

Кондиционер для хранения продуктов SAS

Технические характеристики

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Split or monoblock units for commercial applications

The SAS series models, available in split or monoblock version, are refrigeration units for drying and seasoning processes of cured meats and cheeses in small-medium rooms for commercial applications. The SAS units are called “mini-conditioners” thanks to their capability of controlling temperature and humidity levels during operations constantly and in details.

The operation range is from +25°C to +10°C while the achievable humidity range varies from 60% to 80%.

The body is mainly built in galvanized epoxy-painted sheet steel, with removable panels allowing an easy access to internal components. All SAS units can reproduce customized drying and ageing cycles, guaranteeing production in all seasons with any external climatic conditions.

The refrigeration system, protected by a resistant body, consists of hermetic compressor complete with motor protection, capillary tube, evaporator (with air flow from 800 to 6.500 m³/h) and condenser with 4-pole fan equipped with speed variator to optimize condensation pressure.

The units are pre-charged with refrigerant and equipped with filter dryer and fixed calibration high pressure switch with automatic reset.

Small capacity units include condensate evaporation tray. Big capacity units include adjustable calibration maximum and minimum pressure switches with automatic reset, to increase safety and efficiency during operation.

A distinctive feature of the SAS range is the humidification-

dehumidification system, necessary for the implementation of the drying cycles.

Regulated by an electronic controller, the humidity control is performed thanks to the water taken from the water network to which the unit is connected and automatically introduced through spray nozzles. The dehumidification phase precedes a heat recovery post-heating process. The temperature inside the room is regulated by electric heating.

The quick and easy installation of the SAS units on the wall is non invasive for the room volume and requires a single hole where the evaporating section will be inserted, which does not require further connections. Inside the room, the air is distributed through a directional grid, equipped with fins horizontally and vertically adjustable. Air delivery ducts can be supplied on request.

The standard equipment is completed with the electrical panel with safety fuses, the cable for power supply (max 3m) and the cable for temperature/humidity probe panel (max 5m) for a precise monitoring of the humidity and temperature levels inside the entire room.

The functions of SAS units are easily programmable and customizable by means of a practical control board with a remote control panel that allows the adjustment of temperature, humidity, operating and stopping time.

All these features make the SAS units efficient, with high accuracy and suitable for meeting specific needs of the products and of the user.

Standard configuration monoblock range

- › Hermetic compressor
- › Power supply 380-400/3N~/50
- › Air + axial fan
- › Prearrangement for supervision system
- › Pressure controlled condenser fan speed regulator
- › Filter dryer on liquid line
- › Four-pole condenser fan
- › Expansion through capillary tube
- › Separator/accumulator on suction line
- › Condensate evaporation tray (only frame 2 and 3)
- › Refrigerant charge
- › Electronic control board
- › Switchboard with protection fuses
- › Fixed calibration Hp switch with automatic reset
- › Fixed calibration Lp switch with automatic reset
- › Condenser fans speed regulator with pressure probe
- › Humidity control during dehumidification with heat recovery postheating
- › Temperature control with electrical heating
- › Humidity control with automatic water inlet
- › 100mm insulated panel for wall mounting
- › Crankcase heater
- › Evaporator/heat recovery coil with cataphoresis treatment
- › 3m cable for power supply
- › 5m cable for temperature/humidity probes panel
- › 2m cable for fresh air intake (only for the unit without hot gas defrost)

Personalization options and accessories monoblock range

Power supply:

- › 220-230/1N~/50
- › 220-230/1N~/60
- › 220-230/3~/50
- › 220-230/3~/60
- › 440/3~/60
- › 380-400/3N~/60
- › 460/3~/60

Low ambient temperature accessories:

- › Hot gas defrost + Crankcase heater + Pressure controlled condenser fan speed regulator

Accessories kit:

- › Fresh air intake
- › Fresh air intake with hot gas defrost



Standard configuration split range

- › Hermetic compressor
- › Liquid Receiver
- › Liquid receiver shut off valves
- › Filter dryer on liquid line
- › Sight glass
- › Four-pole condenser fan
- › Thermostatic expansion valve
- › Separator/accumulator on suction line
- › Condensing unit with refrigerant charge
- › Evaporator under nitrogen pressure
- › Electronic control board
- › Switchboard with protection fuses
- › Shut off valves on condensing unit/evaporator
- › Fixed calibration Hp switch with automatic reset
- › Fixed calibration Lp switch with automatic reset
- › Condenser fans speed regulator with pressure probe
- › Humidity control during dehumidification with heat recovery postheating
- › Temperature control with electrical heating
- › Humidity control with automatic water inlet
- › Crankcase heater
- › Evaporator/heat recovery coil with cataphoresis treatment
- › 3m cable for power supply
- › 5m cable for temperature/humidity probes panel
- › Remote control panel with 5m cable
- › 2m cable for fresh air intake (only for the unit without hot gas defrost)

Personalization options and accessories split range

Power supply:

- › 220-230/1N~/50
- › 220-230/1N~/60
- › 220-230/3~/50
- › 220-230/3~/60
- › 440/3~/60
- › 380-400/3N~/60
- › 460/3~/60

Low ambient temperature accessories:

- › Hot gas defrost + Crankcase heater + Pressure controlled condenser fan speed regulator

Accessories kit:

- › Fresh air intake
- › Fresh air intake with hot gas defrost



Technical data



	MONOBLOCK UNITS					SPLIT UNITS				
Code	SAS212EB10SM	SAS320EB10SM	SAS430EB10SM	SAS545EB10SM	SAS660EB10SM	SB.SAS212EB10SS	SB.SAS320EB10SS	SB.SAS430EB10SS	SB.SAS545EB10SS	SB.SAS660EB10SS
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Power supply [V/Ph~/Hz]	380-400/ 3N~/50	380-400/ 3N~/50	380-400/ 3N~/50	380-400/ 3N~/50	380-400/ 3N~/50	380-400/ 3N~/50	380-400/ 3N~/50	380-400/ 3N~/50	380-400/ 3N~/50	380-400/ 3N~/50
HP compressor	1	1,5	3	5	7,5	1	1,5	3	5	7,5
Drying [m³]	5	11	23	36	45	5	11	23	36	45
Drying [kg]	200	400	600	950	1.200	200	400	600	950	1.200
Ageing [m³]	20	40	70	125	160	20	40	70	125	160
Ageing [kg]	600	1.000	2.000	3.000	4.000	600	1.000	2.000	3.000	4.000
PED category	1	1	2	2	2	1	1	2	2	2
Working temperature [°C]	+25 ÷ +10	+25 ÷ +10	+25 ÷ +10	+25 ÷ +10	+25 ÷ +10	+25 ÷ +10	+25 ÷ +10	+25 ÷ +10	+25 ÷ +10	+25 ÷ +10
Range RH [%]	60-80	60-80	60-80	60-80	60-80	60-80	60-80	60-80	60-80	60-80
Cooling capacity [Watt] [TC=10°C TA=30°C]	3.400	4.900	8.200	12.800	15.900	3.400	4.900	8.200	12.800	15.900

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