

Frost-free Convenience Store

Frost-free Family Benefits

- 15% Shelf life extension***
Stable storage temperature to reduce cargo damage ($\pm 0.2^{\circ}\text{C}$)
- 30% Slower of nutrition loss***
- 15% Energy saving****
(Compared with normal configuration, inverter/Cabinets)
- 15% Cooling load reduction****
- Patented design with revolutionary innovation**



Frost-free Walk-in Cooler



Frost-free Crown Case

Frost-free Lunch Case

- Freshness and Nutrition Sales and ROI**
- Operational Cost Food Waste**

Convenience Store Application at a Glance

Technical Data Cabinets

Type	Product	Model	Dimension/mm (L/D/H)	Description	Temperature $^{\circ}\text{C}$
Frost-free Cabinets	Frost-free Lunch Case	CLCR855FA	855 x 750 x 1910	Frost-free 3-feet Lunch Case	-1~7
		CLCR855F	855 x 750 x 1910	Frost-free 6-feet Lunch Case	1~10
		CLCR1710FA	1710 x 750 x 1910	Frost-free 3-feet Lunch Case	-1~7
		CLCR1710F	1710 x 750 x 1910	Frost-free 6-feet Lunch Case	1~10
	Frost-free Crown Case	CCSR1410F	1413 x 1067 x 1447	Frost-free Crown Case	1~10
	Frost-free Walk-in Cooler	CWC4-22F	3000 x 2200 x 2310	Frost-free Walk-in Cooler (2.2m wide, 4 doors, 10 columns for each door)	1~10
		CWC4-18F	3000 x 1800 x 2310	Frost-free Walk-in Cooler (1.8m wide, 4 doors, 10 columns for each door)	1~10

Systems

Type	Product	Model	Dimension/mm (L/W/H)	Description
Frost-free CDU	Frost-free MT Inverter Condensing Unit	GVRM015NSA2F	1064 x 424 x 802	Frost-free MT Inverter Condensing Unit (1.5HP)
		GVRM025NSA2F	1064 x 424 x 802	Frost-free MT Inverter Condensing Unit (2.5HP)
		GVRM035NSA2F	1064 x 424 x 802	Frost-free MT Inverter Condensing Unit (3.5HP)
		GVRM040NSA1F	1064 x 424 x 802	Frost-free MT Inverter Condensing Unit (4HP)
		GVRM060NSA1F	1064 x 448 x 1358	Frost-free MT Inverter Condensing Unit (6HP)
		GVRM080NSA1F	1064 x 448 x 1358	Frost-free MT Inverter Condensing Unit (8HP)
		GVRM100NSA1F	1064 x 448 x 1358	Frost-free MT Inverter Condensing Unit (10HP)

Technical Parameters (1.5-10HP)

Model	GVRM015NSA2F	GVRM025NSA2F	GVRM035NSA2F	GVRM040NSA1F	GVRM060NSA1F	GVRM080NSA1F	GVRM100NSA1F
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 dB(A)@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)	1064 x 424 x 802			1064 x 448 x 1358			
Weight (kg)	93	95	97	97	142	146	150

Cooling capacity power testing conditions: National standard medium temperature working conditions: GB/T21363-2008



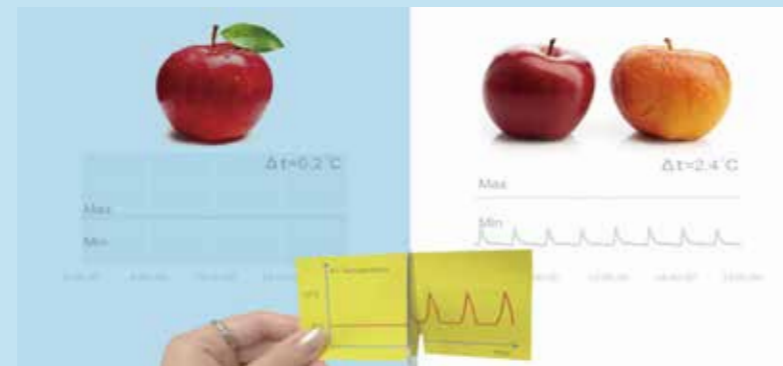
Normal Cabinets:

Frost/Ice accumulates on the evaporator, obstructs airflow and requires defrosting.



Frost-free Cabinets:

Only water droplets on the evaporator, no need for defrosting.



Frost-free Cabinets

Wave= $\pm 0.2^{\circ}\text{C}$

Normal Cabinets

Wave=2-5 $^{\circ}\text{C}$

Frost-free MT Inverter Condensing Unit



1.5~4HP Rotary Compressor Single Compressor Single Fan



6~10HP Rotary Compressor Single Compressor Dual Fans



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	4.2	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	3.2	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	4.8	
	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	3.8	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	3.8	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	2.6	4.5
	38	Q	5.5	7.7	6.1	8.6	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	4.8	2.9	5.0	3.1	5.5	
4HP	27	Q	7.2	10.8	8.0	11.9	8.6	12.7	10.1	14.8
		P	2.4	4.6	2.5	4.8	2.6	4.9	2.7	5.3
	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	3.3	6.3	3.4	6.3	3.6	6.6	
6HP	27	Q	9.1	13.6	10.2	15.2	11.0	16.4	13.3	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	9.8	14.3	10.4	15.4	12.5	18.4
		P	3.2	5.3	3.3	5.5	3.3	5.7	3.5	6.1
	38	Q	7.8	11.9	8.9	13.2	9.6	14.2	11.5	17.0
		P	3.5	5.6	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	12.2	18.7	13.2	20.1	15.9	24.1
		P	3.6	6.7	3.8	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	7.2	4.1	7.6	4.2	7.8	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	8.2	4.6	8.5	5.0	9.3
43	Q	8.4	11.8	9.5	13.3	10.3	14.5	12.6	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	14.3	20.2	15.3	21.7	18.2	26.0
		P	4.3	7.5	4.5	7.6	4.6	8.0	4.8	8.7
	32	Q	12.0	16.6	13.5	18.7	14.5	20.2	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	17.2	13.4	18.6	15.9	22.4
		P	5.3	8.5	5.3	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	10.8	

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

* According to the results of controlled experiments on food storage performance in the Haier Carrier's frost-free cabinets issued by College of Food Science and Technology of Shanghai Ocean University

** All measured value based on Carrier cases and tests

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