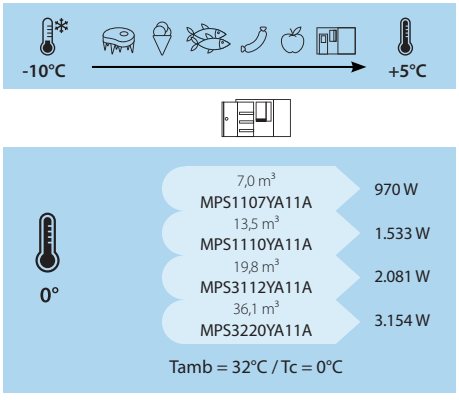
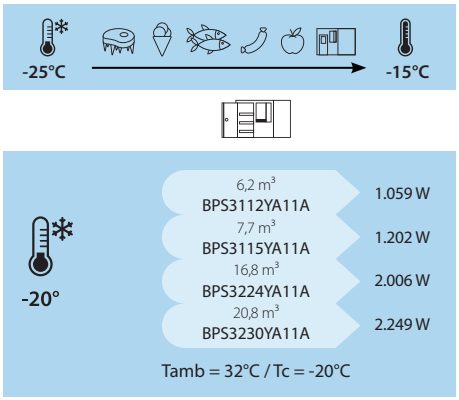
PS R290 monoblock is a smart choice for businesses that want an efficient and reliable refrigeration solution for their cold room.

PS R290 Monoblock features

Standard equipment

- 50 Hz power supply
- CE certified
- Ambient working temperature: +5°C / +45°C
- Cold room working temperature: MT +10°C / -5°C | LT -15°C / -25°C
- MT and LT in separate models
- Hermetic reciprocating compressor
- Suitable for 100mm and 150mm panel
- Fin&tube condenser
- Fin&tube evaporator
- Filter dryer
- Thermal expansion valve
- Condensate evaporation tray with automatic elimination of condensation water
- Fixed calibration HP switch with automatic reset
- Hot gas defrost
- R290 refrigerant charge 150 gr max per circuit
- Electronic control board
- Master slave connection
- Serial output
- Predisposition for connection of "Man in cold room" alarm
- 5m cable for power supply
- 2m cold room lighting cable (Light bulb holder and bulb as option)
- 5m microswitch door cable (Microswitch as option)
- 5m cable for door heater (LT units only)





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EN ISO 5801
ISO 3746
EN 13215

Introducing PS R290 Monoblock for Refrigeration

Up to 8 monoblocks (1 master + 7 slaves) can be installed in a cold room to meet cooling needs.

Our latest innovation for commercial refrigeration – a PS R290 monoblock, specially designed for small walk in cold rooms, suitable for a very wide range of applications like HoReCa., supermarkets and food industry.

Our PS R290 monoblock system is an eco-friendly and cost-effective alternative to traditional refrigeration systems. R290, as a natural refrigerant with zero ozone depletion potential and a low global warming potential, makes it a sustainable and responsible choice for businesses that want to reduce their environmental impact.

In addition to its environmental benefits, our PS R290 monoblock system is also highly efficient, delivering fast and consistent cooling performance while consuming less energy than other refrigeration systems. This means lower operating costs and higher energy savings for your business.

Our team of experts has designed and tested this PS R290 monoblock system to ensure its safety and reliability. We understand the unique needs of the cold rooms industry and have tailored our solution to meet those needs.

If you're looking for a reliable, energy-efficient, and sustainable refrigeration solution for your cold room, look no further than our PS R290 monoblock system.

Why R290 is the ideal solution for your cold room?

Environmental Benefits: R290 is a natural refrigerant with a very low global warming potential and zero ozone depletion potential. This means that it does not contribute to the depletion of the ozone layer or global warming, making it an eco-friendly and sustainable choice for businesses that want to reduce their environmental impact.

Safety: R290-based refrigeration systems are designed with safety in mind. These systems have built-in safety features, which can prevent accidents and minimize the risk of fires or explosions.

Energy Efficiency: R290-based refrigeration systems are highly efficient, delivering fast and consistent cooling performance while consuming less energy than other refrigeration systems. This can result in significant cost savings for businesses, especially those that require constant refrigeration for their products.

Cost Savings: Since R290 is a readily available and affordable refrigerant, businesses can save money on the cost of refrigeration by using R290-based systems. Additionally, R290-based systems have lower maintenance costs and longer lifespans than other refrigeration systems, reducing the need for frequent repairs and replacements.

In summary, the added value of using R290 for refrigeration includes environmental sustainability, energy efficiency, cost savings, and safety. As a natural and efficient refrigerant, R290 is a smart choice for businesses that want to reduce their environmental impact, save money, and ensure the safety of their employees and customers.

Technical Specifications - Model Comparison

Medium temperature units

Model			MPS1107YA11A	MPS1110YA11A	MPS3112YA11A	MPS3220YA11A
Dimensions	H/D/W		745/935/400	745/935/400	850/1010/650	850/1010/650
Weight	kg		50	50	87.6	93
Power supply	Vac/Ph/Hz		230/1N~/50	230/1N~/50	230/1N~/50	230/1N~/50
Voltage range (Min/Max)	V		207-250	207-250	207-250	207-250
Rated input power	W		580	750	1430	1840
Rated input current	A		3.76	3.68	6.86	8.58
Max input power	W		900	920	1680	2140
MCA (Max Current Amps)	A		4.89	4.99	9.12	11.62
MFA (Max Fuse Amps)	A		10	10	10	10
TOCA (Total overcurrent Amps)	A		23	29	49	68
Compressor type			Hermetic reciprocating (ON/OFF controlled)		Hermetic reciprocating (ON/OFF controlled)	
Air flow rate condenser [1]	m^3/h		530	530	930	1030
Air flow rate evaporator [1]	m^3/h		590	590	1150	1230
Air throw evaporator [2]	m		5	5	5	5
PED category			I	I	I	I
IP category			IPX0	IPX0	IPX0	IPX0
Defrost			Hot gas	Hot gas	Hot gas	Hot gas
Condenser operating sound pressure [3]	dBA (10m)		38.5	38.5	47.5	47.5
Operation range ambient temperature	°C	Min	5	5	5	5
		Max	45	45	45	45
Operation range cold room temperature	°C	Min	-5	-5	-5	-5
		Max	10	10	10	10
Refrigerant		Type	R290	R290	R290	R290
		GWP	3	3	3	3
Number of circuits			1	1	1	2
Charge per circuit	kg		Charge limited to 150 gr per circuit		Charge limited to 150 gr per circuit	

1. According to EN ISO 5801 **2.** According to CECOMAF GT 6-001 (final velocity = 0,25 m/s) **3.** According to UNI EN ISO 3746

Why PS R290 Monoblock is the best choice for your cold room?

Easy Installation: PS R290 monoblock is easy to install compared to other refrigeration systems, which often require a separate compressor and condenser unit. This can result in faster installation times and lower installation costs.

Space Saving: Since all the components of the refrigeration system are housed in a single unit, PS R290 monoblock takes up less space in the cold room. This can be especially beneficial for smaller cold rooms where space is limited.

Lower Maintenance: PS R290 monoblock has fewer components than other refrigeration systems, which means there are fewer parts that can fail or require maintenance. This can result in lower maintenance costs and less downtime for your cold room.

Energy Efficiency: PS R290 monoblock can be more energy-efficient than other refrigeration systems because it has fewer connections and less refrigerant piping, which reduces the risk of refrigerant leaks and energy losses.

Low temperature units

Model			BPS3112YA11A	BPS3115YA11A	BPS3224YA11A	BPS3230YA11A
Dimensions	H/D/W		850/1010/650	850/1010/650	850/1010/650	850/1010/650
Weight	kg		87.6	87.6	105.4	105.4
Power supply	Vac/Ph/Hz		230/1N~/50	230/1N~/50	230/1N~/50	230/1N~/50
Voltage range (Min/Max)	V		207-250	207-250	207-250	207-250
Rated input power	W		1090	1240	1740	2040
Rated input current	A		5.62	6.06	9.22	10.1
Max input power	W		1310	1680	2250	2985
MCA (Max Current Amps)	A		7.12	9.12	12.22	16.22
MFA (Max Fuse Amps)	A		10	10	10	10
TOCA (Total overcurrent Amps)	A		37	43	72	84
Compressor type			Hermetic reciprocating (ON/OFF controlled)		Hermetic reciprocating (ON/OFF controlled)	
Air flow rate condenser [1]	m^3/h		930	930	1030	1030
Air flow rate evaporator [1]	m^3/h		1150	1150	1230	1230
Air throw evaporator [2]	m		5	5	5	5
PED category			I	I	I	I
IP category			IPX0	IPX0	IPX0	IPX0
Defrost			Hot gas	Hot gas	Hot gas	Hot gas
Condenser operating sound pressure [3]	dBA (10m)		47.5	47.5	47.5	47.5
Operation range ambient temperature	°C	Min	5	5	5	5
		Max	45	45	45	45
Operation range cold room temperature	°C	Min	-25	-25	-25	-25
		Max	-15	-15	-15	-15
Refrigerant		Type	R290	R290	R290	R290
		GWP	3	3	3	3
Number of circuits			1	1	2	2
Charge per circuit	kg		Charge limited to 150 gr per circuit		Charge limited to 150 gr per circuit	