



**RICA** 2000 s.r.l.

**INDUSTRIAL - REFRIGERATION - EQUIPMENT - CONSTRUCTION**

***SERIES CHILLER UNIT "GRA"***



# SERIES CHILLER UNIT "GRA"

## Models GRA 50B to GRA 450B "all stainless steel" or "painted"

The chillers in this series are specifically designed for industrial applications where high reliability in operation and output is required, and in sectors where high cooling power is required.

Models GRA 50B to GRA 90 B can be built with a single gas circuit (R 448A) and one semi-hermetic compressor, or with two gas circuits (R 448A) and two semi-hermetic compressors (GRA ...B 2C).

Models GRA 100B to GRA 230B are built with a double gas circuit (R 448A) and two semi-hermetic compressors (GRA ... B 2C).

Models GRA 230B to GRA 450B can be built with a double gas circuit (R448) with two screw compressors (GRA ...B 2CV), or with four gas circuits (R 448A) and four piston compressors (GRA ...B 4C).

All models can be supplied with cycle inversion (heat pump) with a limit of use in cooling with outside air at 38 / 40°C and in heating with outside air at 0°C.

Models up to GRA 90B can be equipped with an internal hydro-glycol mixture storage tank, made of stainless steel, fully insulated and with a capacity ranging from 250 litres to 550 litres depending on the size. For the other models, the accumulation tank is provided externally and is supplied on request.

The condensing coil, of the aluminium finned pack and copper tube type, has independent circuits for each compressor and is able to dissipate the heat produced by the compressor thanks to a high exchange surface area.

The axial electric fans, variable in number and diameter according to the power of the unit, are equipped as standard with a speed regulator to optimise the condensing conditions of the unit.

The electrical panel installed on each unit, suitable for external use, has all the control and safety systems both on the power circuit (AT) and on the auxiliary section (BT).

All GRA chillers are tested at our factory and a certificate is issued after successful testing to guarantee proper functioning.

Model GRA.V 150B



Model GRA.V 180B



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Code	Dimensional data				Productivity yield in W		
	Type refrigerator	Lenght (mm)	Width (mm)	Height (mm)	Weight Kg.	glycol +5°C	glycol -8°C
<b>GRA.I 50B</b>	2.475	1.100	2.335	835	83.300	51.950	32,5
<b>GRA.I 50B 2C</b>				910	91.450	56.000	36,0
<b>GRA.I 60B</b>	3.575	1.650	2.335	1.230	98.950	60.750	38,5
<b>GRA.I 60B 2C</b>				1.360	111.500	67.800	46,0
<b>GRA.I 70B</b>	3.575	1.650	2.335	1.305	124.600	75.680	45,5
<b>GRA.I 70B 2C</b>				1.435	133.400	81.700	52,0
<b>GRA.I 90B</b>	3.575	1.650	2.335	1.590	155.100	93.990	56,5
<b>GRA.I 90B 2C</b>				1.690	153.700	95.700	58,0
<b>GRA.I 100B 2C</b>	3.575	1.650	2.335	1.820	166.600	103.900	64,0
<b>GRA.I 120B 2C</b>	3.575	1.650	2.335	2.160	197.900	121.500	73,0
<b>GRA.I 150B 2C</b>	3.575	2.200	2.335	2.400	249.200	151.300	90,0
<b>GRA.I 180B 2C</b>	3.575	2.200	2.335	2.810	310.200	187.900	109,0
<b>GRA.I 200B 2C</b>	4.675	2.200	2.335	3.080	343.000	207.800	124,0
<b>GRA.I 230B 2C</b>	4.675	2.200	2.335	3.350	396.400	240.600	141,0
<b>GRA.I 280B 2C</b>	4.675	2.200	2.335	3.200	465.800	283.400	162,0
<b>GRA.I 300B 4C</b>	4.675	2.200	2.335	4.000	498.400	302.600	176,0
<b>GRA.I 350B 4C</b>	7.150	2.200	2.335	5.150	620.400	375.800	215,0
<b>GRA.I 400B 4C</b>	9.625	2.200	2.335	5.610	686.000	415.600	250,0
<b>GRA.I 450B 4C</b>	11.000	2.200	2.335	6.150	792.800	481.200	285,0

Models GRA 250 B to GRA 450 B can also be realised in combination with remote condensers (example: indoor machine room with rooftop condensers).

Models with power ratings above 450 kW will be realised at the customer's specific request.



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Factory: Via Artigianato 3, Fraz. Motta - 14055 COSTIGLIOLE D'ASTI (AT) - Tel. 0141 875179 - Fax 0141 875491 - [www.rica2000.it](http://www.rica2000.it) - [info@rica2000.it](mailto:info@rica2000.it)

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## PRODUCTIVITY IN HL

Type refrigerator	Musts control (hl)	Stabilization wines: (hl)
<b>GRA.I 50B</b>	3.190	375
<b>GRA.I 50B 2C</b>	3.500	400
<b>GRA.I 60B</b>	3.790	435
<b>GRA.I 60B 2C</b>	4.270	485
<b>GRA.I 70B</b>	4.770	545
<b>GRA.I 70B 2C</b>	5.100	585
<b>GRA.I 90B</b>	5.930	675
<b>GRA.I 90B 2C</b>	5.880	690
<b>GRA.I 100B 2C</b>	6.370	750
<b>GRA.I 120B 2C</b>	7.570	870
<b>GRA.I 150B 2C</b>	9.530	1.100
<b>GRA.I 180B 2C</b>	11.860	1.350
<b>GRA.I 200B 2C</b>	13.110	1.500
<b>GRA.I 230B 2C</b>	15.160	1.730

Models GRA 250 B to GRA 450 B and above 450 kW are designed exclusively to customer specifications, with every technical detail available.

The above data are theoretical, for the actual productivity of the refrigeration unit, the actual conditions of the entire plant must be considered.



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## MECHANICAL EQUIPMENT

<i>Type refrigerator</i>	<i>N° compressors</i>	<i>Condenser</i>	<i>Tube bundle evaporator</i>	<i>Fans</i>	<i>Internal tank capacity (lt) ( optional )</i>
<b>GRA.I 50B</b>	1	1	1 single-circuit	2	420 LT
<b>GRA.I 50B 2C</b>	2	1	1 dual-circuit	2	420 LT
<b>GRA.I 60B</b>	1	1	1 single-circuit	3	420 LT
<b>GRA.I 60B 2C</b>	2	1	1 dual-circuit	3	420 LT
<b>GRA.I 70B</b>	1	1	1 single-circuit	3	550 LT
<b>GRA.I 70B 2C</b>	2	1	1 dual-circuit	3	550 LT
<b>GRA.I 90B</b>	1	1	1 single-circuit	3	550 LT
<b>GRA.I 90B 2C</b>	2	1	1 dual-circuit	3	550 LT
<b>GRA.I 100B 2C</b>	2	1	1 dual-circuit	3	-
<b>GRA.I 120B 2C</b>	2	2	1 dual-circuit	4	-
<b>GRA.I 150B 2C</b>	2	2	1 dual-circuit	6	-
<b>GRA.I 180B 2C</b>	2	2	1 dual-circuit	6	-
<b>GRA.I 200B 2C</b>	2	2	1 dual-circuit	8	-
<b>GRA.I 230B 2C</b>	2	2	1 dual-circuit	8	-
<b>GRA.I 300B 4C</b>	4	4	2 dual-circuit	8	-
<b>GRA.I 350B 4C</b>	4	4	2 dual-circuit	10	-
<b>GRA.I 400B 4C</b>	4	4	2 dual-circuit	12	-
<b>GRA.I 450B 4C</b>	4	4	2 dual-circuit	12	-



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## AVAILABLE OPTIONS

Type refrigerator	heat recuperators	Hot kit	Reversal cycle	Grid condenser	Anti vibration	Hydronic module	PLC
GRA.I 50B	✓	❄	✓	✓	✓	✓	✓
GRA.I 50B 2C	✓	❄	✓	✓	✓	✓	✓
GRA.I 60B	✓	❄	✓	✓	✓	✓	✓
GRA.I 60B 2C	✓	❄	✓	✓	✓	✓	✓
GRA.I 70B	✓	❄	✓	✓	✓	✓	✓
GRA.I 70B 2C	✓	❄	✓	✓	✓	✓	✓
GRA.I 90B	✓	❄	✓	✓	✓	✓	✓
GRA.I 90B 2C	✓	❄	✓	✓	✓	✓	✓
GRA.I 100B 2C	✓	-	✓	✓	✓	-	✓
GRA.I 120B 2C	✓	-	✓	✓	✓	-	✓
GRA.I 150B 2C	✓	-	✓	✓	✓	-	✓
GRA.I 180B 2C	✓	-	✓	✓	✓	-	✓
GRA.I 200B 2C	✓	-	✓	✓	✓	-	✓
GRA.I 230B 2C	✓	-	✓	✓	✓	-	✓
GRA.I 300B 4C	✓	-	✓	✓	✓	-	✓
GRA.I 350B 4C	✓	-	✓	✓	✓	-	✓
GRA.I 400B 4C	✓	-	✓	✓	✓	-	✓
GRA.I 450B 4C	✓	-	✓	✓	✓	-	✓

- ✓ : Available
- : Not available
- ❄ : Available only in configuration with internal tank



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***“From generation to generation since 1965”***

**FACTORY:**

**Via Artigianato 3,  
Fraz. Motta di Costigliole  
14055, Costigliole d'Asti (AT)  
ITALY**



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