

WM Series

Monoblock Unit





SAUVERAIN



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1. Product Description:

The monoblock unit developed by our company is to design compressor, condenser, evaporator, valves and control systems needed for refrigeration system of refrigeration storage as a whole compact structure, which can be directly used for refrigeration of cold room.

- 1 The product structure adopts wall hanging type, and the unit is installed on the side panel of the storehouse body.
- 2 There are two types of units, medium temperature and low temperature. Medium temperature unit mainly meets the use of cold room at $0^{\circ}\text{C} \sim 10^{\circ}\text{C}$, such as fresh storage. The low temperature unit mainly meets the use of cold storage at $-15^{\circ}\text{C} \sim -18^{\circ}\text{C}$ or $-18^{\circ}\text{C} \sim -23^{\circ}\text{C}$, such as frozen storage.
- 3 The compressors adopts SECOP piston compressor (below 1.5HP) and Emerson scroll compressor (above 2HP).
- 4 With hot gas bypass defrosting, the defrosting effect is good and the warehouse temperature rises slightly.
- 5 It has the function of recovery and utilization of condensate water, which can effectively reduce condensation temperature and improve unit operation efficiency.
- 6 Fully automatic intelligent control, with warehouse temperature setting and control, defrost setting and control, system operation protection functions.
- 7 Very simple installation method, only need to open a hole on the board of the cold room, inset the unit and switch on the power supply can be used.

2. Model Description:

WM 075 M Y S

Voltage, S: 1P / 220V / 50Hz, T: 3P / 380V / 50Hz

Refrigerant, Y: R404A

Applicable temperature code, M: MT, L: LT (-18°C), K: LT (-23°C)

Nominal Horsepower of Compressor (HP $\times 100$)

Product Series, WM: Wall mounted monoblock unit



3. Technical data :

3.1. Medium Temp. Unit :

Model		WM075MYS		WM100MYS		WM150MYS		WM200MYT		WM250MYT		WM300MYT	
Power Supply		1P / 220V / 50HZ						3P / 380V / 50HZ					
Apply Temp.		0°C ~ 10°C											
Power (kw)		0.86		1.2		1.72		1.9		2.5		2.9	
Current (A)		4.8		6.9		9.1		4.1		6.2		6.4	
Max. Current (A)		6.5		8.9		12.5		6.9		7.8		9.8	
Refrigerant		R404A		R404A		R404A		R404A		R404A		R404A	
Defrost		Hot Gas		Hot Gas		Hot Gas		Hot Gas		Hot Gas		Hot Gas	
Weight (kg)		56		79		86		108		127		131	
Ref.Capacity and Cold Storage Volume													
Tc°C	Ta°C	W	m³	W	m³	W	m³	W	m³	W	m³	W	m³
10°C	25	1950	17	2870	36	3980	43	5180	68	6380	85	7650	100
	32	1780	14	2610	32	3580	38	4670	54	5820	75	6990	90
	43	1460	10	2110	18	2800	30	3590	42	4650	54	5570	74
5°C	25	1690	13	2460	23	3430	35	4430	50	5470	70	6570	85
	32	1550	10	2240	20	3080	31	3980	43	4980	62	5980	75
	43	1260	8	1810	15	2410	23	3020	32	3940	40	4720	55
0°C	25	1460	10	2100	18	2930	30	3760	43	4670	55	5610	70
	32	1330	8	1910	15	2630	25	3360	40	4240	50	5090	62
	43	1090	6	1540	12	2060	18	2500	24	3320	34	3980	40

Remark: 1) In the table, Tc is the warehouse temp. and Ta is the environment temp.

2) The storage volume is based on polyurethane with 100 mm Insulation board, Purchase Temp. is 25 C, the daily turnover is 10%, and the working time of the compressor is 18 hours every day.

3.1. Low Temp. Unit :

Model		WM100LYS		WM150LYS		WM250LYT		WM300LYT		WM400LYT	
Power Supply		1P / 220V / 50Hz						3P / 380V / 50Hz			
Apply Temp.		-15°C ~ -20°C						-15°C ~ -18°C			
Power (kW)		0.82		1.32		1.92		2.57		2.97	
Current (A)		4.5		7.4		4.4		5.8		6.6	
Max. Current (A)		6.1		10.1		6.6		8.5		9.3	
Refrigerant		R404A		R404A		R404A		R404A		R404A	
Defrost		Hot Gas		Hot Gas		Hot Gas		Hot Gas		Hot Gas	
Weight (kg)		62		84		110		129		137	
Ref. Capacity and Cold Storage Volume											
Tc°C	Ta°C	W	m³	W	m³	W	m³	W	m³	W	m³
-15°C	25	1060	6	1570	12	2240	18	2920	28	3900	40
	32	950	5	1400	9	2000	15	2610	24	3510	32
	43	750	3.5	1080	6	/	/	/	/	/	/
-18°C	25	960	5.5	1420	10	2040	15	2650	23	3560	34
	32	870	4.5	1260	8	1820	14	2370	20	3200	28
	43	680	3.5	950	5	/	/	/	/	/	/
-20°C	25	870	4	1280	8.5	/	/	/	/	/	/
	32	780	3.5	1140	7	/	/	/	/	/	/
	43	610	3	860	4	/	/	/	/	/	/

Remark: 1) In the table, Tc is the warehouse temp. and Ta is the environment temp.

2) The storage volume is based on polyurethane with 100 mm Insulation board, Purchase Temp. is 25 C, the daily turnover is 10%, and the working time of the compressor is 18 hours every day.



Model		WM200KYT		WM300KYT		WM350KYT	
Power Supply		3P / 380V / 50Hz					
Apply Temp.		-18℃ ～ -23℃					
Power (kW)		1.9		2.6		3.0	
Current (A)		3.4		3.8		4.6	
Max. Current (A)		5.7		6.7		7.5	
Refrigerant		R404A		R404A		R404A	
Defrost		Hot Gas		Hot Gas		Hot Gas	
Weight (kg)		108		124		134	
Ref. Capacity and Cold Storage Volume							
Tc℃	Ta℃	W	m³	W	m³	W	m³
-18℃	25	1820	15	2620	26	3180	36
	32	1620	12	2290	22	2920	32
	43	1210	7.5	1690	10	2340	22
-20℃	25	1710	13	2460	23	2970	32
	32	1520	11	2140	18	2730	26
	43	1130	9	1580	13	2230	24
-23℃	25	1550	10	2220	18	2660	28
	32	1380	9	1920	15	2450	23
	43	1000	8	1400	11	1990	20

Remark: 1) In the table, Tc is the warehouse temp. and Ta is the environment temp.

2) The storage volume is based on polyurethane with 100 mm Insulation board, Purchase Temp. is 25 C, the daily turnover is 10%, and the working time of the compressor is 18 hours every day.

4. Outline & Installation Dimension :

Model	A	B	C	D	E	F	M	N
WM075MYS	730	816	450	305	355	402	415	405
WM100MYS	730	816	710	305	355	662	675	405
WM150MYS	730	816	710	305	355	662	675	405
WM200MYT	915	960	730	355	445	662	695	505
WM250MYT	915	960	930	355	445	862	895	505
WM300MYT	915	960	930	355	445	862	895	505
WM100LYS	730	816	450	305	355	402	415	405
WM150LYS	730	816	710	305	355	662	675	405
WM250LYT	915	960	730	355	445	662	695	505
WM300LYT	915	960	930	355	445	862	895	505
WM400LYT	915	960	930	355	445	862	895	505
WM200KYT	915	960	730	355	445	662	695	505
WM300KYT	915	960	930	355	445	862	895	505
WM350KYT	915	960	930	355	445	862	895	505



4. Outline & Installation Dimensions

