

GALAXY TRIBUS

R290 CHILLERS



NATURAL HVAC SYSTEMS SOLUTIONS
FOR A MORE SUSTAINABLE FUTURE

* The photos in this brochure are for illustrative purposes only.
The appearance of the final product may vary depending on your
selections, additional options and other order details.



PRODUCT DESCRIPTION

Galaxy Tribus air-cooled chiller has the cooling capacity of 176 kW to 360 kW and is designed for industrial or commercial buildings with medium to large power demand. Such systems are widely used in various factories, supermarkets, warehouses and office buildings. Galaxy Tribus chiller is made with three circuits to ensure continuous system operation in case of emergency – if one circuit is damaged, the others can still use the remaining unit capacity to service the end user.

Special modular assembly system provides the ability to integrate Galaxy Tribus with useful additional options, such as a built-in hydraulic module and heat recovery system. With extensive power selection options and many possible extra features, Galaxy chillers stand out as one of the most versatile products that Refra can offer.

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 modular frame construction 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

Calculations are made for basic units without additional options

Model		GAL323	GAL326	GAL331	GAL335	GAL339	GAL343
Standard version							
Refrigeration capacity ¹	kW	190,20	216,90	256,20	283,20	326,40	373,50
Power consumption	kW	55,10	62,50	75,30	87,60	99,60	116,60
EER		3,5	3,5	3,4	3,2	3,3	3,2
SEPR		7,02	6,90	6,50	7,00	6,93	8,68
SEER		5,48	5,38	5,38	5,68	5,55	5,56

System data							
Refrigerant	Type	R290					
Number of compressors	n	3	3	3	3	3	3
Refrigerant quantity ²	kg	4,4	4,4	5,1	5,8	6,9	6,9
Inlet/Outlet connections	DN	100	100	100	125	125	125
Sound pressure level in 10m ³	dB	56	58	58	59	60	60

Fan							
Type		EC					
Number of fans	n	6	6	6	12	12	12
Air flow	m ³ /h	124794	124794	124794	249588	249588	249588

Plate heat exchanger							
Number of plate heat exchangers	n	3	3	3	3	3	3
Flow rate cooling ¹	m ³ /h	36,4	41,5	48,9	54,3	62,6	71,5
Pressure drop cooling	kPa	15,1	18,8	14,0	16,8	15,1	19,0

Power supply							
Voltage		400V 3Ph/N/PE					
Max. power consumption	A	143,7	165,6	195,6	227,1	262,2	323,1

Dimensions and weight							
Length	mm	4082	4082	4082	7695	7695	7695
Width	mm	2321	2321	2321	2321	2321	2321
Height	mm	2355	2355	2355	2355	2355	2355
Operating weight	kg	2890	2890	2890	4900	4900	4900

Dimensions and weight with additional buffer tank							
Length	mm	5286	5286	5286	8900	8900	8900
Width	mm	2321	2321	2321	2321	2321	2321
Height	mm	2355	2355	2355	2355	2355	2355
Net weight	kg	+290 kg (500 L) or +430 kg (800 L)					

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).

**Additional Information**

All Dimensions shown in Millimetres (mm) unless otherwise stated. Dimensions and features are subject to change. Please obtain current technical information prior to order confirmation.

NOTE: We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or Shipped.

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