



## SAR

Units for post-salting resting of hams  
for small and medium cold rooms

- › Constant and detailed control of temperature and humidity level during operation
- › Compact and functional, with removable panels to allow easy access to internal components
- › Durable exterior body
- › Pre-charged with refrigerant, equipped with filter dryer and fixed calibration maximum and minimum pressure switches with automatic reset



## 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%.

The SAR monoblock series is offered in 3 models that differ in terms of power and dimensions: SAR221, SAR135 and SAR235.

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 2700 m<sup>3</sup>/h) and condenser with 4-pole fan equipped with fan speed regulator or fan pressure switch to optimize condensation pressure.

The units are precharged with refrigerant and 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

- › Hermetic compressor
- › Liquid Receiver
- › Filter dryer
- › Sight glass
- › Four-pole condenser fan
- › Thermostatic expansion valve
- › Separator/accumulator
- › Condensate evaporation tray
- › Hot gas defrost
- › Refrigerant charge
- › Electronic control board
- › Switchboard with protection fuses
- › Fixed calibration Hp switch with automatic reset
- › Fixed calibration Lp switch with automatic reset
- › Condenser fan pressure switch
- › Humidity control during dehumidification with heat recovery postheating
- › Temperature control with electrical heating
- › Humidity control with automatic water inlet
- › 100mm panel for wall mounting
- › Crankcase heater
- › Double defrost solenoid valve
- › 3m cable for power supply
- › 5m cable for temperature/humidity probe panel



### Personalization options and accessories

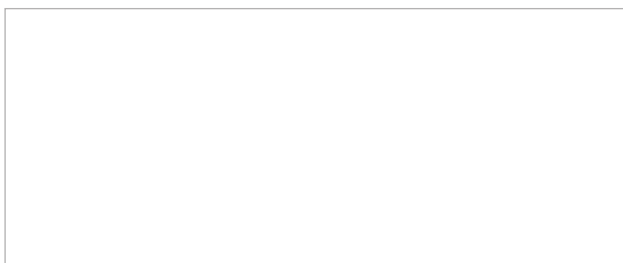
- › Condenser fan speed regulator with pressure control
- › Evaporator cataphoresis treatment
- › Condenser cataphoresis treatment
- › Prearrangement for supervising system
- › Remote control panel
- › Fresh air intake
- › Fresh air intake with hot gas defrost
- › Different voltage
- › Water-cooled condenser
- › Voltage monitor
- › Wooden box packaging
- › Fumigation according ISPM15

# Technical data



Code	SAR221TR01E	SAR135TR01E	SAR235TR01E
Refrigerant	R134a	R134a	R134a
Power supply [V/Ph~/Hz]	400/3N~/50	400/3N~/50	400/3N~/50
HP compressor	1,5	2	4
Defrost	Hot gas	Hot gas	Hot gas
PED category	1	1	2
Working temperature [°C]	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5
Range RH [%]	40-60	40-60	40-60
Cooling capacity [Watt] [TC=10°C   TA=30°C]	2.900	4.500	7.250

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