'	25'	213'	.43 Oz/FtL	98'	35A/50A	Factory Installed	-22°F / -13°F	Included	
58,000 Ducted	18.0	10.0	9.0	40MBDQ58-3	38MBRQ58A-3	3/8 X 3/4	10'	25'	213'	.43 Oz/FtL	98'	35A/50A	Factory Installed	-22°F / -13°F	Included	
36,000 Console	16.0	8.0	10.0	40MBFQ36-3	38MBRQ36A-3	3/8 X 5/8	10'	25'	213'	.43 Oz/FtL	98'	30A/50A	Factory Installed	-22°F / -13°F	Optional	
48,000 Console	17.8	9.3	11.0	40MBFQ48-3	38MBRQ48A-3	3/8 X 5/8	10'	25'	213'	.43 Oz/FtL	98'	35A/50A	Factory Installed	-22°F / -13°F	Optional	
58,000 Console	18.0	9.8	10.5	40MBFQ58-3	38MBRQ58A-3	3/8 X 3/4	10'	25'	213'	.43 Oz/FtL	98'	35A/50A	Factory Installed	-22°F / -13°F	Optional	
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																
12,000 - 115 Volt	19.8	10.0	10.6	40MHQ12-1	38MHRBQ12AA1	1/4 X 1/2	10'	25'	82'	.16 Oz/FtL	33'	13A/20A	Factory Installed	0°F / 0°F	Optional	
9,000	18.5	11.2	10.0	40MHQ09-3	38MHRBQ09AA3	1/4 X 3/8	10'	25'	82'	.16 Oz/FtL	33'	8A/15A	Factory Installed	0°F / 0°F	Optional	
12,000	19.8	11.2	9.6	40MHQ12-3	38MHRBQ12AA3	1/4 X 1/2	10'	25'	82'	.16 Oz/FtL	33'	10A/15A	Factory Installed	0°F / 0°F	Optional	
18,000	19.0	11.2	10.6	40MHQ18-3	38MHRBQ18AA3	1/4 X 1/2	10'	25'	98'	.16 Oz/FtL	66'	15A/20A	Factory Installed	0°F / 0°F	Optional	
24,000	17.3	9.7	9.6	40MHQ24-3	38MHRBQ24AA3	3/8 X 5/8	10'	25'	164'	.32 Oz/FtL	66'	18A/25A	Factory Installed	0°F / 0°F	Optional	
Comfort™ High Wall 1:1 Cooling Only																
12,000 - 115 Volt	17.3	10.7	N/A	40MHHC12-1	38MHRBC12A-1	1/4 X 1/2	10'	25'	82'	.16 Oz/FtL	33'	13A/20A	Factory Installed	0°F / 0°F	Optional	
11,500	19.0	11.2	N/A	40MHHC12-3	38MHRBC12A-3	1/4 X 1/2	10'	25'	82'	.16 Oz/FtL	33'	11A/15A	Factory Installed	0°F / 0°F	Optional	
17,000	19.0	10.3	N/A	40MHHC18-3	38MHRBC18A-3	1/4 X 1/2	10'	25'	98'	.16 Oz/FtL	66'	15A/20A	Factory Installed	0°F / 0°F	Optional	
22,000	18.5	11.1	N/A	40MHHC24-3	38MHRBC24A-3	3/8 X 5/8	10'	25'	164'	.32 Oz/FtL	66'	18A/25A	Factory Installed	0°F / 0°F	Optional	
Warranty is 10 years with registration (registration not required in CA and Quebec). In Commercial applications, Warranty is 7 Years Parts & Compressor with Registration. See installation instructions 14/3 Stranded Wire with Ground is the required Control wiring between the indoor and outdoor units																
Control Wiring																
Mid-Tier Ducted	SEN-INS-CAR-01			24 Volt Interface			115-1	Kit Number	Carrier Wi-Fi™ (Wi-Fi is included standard with Infinity High Wall)			KSAIF0101AAA Comfort™ High Wall 9k, 12k & 24k				
Mid-Tier Cassette & Floor Console	SEN-INS-CAR-02			208/230-1			208/230-1	Kit Number	KSAIC0101115 KSAIC0101230			KSAIF0201AAA Comfort™ High Wall 18k				
Mid-Tier High Wall	SEN-INS-CAR-03			1 to 1 Infinity™ (MP Series only), Performance™, & Comfort™ Series			1 to 1 Infinity™	Kit Number	KSAIF0301AAA KSAIF0401AAA			Performance™ Cassette, Ducted Console¹				