

Fantasy Series



R410A MT DC Inverter Condensing Units



1.5~4HP Rotary Compressor Single Compressor Single Fan	6~10HP Rotary Compressor Single Compressor Dual Fans	18HP~21HP Scroll Compressor Dual Compressors Single Fan	27HP~46HP Scroll Compressor Dual Compressors Dual fans	27HP~46HP(Remote) Scroll Compressor Dual Compressors Dual fans
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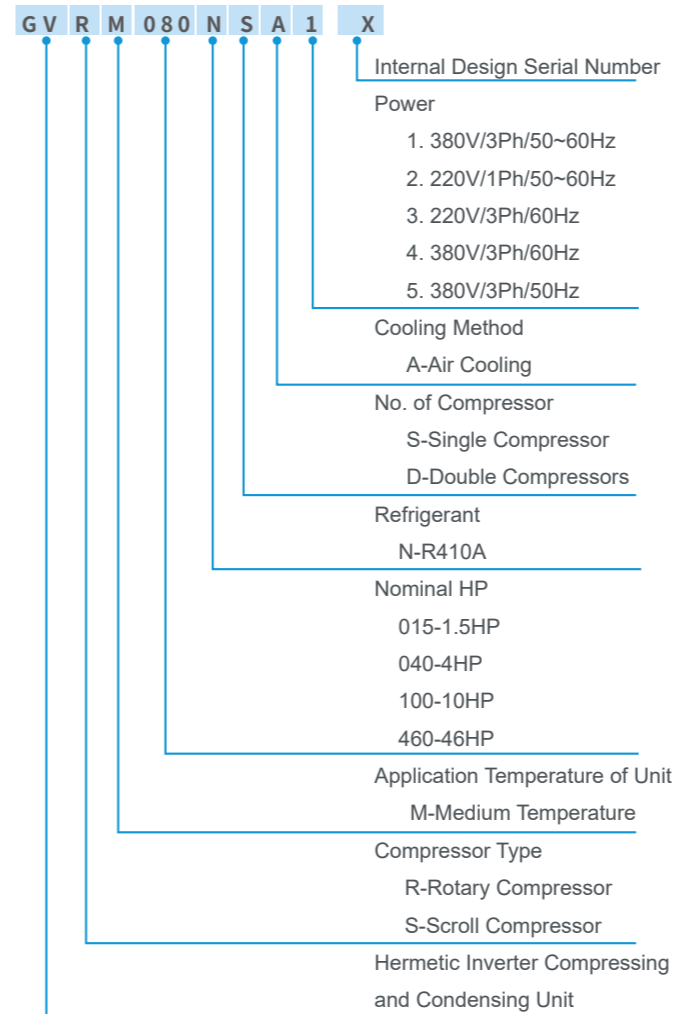
Customer Values

- Various models, applicable for C-stores, supermarkets and cold rooms
- Wide adjustable cooling capacity, little temperature fluctuation for food
- Low operating cost, 30%+ annual energy saving compared with fixed frequency units
- Low noise units, 4dBA noise reduction compared with fixed frequency units
- Small pipe size, saving 15% installation cost
- Adapt to the highest ambient temperature of 43 °C, using extensively
- Compact structure, saving occupied area to save footprint
- Optional split design, suitable for various applications

Product Features

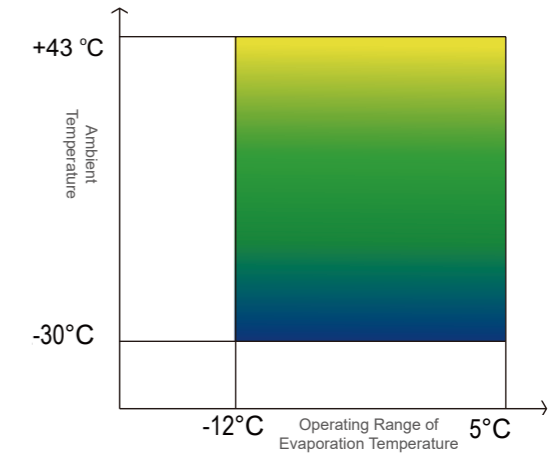
- DC inverter compressor, step-less regulation of load and rotary speed, highly efficient and energy saving
- DC inverter fan, automatically adjustable fan speed, low noise and energy saving
- Thickened sound-absorbing cotton, effective noise insulation
- R410A refrigerant adopted, high cooling capacity per unit volume
- Large-area condensing coils adopted, ensuring high temperature operation
- Integrated enclosure, no separate machine room, saving space and easy installation

Naming Rule of MT DC Inverter Condensing Units

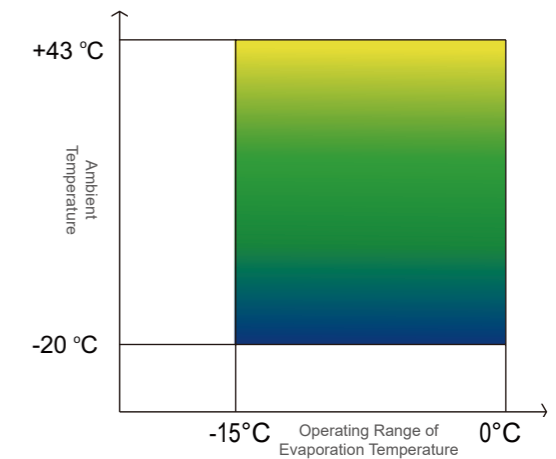


Operation Range

1.5HP~10HP



18HP~46HP



Technical Parameters (1.5-10HP)

Model	GVRM015 NSA2A	GVRM025 NSA2A	GVRM035 NSA2A	GVRM040 NSA1A	GVRM060 NSA1A	GVRM080 NSA1A	GVRM100 NSA1A	GVRM100 NSA3A
Refrigerant	R410A							
Supply Voltage of Unit	220V/1PH/50~60Hz			380V/3PH/50~60Hz				220V / 3PH / 60Hz
Compressor Model	SNB140 FCAMC	TNB220 FFEMC-L	TNB306 FPPMC-L	MNB36 FABMC	MNB42 FFDMC-L	LNB53 FCAMC	LNB65F	LNB65 FAJMC
Type of Refrigerant Oil	FV50S			FV50S				
Compressor Oil Charge (L)	0.35	0.72	1.07	1.1	1.4	1.7	2.3	2.3
Number of Fan	500							
Diameter of Fan (mm)	1			2				
Fan Speed Range (rpm)	300~850							
Maximum Air Volume (m³/h)	4030			7060				
Reservoir Volume (L)	4.5			8.8				
Evaporating Temperature Range	-12°C~5°C							
Unit rated cooling Capacity (kW)	3.0	4.9	6.6	7.3	9.8	11.5	13.5	13.5
Unit rated power (kW)	1.0	1.7	2.4	2.7	3.3	4.1	4.9	4.9
Maximum Cooling Capacity of Unit (kW)	5	8.6	10.0	12.1	16.0	19.2	20.0	20.0
Maximum Power of Unit (kW)	2.1	3.5	5.1	6.3	6.6	8.9	9.3	9.3
Noise of Unit dBA@1m	52	53	53	56	59	60	60	60
Nominal Running Current of Unit (A)	6	9	11	5.0	6.3	8.9	9.6	15.1
Maximum Running Current (A)	12	16	23	12	16	23	25	38
Diameter of Suction Pipe (Inch)	1/2		5/8		3/4		7/8	
Diameter of Liquid Pipe (Inch)	3/8			1/2				
Dimensions (L x W x H) (mm)	1064X424X802			1064X448X1358				
Weight (kg)	93	95	97	97	142	146	150	150

Cooling capacity power testing conditions: National standard medium temperature working conditions: GB/T21363-2008
Evaporating temperature: -7°C, ambient temperature: 32°C, return temperature 18°C.

Performance Parameters (1.5-10HP)

Model	Ambient Temperature °C	Cooling Capacity Q Power Consumption P (kW)	Evaporating Temperature °C							
			-10		-7		-5		0	
			Min	Max	Min	Max	Min	Max	Min	Max
1.5HP	27	Q	2.7	4.5	3.1	5.2	3.4	5.5	4.1	6.8
		P	0.9	1.9	0.9	1.9	1.0	1.9	1.0	2.2
	32	Q	2.7	4.4	3.0	5.0	3.2	5.4	4.0	6.5
		P	1.0	2.1	1.0	2.1	1.1	2.2	1.1	2.3
	38	Q	2.4	4.0	2.7	4.6	2.9	4.9	3.7	5.9
		P	1.1	2.1	1.1	2.1	1.2	2.2	1.2	2.4
43	Q	2.2	3.3	2.5	4.0	2.7	4.1	3.3	5.0	
	P	1.1	2.2	1.2	2.3	1.2	2.3	1.2	2.4	
2.5HP	27	Q	4.6	8.1	5.2	9.1	5.6	9.8	6.7	11.7
		P	1.5	3.1	1.5	3.2	1.5	3.3	1.6	3.5
	32	Q	4.4	7.7	4.9	8.6	5.3	9.3	6.3	11
		P	1.6	3.3	1.7	3.5	1.7	3.5	1.8	3.8
	38	Q	4.1	7.1	4.6	8.0	4.9	8.6	5.9	10.3
		P	1.8	3.6	1.9	3.8	1.9	3.9	2.0	4.1
43	Q	3.8	6.7	4.3	7.5	4.6	8.1	5.6	9.6	
	P	2.0	3.8	2.0	4.0	2.1	4.1	2.2	4.4	
3.5HP	27	Q	6.2	9.4	6.9	10.6	7.5	11.4	8.9	13.5
		P	2.1	3.9	2.1	4.5	2.2	4.7	2.3	5.0
	32	Q	5.9	8.8	6.6	10.0	7.1	10.9	8.5	12.8
		P	2.3	4.4	2.4	5.1	2.4	5.3	2.6	5.5
	38	Q	5.5	8.2	6.1	9.2	6.6	10.0	7.9	11.8
		P	2.6	4.7	2.7	5.5	2.7	5.6	2.9	6.1
43	Q	5.1	7.3	5.7	7.9	6.2	8.7	7.4	10.6	
	P	2.8	5.5	2.9	5.7	2.9	6.0	3.1	6.6	
4HP	27	Q	7.2	12.1	8.0	13.3	8.6	14.1	10.1	16.4
		P	2.4	5.7	2.5	6.0	2.6	6.1	2.7	6.6
	32	Q	6.5	11.0	7.3	12.1	7.8	12.8	9.2	14.8
		P	2.7	6.1	2.7	6.3	2.8	6.6	2.9	7.1
	38	Q	5.8	9.6	6.4	10.6	6.9	11.3	8.1	13.1
		P	2.9	6.7	3.0	6.9	3.1	7.0	3.2	7.6
43	Q	4.9	7.1	5.5	8.2	5.9	8.7	7.0	10.1	
	P	3.2	7.0	3.3	7.6	3.4	6.6	3.6	8.0	
6HP	27	Q	9.1	15.3	10.2	17.0	11.0	18.3	13.3	21.7
		P	2.9	6.0	3.0	6.2	3.0	6.4	3.2	7.0
	32	Q	8.5	14.2	9.8	16.0	10.4	17.2	12.5	20.4
		P	3.2	6.3	3.3	6.6	3.3	6.9	3.5	7.5
	38	Q	7.8	13.2	8.9	14.7	9.6	15.7	11.5	18.9
		P	3.5	6.9	3.6	7.1	3.7	7.4	3.8	7.9
43	Q	7.1	10.4	8.0	11.8	8.6	13.1	10.4	16.4	
	P	3.8	7.4	4.0	7.7	4.0	8.1	4.1	8.9	
8HP	27	Q	10.9	18.2	12.2	20.6	13.2	22.1	15.9	26.4
		P	3.6	7.8	3.8	8.1	3.9	8.5	4.1	9.6
	32	Q	10.2	17.0	11.5	19.2	12.4	20.8	15.0	24.9
		P	3.9	8.3	4.1	8.9	4.2	9.2	4.5	10.2
	38	Q	9.3	15.9	10.6	17.6	11.5	19.0	13.9	22.6
		P	4.3	8.7	4.5	9.6	4.6	10.0	5.0	11.2
43	Q	8.4	12.8	9.5	14.4	10.3	15.8	12.6	19.8	
	P	4.8	9.3	5.0	10.4	5.1	11.0	5.4	12.5	
10HP	27	Q	12.9	19.3	14.3	21.7	15.3	23.4	18.2	27.9
		P	4.3	8.6	4.5	8.7	4.6	9.2	4.8	10
	32	Q	12.0	17.9	13.5	20.0	14.5	21.5	17.2	26.1
		P	4.7	9.1	4.9	9.3	4.9	10.2	5.4	10.6
	38	Q	11.2	16.8	12.5	18.4	13.4	19.8	15.9	23.9
		P	5.3	9.6	5.3	10.2	5.4	10.8	5.9	11.3
43	Q	10.1	13.3	11.2	15.0	12.2	16.4	14.5	20.7	
	P	5.8	10.1	5.9	11.0	6.0	11.7	6.4	12.4	

* This technical parameter is a range of selection parameters, not the actual operating range.

Technical Parameters (18-46HP)

Model	GVSM180NDA50	GVSM210NDA50	GVSM270NDA50	GVSM350NDA50	GVSM460NDA50
Refrigerant	R410A				
Supply Voltage of Unit	380V/3Ph/50Hz				
Compressor Model	SH090+VZH088	SH120+VZH088	SH161+VZH117	SH180+VZH170	SH295+VZH170
Type of Refrigerant Oil	160SZ				
Self-contained Oil in the Compressor	6.3	6.6	6.9	13.4	13.4
Complimentary Oil (Refill according to site requirements) (L)	2.5				
Number of Fan	1		2		
Diameter of Fan (mm)	800				
Fan Speed Range (rpm)	710				930
Nominal Air Volume (m ³ /h)	14000				19000
Oil Accumulator Capacity (L)	4		8		
Reservoir Volume (L)	20		40		
Evaporating Temperature Range	-15°C~0°C				
Unit rated cooling Capacity (kW)	34.3	38.5	49.6	65.3	82.7
Unit rated power (kW)	13.4	15.4	19.6	25.6	33.6
Maximum Cooling Capacity of Unit (kW)	42.1	46.0	59.9	80.6	97.4
Maximum Power of Unit (kW)	18.1	20.2	25.8	34.1	42.1
Noise of Unit dBA@1m (Intergrated)	66	66	66	67	68
Noise of Unit dBA@1m (Remote)	NA	NA	62	64	64
Nominal Running Current of Unit (A)	26	30	39	45	59
Maximum Running Current (A)	60	65	80	100	125
Diameter of Suction Pipe (Inch)	1 3/8	1 3/8	1 5/8	2 1/8	2 1/8
Diameter of Liquid Pipe (Inch)	5/8	5/8	7/8	7/8	1 1/8
Dimensions (L x W x H)(mm)	1240x1050x1870			2240x1200x2250	
Weight (kg)	565	575	700	870	880

Cooling capacity power testing conditions: National standard medium temperature working conditions: GB/T21363-2008
Evaporating temperature: -7°C, ambient temperature: 32°C, return temperature 18°C.

Performance Parameters (18-46HP)

Model	Ambient Temperature °C	Cooling Capacity Q Power Consumption P (kW)	Evaporating Temperature °C							
			-10°C		-7°C		-5°C		0°C	
			Min	Max	Min	Max	Min	Max	Min	Max
18HP	27	Q	29.9	40.2	33.3	44.5	35.7	47.6	42.2	56.0
		P	10.8	16.2	11.0	16.6	11.1	17.0	11.6	17.9
	32	Q	28.2	37.9	31.4	42.1	33.7	45.1	40.0	53.0
		P	11.8	17.6	12.1	18.1	12.2	18.4	12.7	19.4
	38	Q	26.2	35.3	29.2	39.2	31.4	42.0	37.2	49.4
		P	13.3	19.5	13.5	20.0	13.7	20.3	14.2	21.2
	43	Q	24.5	33.0	27.3	36.7	29.4	39.3	34.9	46.3
		P	14.6	21.2	14.8	21.7	15.0	22.0	15.5	22.9
21HP	27	Q	34.1	43.9	38.0	48.7	40.7	52.0	48.0	61.1
		P	12.4	18.0	12.8	18.6	13.0	19.0	13.8	20.3
	32	Q	32.2	41.5	35.9	46.0	38.5	49.2	45.5	57.8
		P	13.7	19.6	14.0	20.2	14.3	20.7	15.0	21.9
	38	Q	29.9	38.5	33.3	42.8	35.8	45.8	42.3	53.9
		P	15.3	21.7	15.7	22.3	16.0	22.8	16.7	24.0
	43	Q	27.9	36.0	31.1	40.0	33.4	42.8	39.7	50.5
		P	16.8	23.6	17.2	24.3	17.5	24.7	18.2	25.9
27HP	27	Q	43.9	57.3	48.7	63.4	52.2	67.8	61.5	79.4
		P	15.8	23.0	16.1	23.6	16.4	24.1	17.0	25.3
	32	Q	41.4	54.1	46.0	59.9	49.3	64.0	58.2	75.1
		P	17.5	25.2	17.8	25.8	18.1	26.3	18.7	27.5
	38	Q	38.3	50.1	42.7	55.6	45.8	59.5	54.1	69.8
		P	19.8	28.1	20.1	28.7	20.3	29.1	20.9	30.4
	43	Q	35.7	46.8	39.9	51.9	42.8	55.5	50.7	65.3
		P	21.8	30.6	22.1	31.2	22.3	31.7	23.0	32.9
35HP	27	Q	56.9	76.9	63.2	85.2	67.7	91.0	79.9	106.5
		P	20.7	30.4	21.0	31.3	21.2	31.9	21.9	33.6
	32	Q	53.8	72.8	59.8	80.6	64.1	86.1	75.7	101.0
		P	22.7	33.2	23.1	34.1	23.3	34.7	24.0	36.4
	38	Q	49.9	67.7	55.6	75.0	59.7	80.2	70.6	94.1
		P	25.5	36.8	25.8	37.7	26.0	38.3	26.7	40.0
	43	Q	46.7	63.3	52.1	70.3	55.9	75.2	66.2	88.3
		P	27.9	40.0	28.3	40.9	28.5	41.5	29.2	43.1
46HP	27	Q	73.8	92.9	81.9	102.9	87.7	109.9	103.3	128.7
		P	27.9	37.7	28.5	38.9	29.0	39.7	30.2	42.0
	32	Q	69.8	87.9	77.5	97.4	83.0	104.0	97.8	121.9
		P	30.4	40.9	31.0	42.1	31.4	42.9	32.7	45.1
	38	Q	64.8	81.8	72.1	90.6	77.3	96.9	91.2	113.6
		P	33.7	45.1	34.3	46.2	34.7	47.0	35.9	49.2
	43	Q	60.6	76.5	67.5	84.9	72.4	90.7	85.5	106.5
		P	36.6	48.9	37.2	50.0	37.7	50.8	38.9	52.9

* This technical parameter is a range of selection parameters, not the actual operating range.