

R410A Water Cooling MT/LT DC Inverter

Condensing Units



R410A DC Inverter Compressor
Electric system: 220V/1PH/50Hz (60Hz)



Customer Value

- Mute
- Low energy consumption (energy saving - 25% *)
- Stable food temperature
- Low downtime

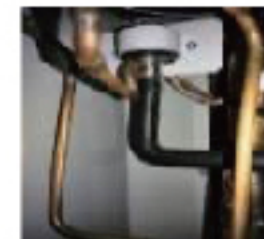
Product Features

- Water-cooled, no indoor cooling, silent
- Compact design, height less than 300mm, highly flexible
- No need to place in machine room, with high flexibility to place on any where
- Speed regulation range 30-80rpm
- Adopt DC inverter compressor, high efficiency and energy saving
- Carel mature controller, with high reliability, stable food temperature

Product Design Advantages



Horizontal rotary inverter
compressor, energy
saving up to 25%



Low temperature spray
design to improve
operation reliability

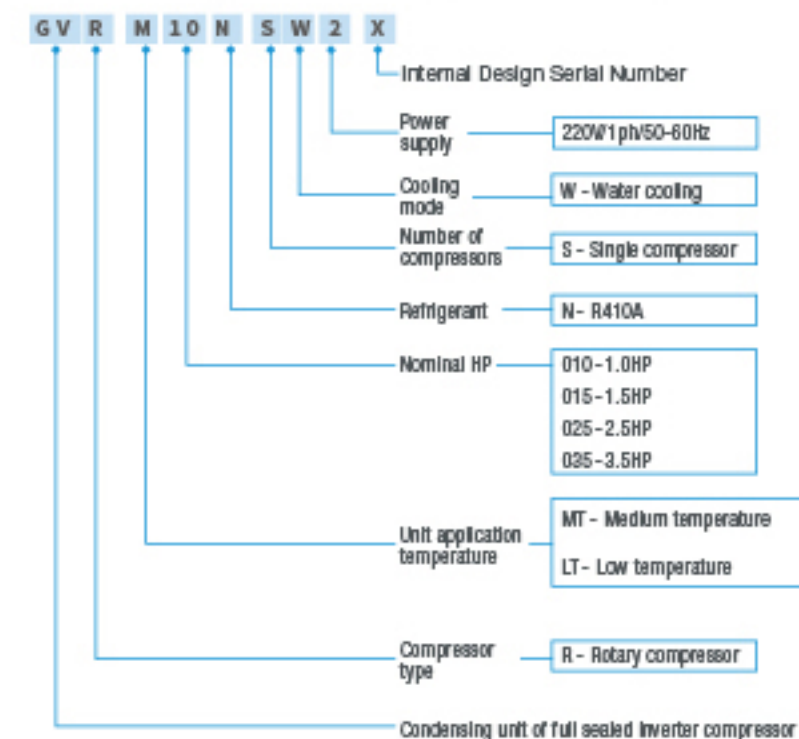


Water cooled brazed
plate with high heat
exchange efficiency



Mature
controller for
refrigeration

Water Cooling Inverter Compressor Unit Naming Rule



Application Scenarios

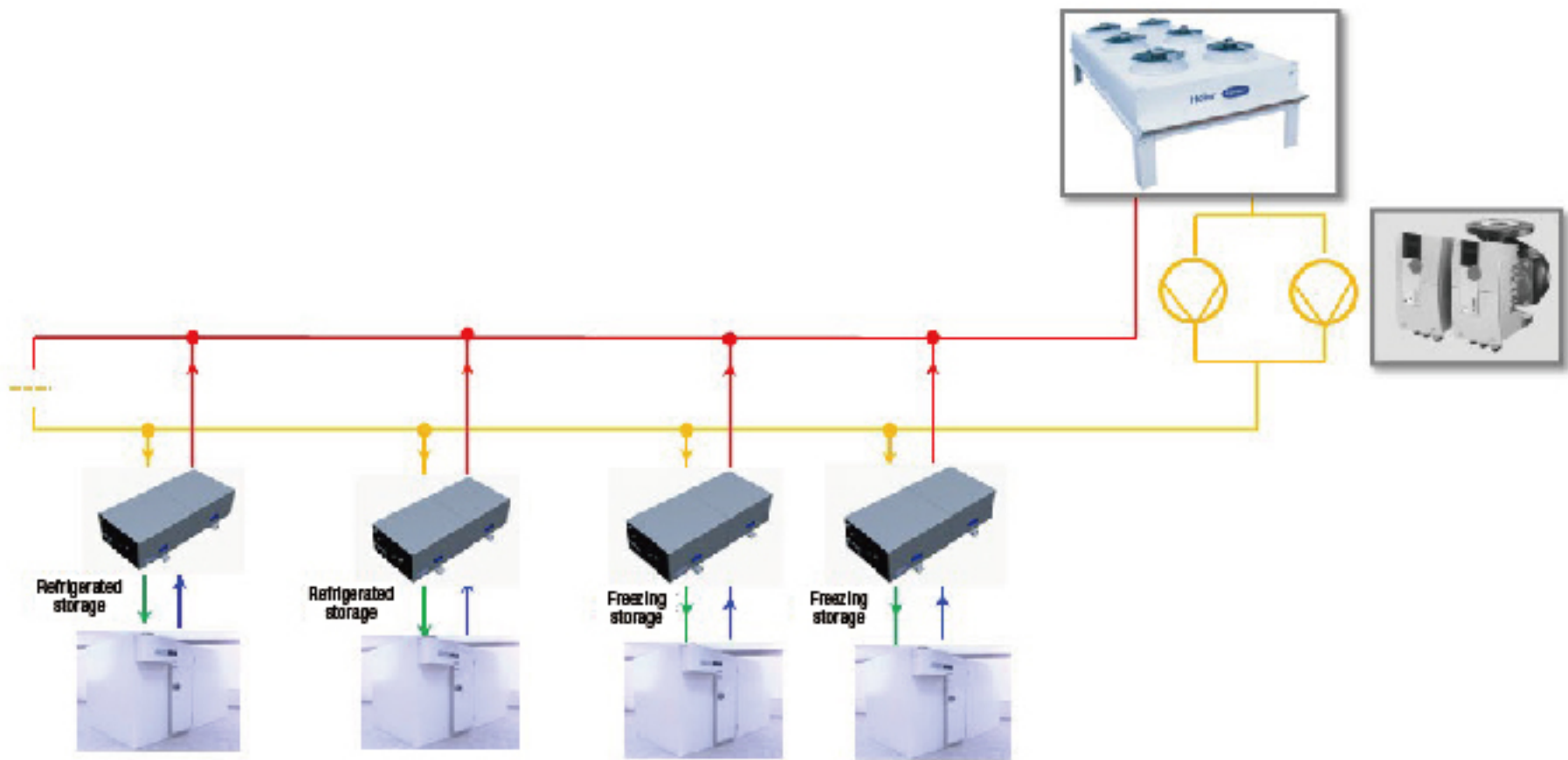


Catering chain
Chain restaurants with small medium / low
temperature cold storage
Room temperature: -30°C ~ +13°C
Ambient temperature: -20°C ~ +43°C
Storage capacity: <5t



Hotel cold storage
Chain restaurants with small and medium
temperatures cold storage
Room temperature: -30°C ~ +13°C
Ambient temperature: -20°C ~ +43°C
Storage capacity: <5t

Brief Introduction of Water Cooling Inverter Compressor Unit

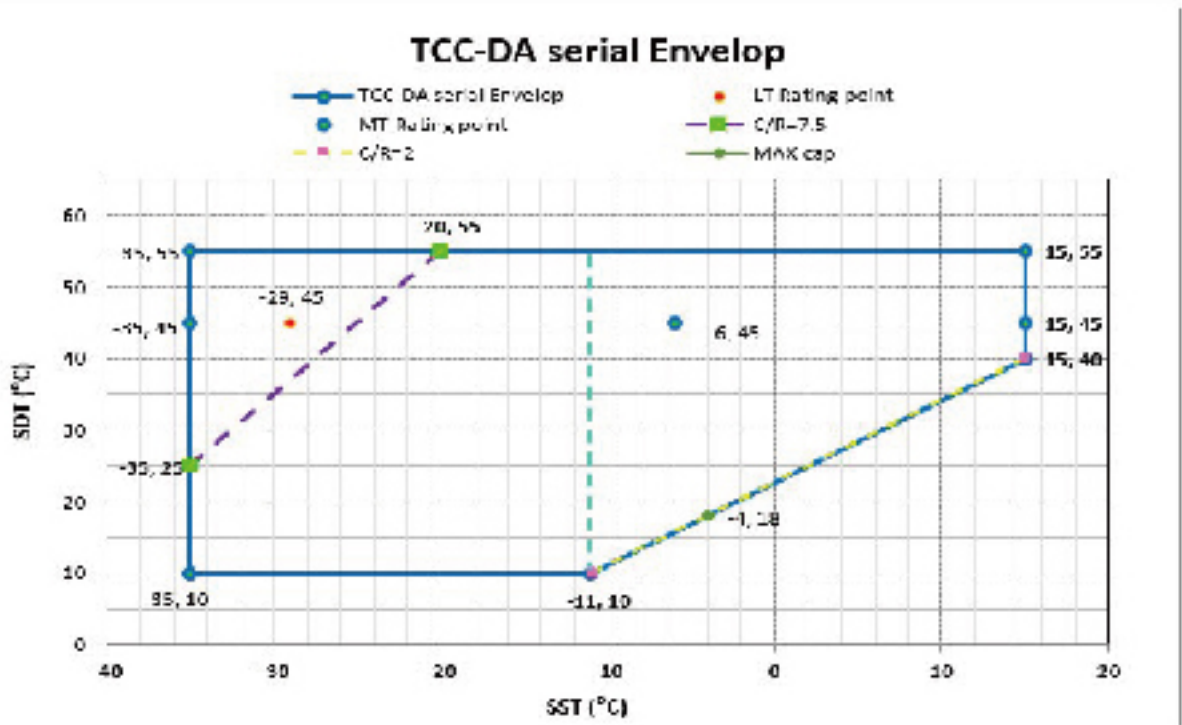


System advantages:
The refrigeration part of the main machine adopts compressed condensed water cooling inverter unit, which has a small footprint.
The frozen part does not need to choose a place with good ventilation, and the equipment can be placed flexibly.
The refrigeration of each equipment is independently controlled, and the failure of a single equipment does not affect the operation of the system using environmentally friendly refrigerant R410A.
Easy to install.

Application Scope of Water Cooling Inverter Compressor Unit

Working Condition	MT/LT
Refrigerant	R410A
Evaporation Temperature °C	-35 ~ +15

	CDU Name	CDU Model
MT	MT 1HP	GVRM10NSW2X
	MT 1.5HP	GVRM15NSW2X
	MT 2.5HP	GVRM25NSW2X
	MT 3.5HP	GVRM35NSW2X
LT	LT 1HP	GVRM10NSW2X
	LT 1.5HP	GVRM15NSW2X
	LT 2.5HP	GVRM25NSW2X
	LT 3.5HP	GVRM35NSW2X



Water Cooling - MT Technical Parameters

Model		GVRM10NSW2X	GVRM15NSW2X	GVRM25NSW2X	GVRM35NSW2X
Refrigerant		R410A			
Ambient Temperature Condition		25°C, 60%			
Rated Running Condition		Evaporation temperature: - 6°C, condensation temperature: 48 °C, subcooling degree: 2K, superheating degree: 10K, frequency: 60rps			
Cooling Capacity	kW	1.69	2.33	4.09	6.14
Plate Replacement Model		B26x 8	B26x12	B26x18	B26x24
Plate Water Exchange Side Interface Size ¹		Stainless steel, Internal thread 3/4"			
Water Flow	m³/h	0.48	0.76	1.141	1.929
Noise	dB(A)	<52	<52	<52	<52
Maximum Running Current	A	8.5	9.2	11.1	15.6
Power Type		220V - 1ph - 50/60Hz			
Compressor	Type	Silent, efficient, fully enclosed rotary compressor			
	Model	DA91A1FJH-10A	DA130A1FJH-10A	DA220A1FJH-10B	DA330A3FJH-10C
	Quantity	1	1	1	1
	Self-contained Oil	0.4	0.4	0.62	0.9
Speed Range, rps		30~80	30~80	30~80	30~80
Reservoir	Type	Vertical		Horizontal	
	Volume L	1.8	1.8	3.3	4
Overall Dimensions	mm	1100*500*300			
Packing Dimensions	mm	1203*640*440			
Weight	kg	62	63	63.8	65

¹ It is recommended to select water connector (006080040r) on the plate water exchange side. CDU shall be connected at the external thread side of water connector, and P/R water pipe shall be connected at PP-R side after hot melting.

Water Cooling - LT Technical Parameters

Model		GVRL10NSW2X	GVRL15NSW2X	GVRL25NSW2X	GVRL35NSW2X
Refrigerant		R410A			
Ambient Temperature Condition		25°C, 60%			
Rated Running Condition		Evaporation temperature: - 29 °C, condensation temperature: 48 °C, subcooling degree: 2K, superheating degree: 10K, frequency: 60rps			
Cooling Capacity	kW	0.5	0.72	1.26	1.89
Plate Replacement Model		B26x 8	B26x12	B26x18	B26x24
Plate Water Exchange Side Interface Size ¹		Stainless steel, Internal thread 3/4"			
Water Flow	m³/h	0.48	0.76	1.141	1.929
Noise	dB(A)	<52	<52	<52	<52
Maximum Running Current	A	8.1	8.7	10.8	15.1
Power Type		220V - 1ph - 50/60Hz			
Compressor	Type	Silent, efficient, fully enclosed rotary compressor			
	Model	DA91A1FJH-10A	DA130A1FJH-10A	DA220A1FJH-10B	DA330A3FJH-10C
	Quantity	1	1	1	1
	Self-contained Oil	0.4	0.4	0.62	0.9
Speed range, rps		30~80	30~80	30~80	30~80
Reservoir	Type	Vertical		Horizontal	
	Volume L	1.8	1.8	3.3	4
Overall Dimensions	mm	1100*500*300			
Packing Dimensions	mm	1203*640*440			
Weight	kg	62	63	63.8	65

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