



RS

Monoblock units suitable for medium-large size cold rooms and freezing tunnels

- › Extreme versatility of use, low-medium temperatures, polyvalent temperatures and freezing tunnels
- › Suitable for different types of applications
- › Compact and highly resistant to any environmental condition
- › Solenoid valve and thermostatic valve for high efficiency
- › Control panel with electromechanical instrumentation for controlling all the functionalities of the machine





## Extreme versatility of use, suitable for freezing tunnels

The RS series models are monoblock units characterized by extreme versatility of use, ideal for medium-large rooms.

The series is composed by four ranges: MRS for positive temperature rooms (max 969 m<sup>3</sup> at Tc= +0°C, Tamb= +30°C), BRS for negative temperature rooms (max 1.229 m<sup>3</sup> at Tc= -20°C, Tamb= +30°C), PRS for polyvalent rooms utilized either in medium or in low temperature (max 700 m<sup>3</sup> at Tc= -20°C, Tamb= +30°C) and CRS for freezing tunnel.

It is a range that responds to different types of applications.

All models consist of two units connected together to form a single structure: a condensing unit with a steel body and an evaporating unit, equipped with aluminium sheets that make the product compact and highly resistant.

The solenoid and thermostatic valves for the expansion of the refrigerant are components supplied as standard that allow the optimization of the efficiency of the unit.

The fully automatic hot gas defrosting and the compressor crankcase heater guarantee optimized performance and safety.

A control panel with electromechanical instrumentation manages all the elements of the machine making it easy for the user to adjust all the parameters.

Maintenance is facilitated by the presence of front panels that can be opened for direct and safely access to the refrigeration system.

The installation is through wall type with cold room panel.

The condensing unit is suitable for outdoor installation.

A remote control panel allows the simultaneous management of one or more units installed inside the same room.

All these features make the RS unit a powerful, reliable and versatile machine mainly for industrial applications.

## Standard configuration

- › Bitzer semi-hermetic compressor
- › Power supply 380-400/3N~/50
- › Air + axial fan
- › Crankcase heater
- › Cooling
- › Remote control panel with serial output
- › Insulating panel 240mm
- › Pressure gauges LP/HP (630mm)
- › Fan cowl heaters on B - P - C temperature range (low temperature, dual-temperature, freezing)
- › Hot gas defrost
- › Cataphoresis to the condenser coil
- › Circuit breacher + Magnetohermic Switches
- › Voltage monitor
- › Cumulative alarm relay in the main switchboard => Signal to DI of XLH360 remote control panel
- › Packing in wooden box
- › Filter dryer
- › Four-pole condenser fan
- › Thermostatic valve expansion
- › Liquid receiver
- › Pressure controlled condenser fan speed regulator
- › Liquid separator / exchanger
- › Pump-down stop system
- › Refrigerant charge
- › Switchboard with automatic switches
- › Thermal overload protection for compressor
- › Adjustable calibration Hp switch with manual reset
- › Adjustable calibration LP switch
- › 3m cable for power supply



## Personalization options and accessories

### Power supply:

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

### Control (temperature/humidity):

- › Cooling + heating
- › Cooling + Heating + Dehumidification with heat recovery system

### Evaporator characteristics:

- › Cataphoresis to the evaporator coil

### Accessories kit:

- › Audible and visual alarm
- › Remote control panel for 2-3-4 units
- › Evaporator air streamers

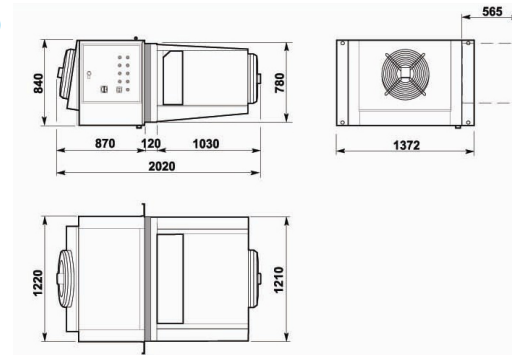


# A wide range of applications

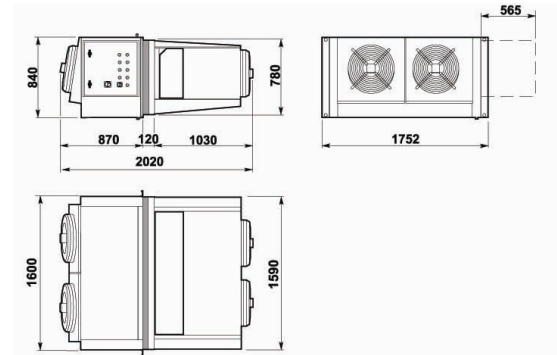


# Units dimensions

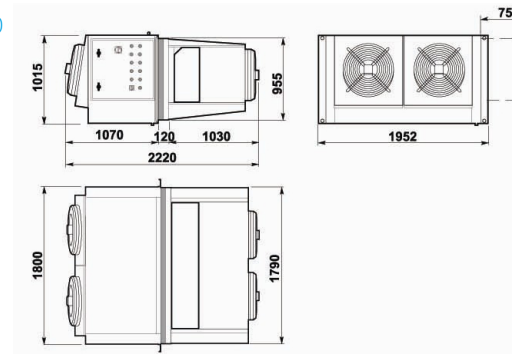
RS150



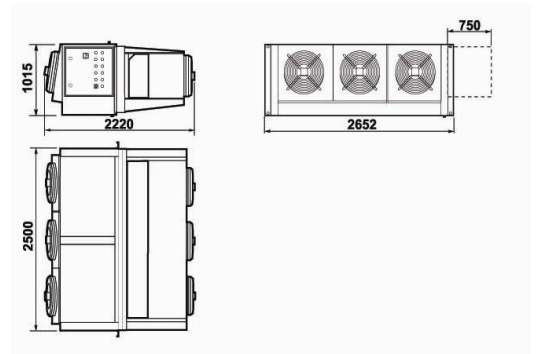
RS245



RS250  
RS251



RS351



# Technical data



## Medium temperature units

Code	MRS150TEB23GXX	MRS245NEB23GXX	MRS245TEB23GXX	MRS250NEB23GXX	MRS250TEB23GXX	MRS251TEB23GXX	MRS351NEB23GXX	MRS351TEB23GXX	MRS150TBB23GXX	MRS245NBB23GXX	MRS245TBB23GXX	MRS250NBB23GXX
Refrigerant	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R449A	R449A	R449A	R449A
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	380-400/3N~/50	380-400/3N~/50
Compressor type	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic
HP compressor	5	5	12	12	15	25	25	30	4	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	Hot gas
PED category	2	2	2	2	2	2	2	2	2	2	2	2
Working temperature [°C]	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5
Cooling capacity [Watt] [TC=0°C   TA=30°C]	9.164	12.657	16.096	20.284	24.165	28.414	35.852	40.837	10.068	14.408	17.858	23.630

Code	MRS250TBB23GXX	MRS251TBB23GXX	MRS351NBB23GXX	MRS351TBB23GXX
Refrigerant	R449A	R449A	R449A	R449A
Power supply [V/Ph~/Hz]	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50
Compressor type	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic
HP compressor	15	20	25	30
Defrost	Hot gas	Hot gas	Hot gas	Hot gas
PED category	2	2	2	2
Working temperature [°C]	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5	+10 ÷ -5
Cooling capacity [Watt] [TC=0°C   TA=30°C]	26.544	26.114	35.976	38.891

## Low temperature units

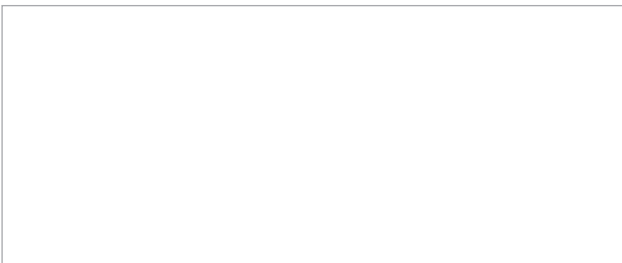
Code	BRS150NBB23GXX	BRS150TBB23GXX	BRS245NBB23GXX	BRS245TBB23GXX	BRS250NBB23GXX	BRS250TBB23GXX	BRS251TBB23GXX	BRS351NBB23GXX	BRS351TBB23GXX
Refrigerant	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A	R449A
Power supply [V/Ph~/Hz]	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50	380-400/3N~/50
Compressor type	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic
HP compressor	7,5	10	12,5	15	20	25	30	40	50
Defrost	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas
PED category	2	2	2	2	2	2	2	2	2
Working temperature [°C]	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25	-15 ÷ -25
Cooling capacity [Watt] [TC=-20°C   TA=30°C]	8.191	8.670	11.102	14.423	18.531	21.344	23.648	31.599	35.030

## Freezing and dual-temperature units

Code	FREEZING				DUAL-TEMPERATURE		
	CRS150NBB23GXX	CRS150TBB23GXX	CRS250NBB23GXX	CRS250TBB23GXX	PRS150TBB23GXX	PRS245TBB23GXX	PRS251TBB23GXX
Refrigerant	R449A	R449A	R449A	R449A	R449A	R449A	R449A
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
Compressor type	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic	Semi-hermetic
HP compressor	7,5	10	15	25	10	15	30
Defrost	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas	Hot gas
PED category	2	2	2	2	2	2	2
Working temperature [°C]	-30 ÷ -50	-30 ÷ -50	-30 ÷ -50	-30 ÷ -50	+5 ÷ -5 -15 ÷ -25	+5 ÷ -5 -15 ÷ -25	+5 ÷ -5 -15 ÷ -25
Cooling capacity [Watt] Freezing [TC=30°C   TEV=-35°C] Dual-temperature [TC=-20°C   TA=30°C]	5.188	7.373	16.721	22.251	8.669	14.123	21.923



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ECPEN21-843D

09/2023



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