

Кондиционер для хранения продуктов SAR

Технические характеристики

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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: zob@nt-rt.ru || сайт: <https://zanotti.nt-rt.ru/>



Constant and detailed control of the temperature and humidity level

The SAR series models are monoblock units specialized in post-salting resting of hams in small-medium cold rooms for commercial applications.

The SAR 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 +10°C to -5°C while the achievable humidity range varies from 40% to 60%.

All models can reproduce customized resting cycles through a careful enthalpy control with correct fresh air intake from the outside in the cooler hours, guaranteeing production in all seasons with any external climatic condition.

The body is mainly built in galvanized epoxy-painted sheet steel, with removable panels allowing an easy access to internal components.

The refrigeration system consists of hermetic compressor complete with motor protection, thermostatic expansion valve, evaporator (with air flow from 800 to 3.000 m³/h) and condenser with 4-pole fan equipped with fan speed regulator or fan pressure switch to optimize condensation pressure.

The monoblock units are precharged with refrigerant, the split version has only the condensing unit precharged, while the evaporating part is under nitrogen pressure. The units are equipped with liquid receiver/separator with safety valve, filter dryer and fixed calibration maximum and minimum pressure switches with automatic reset.

Small capacity units include condensate evaporation tray. 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 defrosting is programmable, through hot gas and double solenoid valve. The quick and easy installation of the SAR 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 SAR 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 SAR units efficient, with high accuracy and suitable for meeting specific needs of the products and of the user.

Standard configuration monoblock range

- › Hermetic compressor
- › Supply voltage 380-400/3N~/50
- › Air + axial fan
- › Liquid Receiver
- › Filter dryer on liquid line
- › Sight glass
- › Four-pole condenser fan
- › Thermostatic expansion valve
- › Separator/accumulator on suction line
- › Condensate evaporation tray (only frame 2 and 3)
- › Hot gas defrost
- › Refrigerant charge
- › Electronic control board
- › Switchboard with protection fuses
- › Pressure controlled condenser fan speed regulator
- › 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
- › Prearrangement for supervision system
- › 100mm insulated panel for wall mounting
- › Crankcase heater
- › Evaporator/heat recovery coil with cataporesis treatment
- › 3m cable for power supply
- › 5m cable for temperature/humidity probes panel

Standard configuration split range

- › Hermetic compressor
- › Supply voltage 380-400/3N~/50
- › Air + axial fan
- › 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
- › Hot gas defrost
- › Condensing unit with refrigerant charge
- › Evaporator under nitrogen pressure
- › Electronic control board
- › Switchboard with protection fuses
- › Shut off valves on condensing unit/evaporator
- › Pressure controlled condenser fan speed regulator
- › 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
- › Prearrangement for supervision system
- › Crankcase heater
- › Evaporator/heat recovery coil cataporesis treatment
- › 3m cable for power supply
- › 5m cable for temperature/humidity probe panel
- › Remote control panel with 5m cable

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

Accessories kit:

- › Air change device



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

Accessories kit:

- › Air change device



Technical data



Code	MONOBLOCK UNITS			SPLIT UNITS		
	SAR212DB13SM	SAR320DB13SM	SAR430DB13SM	SB.SAR212DB13SS	SB.SAR320DB13SS	SB.SAR430DB13SS
Refrigerant	R452A	R452A	R452A	R452A	R452A	R452A
Power supply [V/Ph~/Hz]	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50	400/3N~/50
HP compressor	1,5	2	4	1,5	2	4
Defrost	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas
PED category	1	1	2	1	1	2
Working temperature [°C]	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5
Range RH [%]	40-60	40-60	40-60	40-60	40-60	40-60
Cooling capacity [Watt] [TC=10°C TA=30°C]	2.900	4.500	7.250	2.900	4.500	7.250

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