

Galaxy Chillers

GALAXY MINI



Natural refrigerants available!
#R290

Choose propane or propylene and
contribute to the environment!

DESCRIPTION

Galaxy Mini air-cooled chiller has the cooling capacity of 25 kW to 45 kW and is designed for commercial refrigeration and air conditioning applications with small power demand. Such systems are widely used in various factory cooling processes, supermarkets, gas stations and many other applications. **Galaxy Mini chiller is made with one circuit to service the end user.**

Galaxy Mini can be integrated with a built-in hydraulic module or a heat recovery system and other useful additional options. Refra manufactures modern devices using plug-and-play ideology, making the installation and use of the devices as easy as possible. In this case, the customer can start using the device quickly and easily after installment.

Comprehensive frame is assembled with high-quality EC fan motor technology, microchannel heat exchangers, reciprocating compressors. The galvanized steel and powder coated frame with a reliable 20 mm non-flammable acoustical PU foam insulation material ensures proper unit protection as well as noise reduction. An additional 30 mm rock wool material can be supplemented for a super silent unit operation.

PARTS INCLUDED:

- Bitzer reciprocating compressors (Ex II-3G) with oil charge and oil level monitoring/differential pressure switch;
- Polymer powder painted RAL7035 frame;
- HP/LP pressure switch per circuit;
- HP/LP pressure gauges per circuit;
- Necessary pressure and temperature probes;
- Air cooled microchannel condenser;
- Double safety valves per circuit;
- Filter drier on liquid line per circuit;
- Sight glass on liquid line per circuit;
- Magnetic expansion valve per circuit;
- Control board with Siemens Climatix controller;
- Vibration absorbers;
- BPHE evaporator;
- R290 leak detector;
- Emergency EX fan;
- EC Fans.

Technical Parameters | Galaxy Mini

CALCULATIONS ARE MADE FOR BASIC UNITS WITHOUT ADDITIONAL OPTIONS

Model		GAL101	GAL102	GAL103
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Standard version

Refrigeration capacity ¹	kW	27,90	33,20	38,10
Power consumption	kW	7,90	8,90	10,30
EER		3,5	3,7	3,7
SEPR		6,43	6,88	6,61
SEER		4,69	4,98	4,90

System data

Refrigerant	Type	R290		
Number of compressors	n	1	1	1
Refrigerant quantity ²	kg	2,8	2,8	2,8
Inlet/Outlet connections	DN	40	40	40
Sound pressure level in 10m ³	dB	46	46	47

Fan

Type		EC		
Number of fans	n	3	3	3
Air flow	m³/h	17949	17949	17949

Plate heat exchanger

Number of plate heat exchangers	n	1	1	1
Flow rate cooling ¹	m³/h	5,3	6,3	7,3
Pressure drop cooling	kPa	17,6	22,4	27,2

Power supply

Voltage		400V 3Ph/N/PE		
Max. power consumption	A	27,0	29,1	33,0

Dimensions and weight

Length	mm	2652	2652	2652
Width	mm	1000	1000	1000
Height	mm	1690	1690	1690
Operating weight	kg	690	720	730

¹ Outside air temperature 35°C, medium temperature 12/7°C, medium EG 35%.

² Theoretical values refer to the basic unit. The actual amount of gas charge in the unit may differ.

³ Sound pressure level at a distance of 10m in the free field and at the extended point, tolerance +/-2dB(A).