DC Inverter Condensing Unit

Medium Temperature

1.5~4HP
Rotary Compressor
Single Compressor
Single Fan

6~10HP
Rotary Compressor
Single Compressor
Dual Fans

Customer Value

- 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

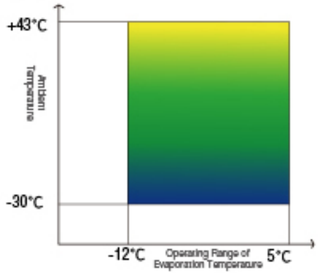
Product Features

- DC inverter compreesor 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

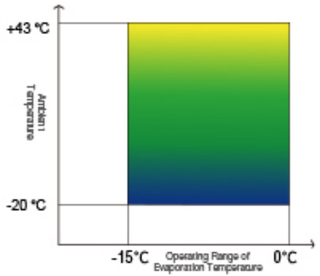
* All comparisons are based on the product performances of last generation.

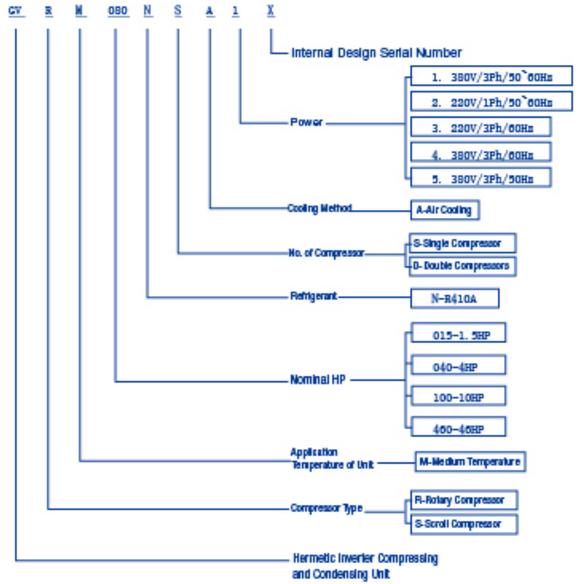
Operation Range and Naming Rule

1.5HP~10HP



18HP~46HP





Technical Parameters (1.5-10HP)

Model	GVRM015NSA2A	GVRM025NSA2A	GVRM035NSA2A	GVRM040NSA1A	GVRM060NSA1A	GVRM080NSA1A	GVRM100NSA1A
Refrigerant				R410A			
Supply Voltage of Unit		220V/1Ph/50~60Hz			380V/3Ph/50~60Hz		
Compressor Model	SNB140FCAMC	TNB220FFEMC-L	TNB306FPPMC-L	MNB36FABMC	MNB42FFDMC-L	LNB53FCAMC	LNB65F
Type of Refrigerant Oil		FV50S			FV50S		
Compressor Oil Charge (L)	0.35	0.72	1.07	1.1	1.4	1.7	2.3
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/T21363-2008

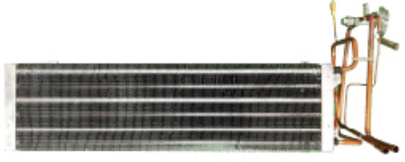
Performance Parameters (1.5-10HP)

Model No.	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	4.3	3.1	4.8	3.4	5.1	4.1	6.0
		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	3.6	2.7	3.9	3.3	4.9
		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	5.2	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	3.2	1.7	3.1	1.8	3.3
	38	Q	4.1	6.4	4.6	7.0	4.9	7.6	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	6.3	4.6	6.7	5.6	8.4
		P	2.0	3.5	2.0	3.6	2.1	3.6	2.2	4.1
3.5HP	27	Q	6.2	8.8	6.9	9.8	7.5	10.6	8.9	12.5
		P	2.1	3.5	2.1	3.7	2.2	3.6	2.3	4.1
	32	Q	5.9	8.3	6.6	9.3	7.1	10.1	8.5	11.9
		P	2.3	3.9	2.4	4.2	2.4	4.3	2.5	4.5
	38	Q	5.5	7.7	6.1	8.6	6.6	9.3	7.9	11.1
		P	2.6	4.3	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	4.8	2.9	5.0	3.1	5.5
4HP	27	Q	7.2	10.6	8.0	11.8	8.6	12.7	10.1	14.9
		P	2.4	4.0	2.5	4.3	2.6	4.3	2.7	5.0
	32	Q	6.5	9.8	7.3	10.9	7.8	11.6	9.2	13.5
		P	2.7	4.9	2.7	5.1	2.8	5.3	2.9	5.7
	38	Q	5.8	8.7	6.4	9.6	6.9	10.3	8.1	12.0
		P	2.9	5.5	3.0	5.6	3.1	5.7	3.2	6.1
	43	Q	4.9	6.5	5.5	7.5	5.9	8.0	7.0	9.4
		P	3.2	5.8	3.2	6.3	3.4	6.3	3.6	6.8
6HP	27	Q	9.1	13.6	10.2	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	12.2	18.4
		P	3.2	5.5	3.2	5.5	3.3	5.7	3.5	6.1
	38	Q	7.8	11.9	8.9	13.3	9.6	14.2	11.5	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	12.3	18.7	13.2	20.1	15.9	24.1
		P	3.6	6.7	3.8	6.9	3.9	7.3	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	7.3	4.1	7.6	4.3	7.9	4.5	8.5
	38	Q	9.3	14.6	10.6	16.1	11.5	17.4	13.9	20.9
		P	4.3	7.5	4.5	8.3	4.6	8.5	5.0	9.3
	43	Q	8.4	11.6	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	14.9	20.3	15.9	21.7	18.2	26.0
		P	4.3	7.5	4.5	7.8	4.6	8.3	4.8	8.7
	32	Q	12.0	16.6	13.5	18.7	14.5	20.3	17.2	24.3
		P	4.7	8.0	4.9	8.1	4.9	8.9	5.4	9.3
	38	Q	11.3	15.6	12.5	17.2	13.4	18.6	15.9	22.4
		P	5.3	8.5	5.9	8.9	5.4	9.4	5.9	9.8
	43	Q	10.1	12.5	11.2	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	10.9

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

Proprietary Accessories

Frost-free Evaporator

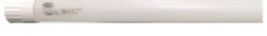


- The food is safe because the temperature fluctuates little when defrosting.

IQ Motor

- Low energy consumption (about 40% lower than Q motor), and long service life (>50,000h)

Carrier LED light



- Professional R & D, suitable for low temperature environment, and low failure rate.