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

Customer Value

- Various models options, applicable for C-stores, supermarkets and cold storage
- Wide adjustable range for cooling capacity and small fluctuation food storage temperature
- Low operation cost and over 30% of annual energy saving compared with Fixed Speed unit
- Quiet unit with 4BA lower sound level compared with Fix speed unit
- Small pipe size to save installation cost
- Application scope is wide with the highest adaptable temperature of 43°C
- Compact structure to save footprint

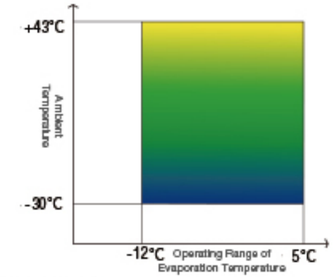
Product Features

- DC inverter compressor design with step-less regulation of load and rotary speed for maintaining high efficiency and saving energy
- DC inverter fan with automatic adjustment of fan speed for reducing noise and saving energy
- Thickened sound insulation cotton with effective noise insulation
- R410A refrigerant adopted with high volumetric efficiency
- Large areas of condensing coils adopted for ensuring operation under high temperature
- Integrated shell without separate machine room for saving space and convenient installation

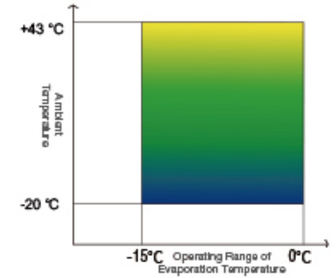
* All comparisons are based on the product performances of last generation.

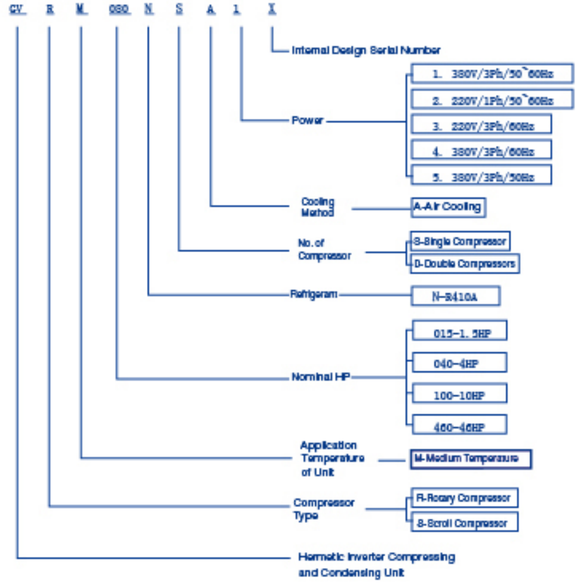
Operation Range and Naming Rule

1.5HP~10HP



18HP~46HP





Technical Parameters (1.5-10HP)

Model	GVRM 015NSA2A	GVRM 025NSA2A	GVRM 035NSA2A	GVRM 040NSA1A	GVRM 060NSA1A	GVRM 080NSA1A	GVRM 100NSA1A
Refrigerant	R410A						
Supply Voltage of Unit	220V/1Ph/50~60Hz			380V/3Ph/50~60Hz			
Compressor Model	SNB14 0FCAMC	TNB220 FFEMC-L	TNB306 FPPMC-L	MNB36 FABMC	MNB42 FFDMC-L	LNB53 FCAMC	LNB65F
Type of Refrigerant Oil	FV50S			FV50S			
Unit Oil Charge (L)	1.35	1.72	2.07	2.4	2.7	3	3.6
Number of Fan	1			2			
Diameter of Fan (mm)	500						
Fan Speed Range (rpm)	300~850						
Maximum Air Volume (m^3/h)	4030					7060	
Reservoir Volume (L)	4.5					8.8	
Maximum Cooling Capacity of Unit (kW)	4.6	7.6	9.3	10.9	14.3	17.5	18.7
Maximum Power of Unit (kW)	1.9	3.2	4.2	5.1	5.5	7.6	8.1
Noise of Unit dBA@1m	52	53	53	56	59	60	60
Nominal Running Current of Unit (A)	6	9	11	5.0	6.3	8.9	9.6
Maximum Running Current (A)	12	16	23	12	16	23	25
Diameter of Suction Pipe (Inch)	1/2		5/8			3/4	
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

Cooling capacity power testing conditions: National standard medium temperature working conditions: GB/T21363-2018

Performance Parameters (1.5-10HP)

Model	Ambient Temperature ℃	Cooling Capacity Q (kW) Power Consumption P (kW)	Evaporating Temperature ℃							
			-10		-7		-5		0	
			Min	Max	Min	Max	Min	Max	Min	Max
1.5HP	27	Q	2.7	4.2	3.1	4.8	3.4	5.1	4.1	6.3
		P	0.9	1.8	0.9	1.8	1.0	1.8	1.0	2.0
	32	Q	2.7	4.1	3.0	4.6	3.3	5.0	4.0	6.0
		P	1.0	1.9	1.0	1.9	1.1	2.0	1.1	2.1
	38	Q	2.4	3.7	2.7	4.2	2.9	4.6	3.7	5.5
		P	1.1	1.9	1.1	2.0	1.2	2.0	1.2	2.2
	43	Q	2.2	3.1	2.5	3.5	2.7	3.9	3.3	4.6
		P	1.1	2.0	1.2	2.2	1.2	2.1	1.2	2.2
2.5HP	27	Q	4.6	7.1	5.3	8.0	5.6	8.5	6.7	10.5
		P	1.5	2.7	1.5	2.7	1.5	2.9	1.6	3.0
	32	Q	4.4	6.8	4.9	7.6	5.3	8.2	6.3	9.7
		P	1.6	2.9	1.7	3.0	1.7	3.1	1.8	3.3
	38	Q	4.1	6.4	4.6	7.0	4.9	7.5	5.9	9.1
		P	1.8	3.1	1.9	3.4	1.9	3.5	2.0	3.7
	43	Q	3.8	5.5	4.3	6.0	4.6	6.7	5.6	8.4
		P	2.0	3.5	2.0	3.6	2.1	3.8	2.2	4.1
3.5HP	27	Q	6.2	9.6	6.9	9.8	7.5	10.6	8.9	12.5
		P	2.1	3.5	2.1	3.7	2.2	3.8	2.3	4.1
	32	Q	5.9	9.3	6.6	9.3	7.1	10.1	8.5	11.9
		P	2.3	3.9	2.4	4.0	2.4	4.0	2.5	4.3
	38	Q	5.5	7.7	6.1	8.5	6.6	9.3	7.9	11.1
		P	2.6	4.2	2.7	4.5	2.7	4.6	2.9	5.0
	43	Q	5.1	6.7	5.7	7.5	6.2	8.2	7.4	10.1
		P	2.8	4.6	2.9	4.9	2.9	5.0	3.1	5.5
4HP	27	Q	7.2	10.6	8.0	11.9	8.6	12.7	10.1	14.8
		P	2.4	4.6	2.5	4.9	2.6	4.9	2.7	5.9
	32	Q	6.5	9.9	7.3	10.9	7.8	11.6	9.2	13.5
		P	2.7	4.8	2.7	5.1	2.8	5.3	2.9	5.7
	38	Q	5.8	8.7	6.4	9.5	6.9	10.3	8.1	12.0
		P	2.9	5.5	3.0	5.8	3.1	5.7	3.3	6.1
	43	Q	4.9	6.5	5.5	7.5	5.9	8.0	7.0	9.4
		P	3.3	5.9	3.3	6.3	3.4	6.3	3.6	6.8
6HP	27	Q	9.1	13.6	10.3	15.3	11.0	16.4	13.0	19.5
		P	2.9	5.0	3.0	5.1	3.0	5.3	3.2	5.7
	32	Q	8.5	12.7	9.6	14.3	10.4	15.4	12.1	18.4
		P	3.3	5.9	3.3	5.5	3.3	5.7	3.5	6.1
	38	Q	7.8	11.9	8.9	13.3	9.6	14.3	11.2	17.0
		P	3.5	5.8	3.6	5.9	3.7	6.1	3.8	6.5
	43	Q	7.1	9.4	8.0	10.7	8.6	11.8	10.4	14.9
		P	3.8	6.1	4.0	6.4	4.0	6.7	4.1	7.3
8HP	27	Q	10.9	16.6	13.3	19.7	13.9	20.1	15.9	24.1
		P	3.8	6.7	3.9	6.9	3.9	7.2	4.1	8.0
	32	Q	10.2	15.5	11.5	17.5	12.4	18.9	15.0	22.7
		P	3.9	7.0	4.1	7.5	4.3	7.9	4.5	8.5
	38	Q	9.3	14.6	10.8	16.1	11.5	17.4	13.9	20.9
		P	4.3	7.5	4.5	8.0	4.6	8.5	5.0	9.3
	43	Q	8.4	11.9	9.5	13.3	10.3	14.5	12.5	18.4
		P	4.8	8.0	5.0	8.9	5.1	9.3	5.4	10.4
10HP	27	Q	12.9	17.9	14.5	20.3	15.9	21.7	18.2	26.0
		P	4.3	7.5	4.5	7.5	4.6	8.0	4.8	8.7
	32	Q	12.0	16.8	13.5	18.7	14.5	20.3	17.2	24.3
		P	4.7	8.0	4.9	8.1	4.9	8.8	5.4	9.2
	38	Q	11.2	15.6	12.5	17.3	13.4	18.6	15.9	22.4
		P	5.3	8.5	5.3	8.9	5.4	9.4	5.9	9.9
	43	Q	10.1	12.5	11.3	14.1	12.2	15.4	14.5	19.5
		P	5.8	9.0	5.9	9.7	6.0	10.3	6.4	10.8

*Max. load 90RPS, Min. load 60RPS

Technical Parameters (18-46HP)

Model	GVSM 180NDAS0	GVSM 210NDAS0	GVSM 270NDAS0	GVSM 350NDAS0	GVSM 460NDAS0
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
Reservoir Volume (L)	20		40		
Oil Accumulator Capacity (L)	4		8		
Maximum Cooling Capacity of Unit (kW)	39.5	43.6	56.5	75.6	92.6
Maximum Power of Unit (kW)	16.4	18.5	23.7	31.2	39.2
Noise of Unit dBA@1m	65		67	70	72
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		1-5/8	2-1/8	
Diameter of Liquid Pipe (Inch)	5/8		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/T21363-2018
Evaporating temperature: -7℃ , ambient temperature: 32℃ , return temperature 18℃ .

Performance Parameters(18-46HP)

Model	Ambient Temperature ℃	Cooling Capacity Q (kW) Power Consumption P (kW)	Evaporating Temperature ℃							
			(kW)		-7		-5		0	
			Min	Max	Min	Max	Min	Max	Min	Max
18HP	27	Q	39.9	57.7	39.5	41.9	35.7	44.9	48.8	52.7
		P	10.8	14.7	11.0	15.1	11.1	15.4	11.8	16.2
	32	Q	38.3	55.6	31.4	39.5	33.7	42.5	46.0	49.8
		P	11.8	16.0	12.1	16.4	12.2	16.7	12.7	17.6
	38	Q	36.5	53.1	29.3	36.9	31.4	39.4	37.3	46.5
		P	12.5	17.6	12.5	18.2	13.7	18.5	14.3	19.5
	43	Q	34.5	50.9	27.3	34.4	29.4	36.9	34.9	43.6
		P	14.0	19.4	14.8	19.9	15.0	20.1	15.5	20.9
21HP	27	Q	54.1	41.6	38.0	48.1	40.7	49.5	48.0	57.9
		P	12.4	18.4	12.8	17.0	13.0	17.4	13.8	19.6
	32	Q	52.2	39.2	35.9	45.6	38.5	46.6	45.5	54.9
		P	13.7	19.0	14.0	19.5	14.3	19.9	15.0	20.1
	38	Q	50.9	38.4	33.3	40.5	35.8	43.4	42.3	51.1
		P	15.5	19.9	15.7	20.5	16.0	20.9	16.7	22.1
	43	Q	47.9	34.0	31.1	37.9	33.4	40.6	39.7	47.9
		P	16.8	21.7	17.3	22.3	17.5	22.7	18.3	23.9
27HP	27	Q	69.9	54.0	48.7	59.9	52.2	64.0	61.5	75.1
		P	15.8	21.1	16.1	21.6	16.4	22.0	17.0	23.1
	32	Q	61.4	51.0	45.0	56.5	49.3	60.5	58.2	71.0
		P	17.5	22.1	17.8	22.7	18.1	24.1	18.7	25.2
	38	Q	58.5	47.5	42.7	52.5	45.8	56.1	54.1	66.0
		P	19.8	25.6	20.1	26.3	20.3	26.7	20.9	27.6
	43	Q	55.7	44.1	39.9	49.0	42.8	52.5	50.7	61.7
		P	21.5	28.2	22.1	28.7	22.5	29.1	23.0	30.2
35HP	27	Q	88.9	73.1	69.3	79.9	67.7	85.4	79.9	103.5
		P	20.7	27.9	21.0	28.6	21.2	29.1	21.9	30.5
	32	Q	83.8	69.2	59.8	75.6	64.1	80.6	75.7	94.9
		P	22.7	30.4	23.1	31.2	23.5	31.7	24.0	33.1
	38	Q	78.9	65.4	55.8	70.4	59.7	75.5	70.8	88.5
		P	25.5	32.9	25.8	34.5	26.0	35.1	26.7	36.5
	43	Q	73.7	59.5	52.1	65.9	55.9	70.5	66.3	83.0
		P	27.9	36.6	28.5	37.6	28.5	38.1	29.3	39.5
46HP	27	Q	73.8	98.5	91.9	97.9	97.7	104.5	105.9	133.5
		P	27.9	36.2	28.5	36.3	29.0	36.9	30.3	38.9
	32	Q	69.8	93.5	77.5	92.6	83.0	99.0	97.8	116.1
		P	30.4	39.2	31.0	39.2	31.4	39.9	32.7	41.9
	38	Q	64.6	77.7	73.1	86.2	77.3	92.2	91.2	108.2
		P	33.7	43.1	34.5	43.1	34.7	43.6	35.9	45.7
	43	Q	59.6	73.7	67.5	80.7	70.4	86.5	85.5	101.5
		P	36.6	46.7	37.3	46.6	37.7	47.3	38.9	49.2

*Max. load Fixed Speed +60rps and Min. load Fixed Speed +50rps