Introducing PS and PC R290 Monoblocks 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 – PS and PC R290 monoblocks, specially designed for small walk in cold rooms, suitable for a very wide range of applications like HoReCa., food retail and food industry.

PS and PC R290 monoblocks are 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 their environmental benefits, PS and PC R290 monoblocks systems are 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 PS and PC R290 monoblocks systems to ensure safety and reliability. We understand the unique needs of the cold rooms industry and have tailored solutions 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 PS and PC R290 monoblocks systems.

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.

Technical Specifications - Model Comparison

PS R290 monoblock - 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)			
Air flow rate condenser [1]	m3/h	530	530	930	1030
Air flow rate evaporator [1]	m3/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 Max	5 45	5 45	5 45	5 45
Operation range cold room temperature	°C Min Max	-5 10	-5 10	-5 10	-5 10
Refrigerant	Type GWP	R290 0.02	R290 0.02	R290 0.02	R290 0.02
Number of circuits		1	1	1	2
Charge per circuit	kg	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

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.

PS R290 monoblock - Wall-mounted version

PS R290 monoblock - 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)			
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 Max	5 45	5 45	5 45	5 45
Operation range cold room temperature	°C Min Max	-25 -15	-25 -15	-25 -15	-25 -15
Refrigerant	Type GWP	R290 0.02	R290 0.02	R290 0.02	R290 0.02
Number of circuits		1	1	2	2
Charge per circuit	kg	Charge limited to 150 gr per circuit			

Why PS and PC R290 monoblocks are the best choice for your cold room?

Easy Installation | **Space Saving** | **Energy Efficiency** | **Lower Maintenance**

Better in every step of the way

1 Daikin Development
PS and PC R290 follow the proven Daikin development process, ensuring delivery of an outstanding product.

2 Proven Expertise
More than 270,000 units have been manufactured and installed in the market over the last 25 years.

3 Ready when you are
From quick availability in the extensive network of Daikin warehouses to full designs thanks to RefriXpress.

4 Peace of mind
Extensive service network in every country.

PC R290 monoblock - Ceilling-mounted version

WARRANTY 2 YEAR WARRANTY

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EN ISO 5801
ISO 3746
EN 13215

PS and PC R290 Monoblocks Features

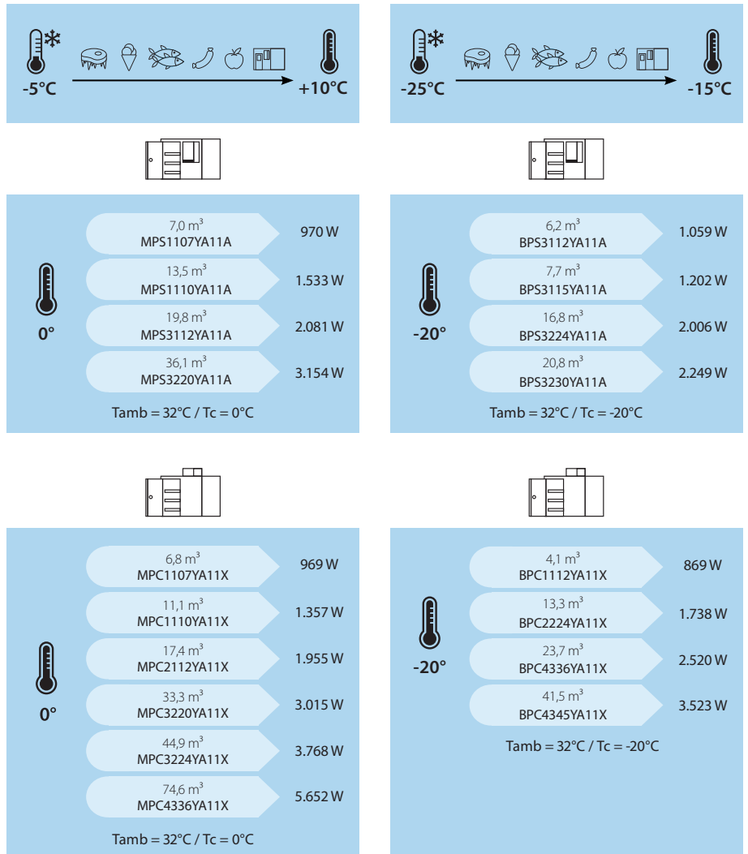
- 50 Hz power supply
- CE certified
- Ambient working temperature: +5°C / +45°C
- Cold room working temperature: MT +10°C / -5°C | LT -15°C / -25°C
- MT and LT in separate models
- Hermetic reciprocating compressor
- Suitable for 100mm and 150mm panel
- Fin&tube condenser
- Fin&tube evaporator
- Filter 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)
- 3m communication cable and remote control panel supplied with PC Monoblock only
- Remote control panel with 5m cable

Optional equipment:

- Audible and visual alarm
- Kit Man cold room
- Monitoring system - 18 ADR
- Monitoring system - 36 ADR
- Kit monitoring system Wi-Fi transmitter
- Kit door switch
- Kit Cold room light

Only for PS:

- Remote control panel
- Kit insulation panel 110/150 mm



Cooling capacity according to EN12900+EN13215

Technical Specifications - Model Comparison

PC R290 monoblock - Medium temperature units

Model		MPC1107YA11X	MPC1110YA11X	MPC2112YA11X	MPC3220YA11X
Dimensions	H/D/W	470/780/655	470/780/655	665/1100/925	665/1100/1050
Weight	kg	56	56	85	120
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	1280	1760
Rated input current	A	3.76	3.68	6.18	8.22
Max input power	W	900	985	1555	2270
MCA (Max Current Amps)	A	4.89	5.35	8.44	12.34
MFA (Max Fuse Amps)	A	10	10	10	10
TOCA (Total overcurrent Amps)	A	23	29	48	68
Compressor type		Hermetic reciprocating (ON/OFF controlled)			
Air flow rate condenser [1]	m3/h	600	600	1800	1800
Air flow rate evaporator [1]	m3/h	550	550	900	1600
Air throw evaporator [2]	m	2	2	2	2
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)	45	45	51	51
Operation range ambient temperature	°C Min	5	5	5	5
	°C Max	45	45	45	45
Operation range cold room temperature	°C Min	-5	-5	-5	-5
	°C Max	10	10	10	10
Refrigerant	Type	R290	R290	R290	R290
	GWP	0.02	0.02	0.02	0.02
Number of circuits		1	1	1	2

PC R290 monoblock - Low temperature units

Model	MPC3224YA11X	MPC4336YA11X	BPC1112YA11X	BPC2224YA11X	BPC4336YA11X	BPC4345YA11X
Dimensions	665/1100/1050	775/1450/1050	470/780/655	665/1100/925	775/1450/1050	775/1450/1050
Weight	120	180	56	110	180	180
Power supply	230/1N~/50	230/1N~/50	230/1N~/50	230/1N~/50	230/1N~/50	230/1N~/50
Voltage range (Min/Max)	207-250	207-250	207-250	207-250	207-250	207-250
Rated input power	2340	3590	810	1600	2580	3020
Rated input current	11.34	17.35	4.49	8.54	13.63	14.95
Max input power	2920	4440	1100	2125	3335	4440
MCA (Max Current Amps)	15.86	24.13	5.99	11.54	18.13	24.13
MFA (Max Fuse Amps)	10	10	10	10	10	10
TOCA (Total overcurrent Amps)	96	144	36	72	108	126
Compressor type	Hermetic reciprocating (ON/OFF controlled)					
Air flow rate condenser [1]	1800	2500	600	1800	2500	2500
Air flow rate evaporator [1]	1600	2000	550	900	2000	2000
Air throw evaporator [2]	2	3	2	2	3	3
PED category	I	I	I	I	I	I
IP category	IPX0	IPX0	IPX0	IPX0	IPX0	IPX0
Defrost	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas
Condenser operating sound pressure [3]	51	51	45	51	51	51
Operation range ambient temperature	5	5	5	5	5	5
	45	45	45	45	45	45
Operation range cold room temperature	-5	-5	-25	-25	-25	-25
	10	10	-15	-15	-15	-15
Refrigerant	R290	R290	R290	R290	R290	R290
	0.02	0.02	0.02	0.02	0.02	0.02
Number of circuits	2	3	1	2	3	3

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