

Fantasy Series

R410A LT DC Inverter Condensing Units



2.5~5HP



7~10HP

Product Features

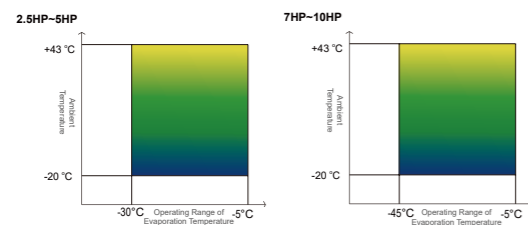
- Freezing and refrigerating integrated application, easy to store renovation and maintenance
- DC variable frequency compressor, wide adjustable range, high energy efficiency, low operating cost
- Frequency conversion fan, low operating cost.
- Compact structure, small occupied area
- Inner frame with sound insulation cotton, low noise
- R410A refrigerant, low piping installation cost
- 30% energy saving, ~4dBA noise reduction compared with fixed frequency units

Operating Range

Model	Refrigerant	Minimum Evaporating Temperature	Nominal Condition Cooling Capacity @60rps(kW)*	COP	Maximum Cooling Capacity
2.5HP	R410A	-30	2.1	1.2	4.2
3.5HP			2.4	1.3	5.4
5HP			3.5	1.3	6.9
7HP			5.5	1.3	9.2
10HP			9.0	1.5	14.6

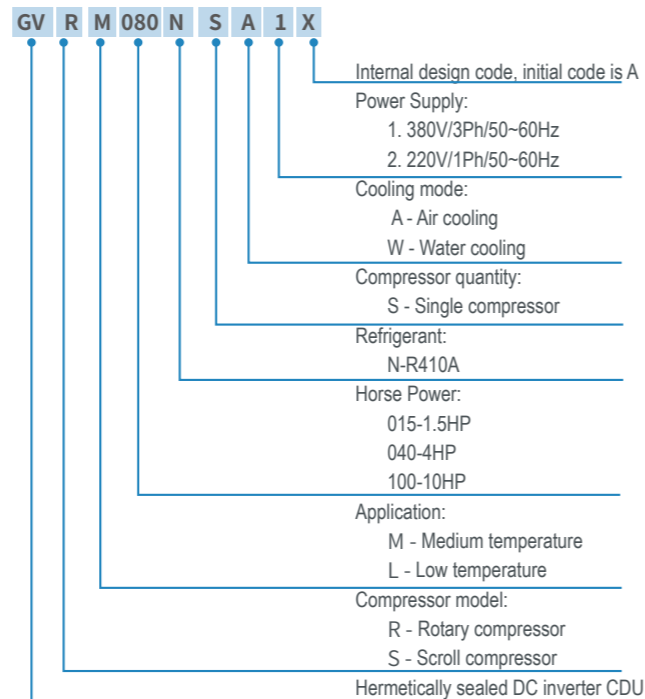
* The working condition is based on the ambient temperature of 32°C and the evaporation temperature of -30°C. Rated working conditions is 60Hz.

Operation Range and Naming Rule



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

Naming Rule



Application Scenarios



Medium / small cold storage
Hotel cold storage, chain restaurant, front warehouse, food cold storage with small and medium-sized low-temperature cold storage

Room temperature: -35° C ~ +5° C



Supermarket
Provide cooling capacity to remote freezer

Food temperature: -35° C ~ +5° C

Performance Parameters - Low Temperature Unit

Model	GVRL025NSA2A	GVRL035NSA2A	GVRL050NSA2B	GVSL070NSA1B	GVSL100NSA1B
Number of Horse Power	2.5HP	3.5HP	5.0HP	7.0HP	10HP
Refrigerant	R410A				
Supply Voltage of Unit	220V/1PH/50~60Hz			380V/3PH/50~60Hz	
Type of Refrigerant Oil	a68HES-H			MEL32R	
Compressor Oil Charge (L)	1.65			2.3	3
Operating Frequency Range (Hz)	30~100		30~90	30~85	30~100
Minimum Evaporation Temperature (° C)	-30			-45	
Number of Fan	1			2	
Diameter of Fan (mm)	500				
Fan Speed Range (rpm)	300~850				
Maximum Air Volume (m³/h)	4030			7060	
Reservoir Volume (L)	4.5			8.8	
Evaporating Temperature Range	-30°C~-5°C			-45°C~-5°C	
Unit rated cooling Capacity (kW)	3.4	4.1	5.4	8.9	13
Unit rated power (kW)	2.1	2.5	3.5	5	7.5
Maximum Cooling Capacity of Unit (kW)	5.5	6.9	8.8	12	18.4
Maximum Power of Unit (kW)	3.8	4.7	7.1	7.2	13.3
Noise of Unit dBA@1m	54	54	54	57	60
Unit starting current (A)	--				
Unit rated operating current (A)	10	12	16	10	13
Maximum Running Current (A)	25	30	33	25	30
Diameter of Suction Pipe (Inch)	1/2	5/8		3/4	1-1/8
Diameter of Liquid Pipe (Inch)	3/8			1/2	
Dimensions (L x W x H) (mm)	1164x470x817			1164x470x1373	
Weight (kg)	112	112	112	172	186

Cooling capacity power testing conditions: National standard medium temperature working conditions: GB/T21363-2008
Evaporating temperature: -23° C, ambient temperature: 32° C, return temperature 5° C.

Model Selection Table

Model	Ambient Temperature (° C)	Capacity Q Power P (KW)	Evaporating Temp ° C											
			-5		-10		-15		-20		-25		-30	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
2.5HP	27	Q	5.3	10.7	4.5	9.1	3.8	7.7	3.2	6.4	2.6	5.3	2.1	4.4
		P	1.7	4.2	1.7	4.0	1.6	3.8	1.6	3.6	1.6	3.5	1.6	3.3
	32	Q	5.1	10.2	4.3	8.7	3.6	7.3	3.0	6.2	2.5	5.1	2.1	4.2
		P	1.9	4.6	1.8	4.3	1.8	4.1	1.8	4.0	1.7	3.8	1.7	3.6
		LST	19.3	19.8	16.5	17.3	13.9	15.1	11.5	13.0	9.4	11.2	7.4	9.6
	38	Q	4.8	9.2	4.1	8.0	3.5	6.9	2.9	5.8	2.4	4.8	2.0	3.9
		P	2.1	4.7	2.1	4.6	2.0	4.6	2.0	4.4	1.9	4.2	1.9	4.0
		LST	25.7	28.3	22.9	26.1	20.3	24.1	17.9	22.0	15.7	20.1	13.7	18.4
	43	Q	4.6	8.3	3.9	7.2	3.3	6.3	2.7	5.4	2.3	4.6	1.9	3.7
P		2.3	4.6	2.3	4.6	2.2	4.6	2.2	4.6	2.1	4.5	2.1	4.3	
LST		26.5	30.2	23.7	27.9	21.0	25.9	18.5	24.4	16.3	22.9	14.3	21.2	
3.5HP	27	Q	6.0	12.7	5.1	11.0	4.3	9.4	3.6	8.0	3.0	6.7	2.5	5.6
		P	1.9	5.6	1.9	5.2	1.8	4.8	1.8	4.5	1.7	4.1	1.7	3.8
	32	Q	5.8	12.2	4.9	10.5	4.2	9.0	3.5	7.7	2.9	6.5	2.4	5.4
		P	2.1	6.1	2.1	5.7	2.0	5.2	2.0	4.9	1.9	4.5	1.9	4.2
		LST	26.3	32.7	21.0	26.9	16.5	21.9	12.9	17.7	10.1	14.4	8.1	11.9
	38	Q	5.5	10.6	5.1	9.4	4.7	8.3	4.0	7.2	3.3	6.2	3.0	5.2
		P	2.4	5.7	2.4	5.6	2.3	5.4	2.3	5.3	2.2	5.0	2.2	4.7
		LST	30.8	34.7	25.5	29.4	21.0	25.0	17.3	21.6	14.5	18.8	12.5	16.3
	43	Q	5.2	9.3	4.5	8.6	3.8	7.7	3.2	6.8	2.6	5.9	2.2	4.9
P		2.6	5.5	2.6	5.7	2.5	5.6	2.4	5.6	2.3	5.4	2.3	5.1	
LST		34.8	37.7	29.5	32.7	25.0	28.4	21.3	25.3	18.4	22.7	16.4	20.2	
5HP	27	Q	8.7	14.9	7.4	13.5	6.3	12.0	5.3	10.2	4.4	8.6	3.6	7.2
		P	3.1	8.2	2.9	8.3	2.8	7.8	2.7	6.9	2.5	6.1	2.4	5.3
	32	Q	8.4	13.7	7.1	12.5	6.0	11.3	5.1	9.8	4.2	8.2	3.5	6.9
		P	3.5	8.2	3.4	8.3	3.2	8.2	3.0	7.6	2.9	6.7	2.7	5.9
		LST	27.9	37.6	23.2	33.8	19.0	30.4	15.3	26.4	12.0	22.4	9.3	18.8
	38	Q	7.9	12.0	6.7	10.9	5.7	9.9	4.8	8.9	4.0	7.8	3.3	6.6
		P	4.1	7.9	3.9	7.8	3.7	8.0	3.5	7.9	3.3	7.6	3.1	6.7
		LST	31.5	40.5	27.0	36.8	22.9	34.1	19.4	31.5	16.3	29.0	13.8	25.6
	43	Q	7.5	10.5	6.4	9.5	5.4	8.5	4.6	7.7	3.8	6.9	3.1	6.3
P		4.6	7.3	4.3	7.3	4.1	7.3	3.9	7.3	3.7	7.3	3.5	7.4	
LST		35.1	42.4	30.7	39.0	26.8	36.0	23.4	33.8	20.5	32.3	18.1	31.9	
7HP	27	Q	13.7	23.0	11.7	19.7	9.9	16.7	8.3	14.0	6.9	11.6	5.7	9.6
		P	4.4	8.5	4.2	7.9	4.0	7.3	3.8	6.8	3.7	6.3	3.6	6.0
	32	Q	13.2	21.9	11.3	18.8	9.5	16.0	8.0	13.4	6.7	11.1	5.5	9.2
		P	5.0	9.3	4.7	8.6	4.5	8.0	4.3	7.5	4.2	7.0	4.1	6.6
		LST	26.2	30.0	20.9	24.3	16.3	19.2	12.2	14.7	8.7	10.7	5.7	7.4
	38	Q	12.5	20.6	10.7	17.7	9.1	15.0	7.6	12.7	6.4	10.5	5.3	8.7
		P	5.6	10.2	5.4	9.5	5.1	8.9	5.0	8.3	4.8	7.9	4.8	7.5
		LST	30.3	34.2	25.0	28.4	20.2	23.3	16.1	18.7	12.5	14.7	9.6	11.3
	43	Q	11.9	19.5	10.2	16.8	8.7	14.3	7.3	12.0	6.1	10.0	5.0	8.2
P		6.2	11.0	6.0	10.3	5.7	9.7	5.6	9.1	5.5	8.6	5.4	8.2	
LST		33.9	37.9	28.6	32.2	23.8	27.0	19.7	22.4	16.1	18.4	13.1	14.9	
10HP	27	Q	20.8	31.9	18.0	28.0	15.4	24.3	13.1	20.8	11.1	17.8	9.3	15.0
		P	7.1	16.6	6.7	15.2	6.3	13.9	6.0	12.8	5.7	11.8	5.4	10.9
	32	Q	20.1	30.7	17.4	27.0	14.9	23.4	12.7	20.2	10.7	17.2	9.0	14.6
		P	7.9	17.9	7.4	16.4	7.1	15.1	6.7	14.0	6.4	12.9	6.1	12.0
		LST	37.9	42.3	30.1	34.7	23.3	28.1	17.3	22.4	12.3	17.6	8.2	13.7
	38	Q	19.1	25.2	16.6	22.5	14.3	20.6	12.2	19.0	10.3	16.5	8.6	14.0
		P	8.9	13.8	8.4	13.6	8.0	14.0	7.6	15.0	7.2	14.3	6.9	13.4
		LST	38.3	44.3	31.3	38.2	25.2	34.1	20.0	31.3	15.8	27.9	12.4	24.8
	43	Q	15.2	20.1	15.9	18.7	13.7	18.2	11.7	17.8	9.9	15.9	8.3	13.5
P		7.8	11.0	9.2	11.5	8.8	13.1	8.4	15.5	8.0	15.6	7.7	14.6	
LST		35.9	37.9	29.5	33.4	24.1	32.4	19.5	32.9	15.8	31.2	13.1	28.8	

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