

Моноблочный блок для наружного применения AS-H

Технические характеристики

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AS-H is a special unit for outdoor installation

The AS-H series models are monoblock units for outdoor installation designed for the preservation of fresh products in small-medium size rooms and occasionally subject to movement. Ideal for refrigerating goods inside containers.

The AS-H series is composed by three ranges: MAS for positive temperature rooms (max 157m³ at Tc= +0°C, Tamb= +30°C), BAS for negative temperature rooms (max 175m³ at Tc= -20°C, Tamb= +30°C) and PAS, polyvalent version capable to reproduce both temperature ranges.

The AS-H is a special unit for outdoor installation: the ABS body is designed to avoid rain infiltration, allowing the use of these groups on movable rooms without particular protection against atmospheric agents.

Extremely solid and effective, the body contains a powerful and versatile refrigeration system equipped with hermetic compressor with a capacity adjustment option for PAS models. The expansion is through capillary.

The condensing section, integrated into the monoblock unit, is equipped with four-pole fan complete with a pressure switch for the fan.

The standard equipment of the AS-H models includes the liquid separator-accumulator complete with a filter drier, 100mm cold room panel and crankcase heater to ensure correct and reliable operations also in outdoor installations.

The unit is equipped with hot gas defrosting system with double solenoid valve and condensate evaporation tray.

The models equal or above size 430 are equipped with adjustable calibration maximum and minimum pressure switches with automatic reset, to increase safety and efficiency during operation.

The evaporating section, integrated in the monoblock unit, takes position inside the room following the through wall installation. The quick and easy installation consists of a single hole to accommodate the machine, leaving outside the condensing section.

To maximize the protection of all the components, the condensing section sucks the air from the bottom grid, while the air discharge is through the front grid.

The AS-H installation is simple and quick, facilitated by the provided external power supply plug, the cold room lighting cable (1m) and the micro switch door cable (3m).

The control and setting of the unit are simple and intuitive thanks to the electric control panel equipped with electronic control unit.

The panel, frontally fitted in the unit, includes safety fuses, the main switch, the temperature indicator associated to the electronic thermostat, the manual defrost button, the preheating switch and the power indicator light allowing the user to have an accurate control of the unit.

Standard configuration

- › Hermetic compressor
- › Outdoor installation frame
- › Power supply 220-230/1N~/50 or 380-400/3N~/50
- › Ari + Axial fan
- › Condenser fan pressure switch (frame 1, 2, 3 only)
- › Condenser fan pressure controlled fan speed regulator (frame 4, 5, 6 only)
- › Prearrangement for supervision system (frame 4, 5, 6 only)
- › Voltage monitor (frame 4, 5, 6 only)
- › Filter dryer on liquid line
- › Four-pole condenser fan
- › Expansion through capillary tube (expansion valve only in dual-temperature units)
- › Separator/accumulator on suction line
- › Condensate water evaporation drip tray
- › Hot gas defrost
- › Refrigerant charge
- › Electronic controller
- › Switchboard with protection fuses
- › Condenser fan pressure switch
- › Adjustable Lp switch with automatic reset
- › Adjustable Hp switch with automatic reset
- › 100mm insulated panel for wall mounting
- › Crankcase heater
- › Double defrost solenoid valve
- › External power supply plug
- › 1m cold room lighting cable
- › 3m door micro-switch cable
- › Cataphoresis for condenser coil
- › Cataphoresis for evaporator coil



Personalization options and accessories

Power supply:

- › 220-230/1N~/50 (frame 1, 2 standard)
- › 380-400/3N~/50 (frame 3, 4, 5, 6 standard)
- › 220-230/1N~/60
- › 220-230/3~/50
- › 220-230/3~/60
- › 440/3~/60
- › 380-400/3N~/60
- › 110-115/1N~/60
- › 460/3~/60

Low ambient temperature accessories:

- › Crankcase heater + Condenser fan pressure switch + Double solenoid valve for defrosting + Heating function (frame 1, 2, 3 only)
- › Crankcase heater + Condenser fan pressure controlled fan speed regulator + Double solenoid valve for defrosting + Heating function (frame 4, 5, 6 only)

Kit accessori:

- › Prearrangement for supervision system (standard)
- › Prearrangement for supervision system (heating)

Technical data



AS-H

Cooling capacity calculation conditions

Medium temperature units: [TC=0°C | TA=30°C]

Low temperature units: [TC=-20°C | TA=30°C]

Dual-temperature units: [TC=-20°C | TA=30°C]

Code	MEDIUM TEMPERATURE UNITS								LOW TEMPERATURE UNITS		
	MAS106EA23XH	MAS107EA23XH	MAS211EA23XH	MAS320EB23XH	MAS430EB24TH	MAS535EB24TH	MAS545EB24TH	MAS660EB24TH	BAS110DA23XH	BAS112DA23XH	BAS117DA23XH
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R452A	R452A	R452A
Power supply [V/Ph~/Hz]	230/1~/50	230/1~/50	230/1~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	230/1~/50	230/1~/50	230/1~/50
HP compressor	3/4	1	1,2	3,5	5	6,5	8,5	10	1	1,2	1,7
Defrost	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas
PED category	0	0	0	0	1	2	2	2	0	0	0
Working temperature [°C]	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25
Cooling capacity [Watt]	1.140	1.422	1.816	3.492	4.981	6.988	8.290	10.424	662	905	1.164

	LOW TEMPERATURE UNITS							DUAL-TEMPERATURE UNITS			
Code	BAS218DA23XH	BAS320DB23XH	BAS330DB23XH	BAS445DB24TH	BAS450DB24TH	BAS560DB24TH	BAS680DB24TH	PAS330DB23XH	PAS450DB24TH	PAS565DB24TH	PAS695DB24TH
Refrigerant	R452A	R452A	R452A	R452A	R452A	R452A	R452A	R452A	R452A	R452A	R452A
Power supply [V/Ph~/Hz]	230/1~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50
HP compressor	1,7	2	3	4	5	7,5	10	3	5	7,5	10
Defrost	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas
PED category	0	0	0	2	2	2	2	0	2	2	2
Working temperature [°C]	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	+10 ÷ -5 -15 ÷ -25	+10 ÷ -5 -15 ÷ -25	+10 ÷ -5 -15 ÷ -25	+10 ÷ -5 -15 ÷ -25
Cooling capacity [Watt]	1.436	2.384	2.581	3.628	4.541	6.689	8.663	2.581	4.541	6.689	8.663

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