

RDV

Split units for
bottled wine storage



- › Accurate control of humidity and temperature to guarantee products quality
- › Quick and easy to install, the RDV, thanks to its split type structure, allows many choices of installation
- › Thermostatic expansion valve for an optimal refrigerant flow rate and for higher energy efficiency



Storage of bottled wines in small to medium-sized rooms

The RDV units are refrigerating split machines for storing bottled wines in small and medium-sized rooms by means of electronic control of temperature and humidity.

Sudden temperature changes shorten the life cycle of wine.

For this reason, the respect of the hygrometric conditions, continuous ventilation and the absence of vibrations are fundamental parameters to ensure the best refinement of the product.

Starting from a light and functional steel sheet body with compact dimensions, the RDV models have been designed to adhere to and reproduce the optimal conditions required by wine storage processes. The operation range is from +20°C to +10°C while the achievable humidity range varies from 60% to 80%.

The efficient refrigeration system is divided into its two components: condensing unit and evaporating unit. Protected entirely by the metal sheets, the condensing unit accommodates the soundproof hermetic compressor and the condenser equipped with 4-pole fan. The condensing unit is supplied precharged with refrigerant. The evaporating unit is supplied with pressurized nitrogen and is equipped with the thermostatic expansion valve.

A distinctive feature of this range is the control system of the environment hygrometric conditions. The humidity and temperature control is centralized and managed by a single electronic controller that secures sequences of humidification-dehumidification phases ensuring high efficiency. The humidity control system with electrical resistances is based on the water automatically supplied by the water network to which the unit is connected.

The dehumidification phase precedes a post-heating process where the temperature inside the cell is regulated by electric heating.

The RDV models are equipped with a cable with a probe holder panel

for a constant and accurate detection of temperature and humidity inside the room.

Quick and easy to install, the RDV, thanks to its split type structure, allows the mounting of evaporating and condensing section separately which ensures that the user has a choice of flexible installation, overcoming all the problems deriving from the lack of space that might prevent the mounting of the monoblock on the room wall.

The condensing unit is positioned outside the room on the ground or on an external support while the evaporator can be placed on the ceiling or on the wall inside the room avoiding any reduction of the volume available for the bottle shelves.

Condensing and evaporating units are supplied with connection taps. The standard equipment is completed by separator-accumulator, dryer filter for refrigerant, liquid receiver, automatic defrosting system and cable for power supply.

The RDV functions are easily programmable and customizable through an intuitive electronic controller with a user interface located on the front of the body.

The remote control panel on the wall guarantees accurate and dynamic machine setting as the specific product conditions require.

The RDV units, silenced in operation, compact in dimensions and rigorous in setting substantial parameters such as temperature and humidity, offer a highly effective and innovative solution for owners of natural cellars or adapted rooms, creating the ideal environment to enhance the expression and the unique character of their wines.

Standard configuration

- › Hermetic compressor
- › Power supply 220-230/1N~/50
- › Wall mounting evaporator + Automatic humidification system
- › Liquid Receiver
- › Filter dryer
- › Sight glass
- › Four-pole condenser fan
- › Thermostatic expansion valve
- › Separator/accumulator
- › Condensing unit with refrigerant charge
- › Evaporator under nitrogen pressure
- › Fixed calibration Lp switch with automatic reset
- › Fixed calibration Hp switch with automatic reset
- › Electronic control board
- › Switchboard with protection fuses
- › Shut off valves on condensing unit/evaporator
- › Humidity control during dehumidification with electrical post heating
- › Temperature control with electrical heating
- › Simple low noise housing
- › 3m cable for power supply
- › Remote control panel with 5m cable
- › 5 m cable for temperature/humidity probe panel
- › Condenser fan pressure switch
- › Crankcase heater
- › Prearrangement for supervising system
- › Air condensation with axial fan
- › Crankcase heater and condenser fan pressure switch for low temperature



Personalization options and accessories

Power supply:

- › 220-230/1N~/60

Evaporator characteristics:

- › Ceiling mounting evaporator + Automatic humidification system

Technical data



Code	SB.RDV103EA12S3	SB.RDV105EA12S3	SB.RDV206EA12S3	SB.RDV207EA12S3	SB.RDV103EA12S7	SB.RDV105EA12S7	SB.RDV206EA12S7	SB.RDV207EA12S7
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Power supply [V/Ph~/Hz]	220- 230/1N~/50	220- 230/1N~/50	220- 230/1N~/50	220- 230/1N~/50	220- 230/1N~/50	220- 230/1N~/50	220- 230/1N~/50	220- 230/1N~/50
HP compressor	1/3	3/8	1/2	3/4	1/3	3/8	1/2	3/4
PED category	1	1	1	1	1	1	1	1
Evaporator assembly	Wall	Wall	Wall	Wall	Ceiling	Ceiling	Ceiling	Ceiling
Working temperature [°C]	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10	+20 ÷ +10
Range RH [%]	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]	593	912	1.336	1.935	593	912	1.336	1.935

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