

INTENSE



Low Profile Unit Cooler HIGH FLOW



Low Profile Unit Cooler indicated for cold rooms with ceiling height up to 4 meters that requires more air exchanges. Ideal for commercial and industrial chambers and walk-in exhibitors.



1.313 - 14.857 Kcal/h
1526 - 17.275 W

INTENSE

High flow low profile unit cooler

For cold rooms with a useful height up to 4 meters


Advantages

- Greater chamber air exchange/m³ of the chamber.
- Higher flow provides faster temperature stabilization in environments with greater variation in thermal load
- Greater range of capacities
- Higher thermal and energy efficiency
- Quick response electrical defrost system
- Standardized electrical assembly(NBR5410)
- Resistances removal from the rear of the equipment, without the need to disconnect the drain
- Plug & Play concept: ease installation and operation
- 2 levels of protection against harsh environments
- Easy access to the motor-fan
- Adaptable to all refrigerant fluids

Versão Standard

- ½" copper tubes external diameter
- 300mm AC Motor-fan
- 6mm spacing between aluminum fins (4al/pol)
- Flat plan steel aluminum cabinet
- Spring electrical connections
- Air defrost

Optionals

- 300mm AC Motor-fan 300mm
- Epoxy electrostatic white painting
- Stainless steel cabinet
- Insulated over tray for applications that require double insulated drain pan
- Exclusive  protection against harsh environments
- Hot gas defrosting in the core
- Hot gas defrosting in the core and electrical in the drain pan
- Thermal protector incorporated in the versions with electric defrost
- Drain resistor installed in versions with electric defrost
- Independent electrical boxes for motors and resistances
- Expansion and solenoid valve.
- Direct expansion connection and drain pan

Applications

- Ideal for: commercial and industrial cold rooms, walk-in exhibitors, air conditioning and industrial applications.
- Robust construction with fins specially designed for application in refrigeration at high, medium and low evaporation temperatures

Mi GS300 Model	Kcal/h									Watts								
	Evaporation Temperatures									Evaporation Temperatures								
	-31 °F -35 °C	-22 °F -30 °C	-13 °F -25 °C	-4 °F -20 °C	5 °F -15 °C	14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C	-31 °F -35 °C	-22 °F -30 °C	-13 °F -25 °C	-4 °F -20 °C	5 °F -15 °C	14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C
0019	1313	1363	1408	1452	1494	1535	1583	1708	1782	1526	1585	1637	1688	1737	1785	1840	1986	2072
0037	2724	2830	2922	3014	3101	3186	3285	3544	3698	3168	3291	3397	3504	3606	3705	3820	4121	4300
0055	4051	4208	4344	4481	4611	4737	4884	5270	5499	4710	4893	5051	5210	5361	5508	5679	6128	6394
0073	5408	5617	5800	5982	6155	6324	6520	7035	7341	6288	6532	6744	6956	7157	7353	7581	8181	8536
0092	6818	7083	7313	7543	7761	7974	8221	8871	9256	7928	8236	8503	8771	9025	9272	9560	10315	10763
0111	8151	8467	8742	9017	9278	9532	9828	10604	11065	9478	9845	10165	10484	10788	11084	11427	12330	12866
0130	9556	9927	10249	10572	10878	11176	11522	12433	12973	11112	11543	11918	12293	12649	12995	13398	14457	15085
0149	10944	11369	11738	12107	12458	12799	13196	14239	14857	12726	13219	13649	14078	14486	14883	15344	16556	17275

Capacities (DT=10.8°F / DT1=6°K)
 For 50Hz capacities, multiply by 0.92
 For capacities with ESM Motor-fan, contact us.

Dt1: Difference between the air inlet temperature in the evaporator and the evaporation temperature of the refrigerant liquid.
 °K = Kelvin degrees
 °F = Fahrenheit degrees

The air inlet temperature in the evaporator is considered as the approximate temperature of the chamber.

Características

Mi GS300 Model	V	C		Flow rate m³/h	AC Fans			ESM Fans			Electric Resistance		
	dm³	Refr. Kg			1~ 220V			1~ 220V			W	1~ 220V	3~ 220V
					dB(A)	W	A	dB(A)	W	A		A	A
0019	2,2	0,44	01	1 x 1490	44,3	120	0,80	44,3	72	0,32	2 x 600	5,5	5,5d
0037	3,9	0,78	02	2 x 1430	47,5	240	1,60	47,5	144	0,64	2 x 1200	10,9	10,9d
0055	5,6	1,13	03	3 x 1430	49,5	360	2,40	49,5	216	0,96	3 x 1200	16,4	9,5
0073	7,1	1,38	04	4 x 1430	50,5	480	3,20	50,5	288	1,28	3 x 1600	21,8	12,6
0092	9,1	1,82	05	5 x 1430	51,5	600	4,00	51,5	360	1,60	3 x 2000	27,3	15,8
0111	10,8	2,16	06	6 x 1430	52,5	720	4,80	52,5	432	1,92	3 x 2400	32,7	18,9
0130	12,5	2,51	07	7 x 1430	53,5	840	5,60	53,5	504	2,24	3 x 2800	38,2	22,1
0149	14,3	2,85	08	8 x 1430	54,5	960	6,40	54,5	576	2,56	3 x 3200	43,6	25,2

Subtítulos

V = Internal Volume

C = Approximate charge of refrigerant

m³/h = Air flow measured at a density of 1.2 M³ / Kg

d = Unbalanced consumption.

Noise level obtained in open field conditions at a distance of 1 meter. (The real noise level depends on factors such as: Chamber construction, load type, number of devices installed). 12 meters of air range with final speed of 0,25m/s. The final speed is obtained in open field condition. The air range, can't be considered an absolute value, due to many factors that influence this distance.

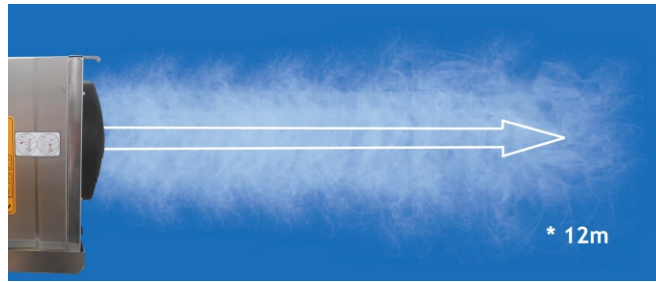
We recommend the use of this model for cold rooms with ceiling height up to 4 meters.

Connector resistant to temperature variations, vibration and shock. Spring-loaded technology reduces the time for electrical installations without the need for special tools.

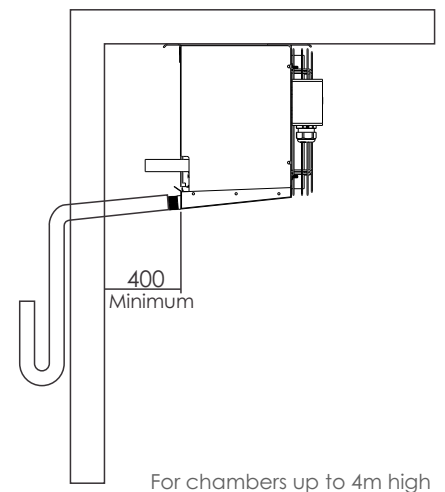
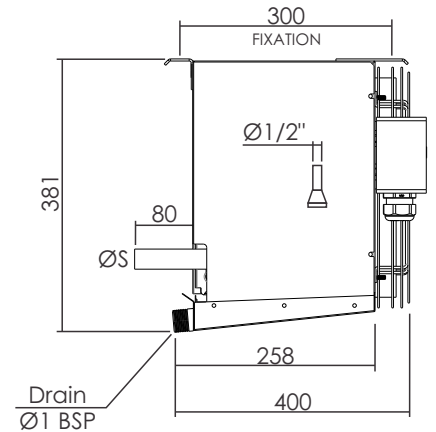
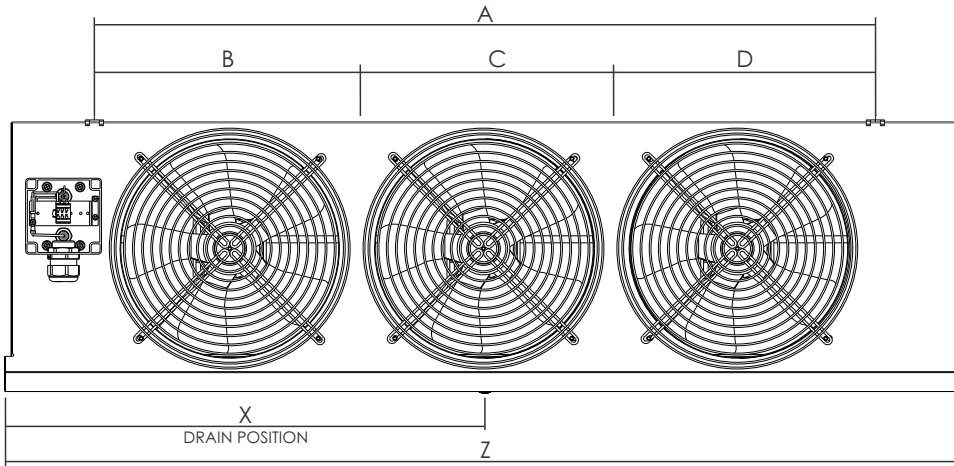


Use our Android app for quick equipment selection.

Air Range

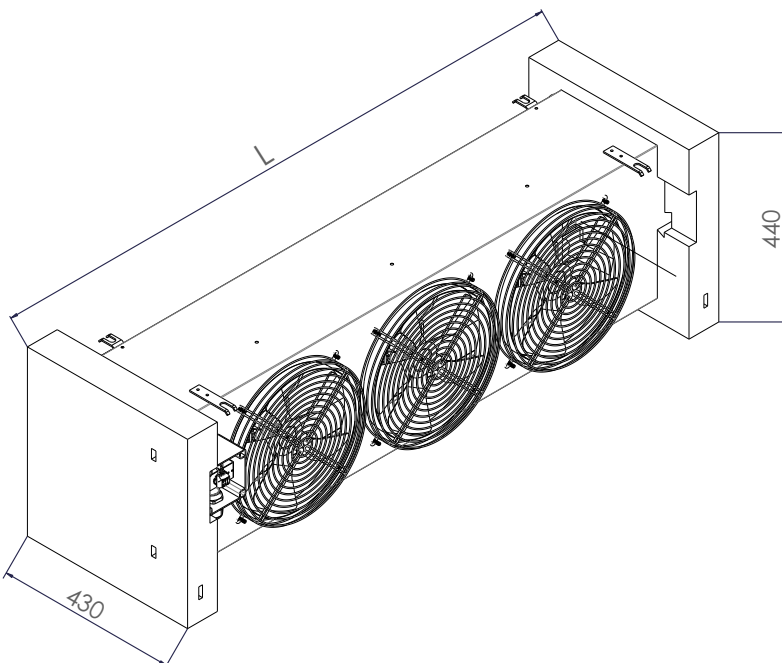


Dimensional



Mi GS300	Fan Icon	Dimensional (mm)							Weight (Kg)	
		A	B	C	D	Z	X	Ø S	Net	Gross
0019	1	385	-	-	-	640	320	1/2"	8,6	9,2
0037	2	748	-	-	-	1003	501	5/8"	14,2	15,0
0055	3	1111	-	-	-	1366	683	1 1/8"	20,2	21,2
0073	4	1474	726	-	748	1730	890	1 1/8"	26,5	27,8
0092	5	1837	726	363	748	2092	1046	1 1/8"	31,7	33,2
0111	6	2200	1089	-	1111	2455	1253	1 1/8"	36,3	38,0
0130	7	2563	726	1089	748	2818	1409	1 1/4"	42,1	44,0
0148	8	2926	1089	726	1111	3181	1590	1 1/4"	48,0	50,2

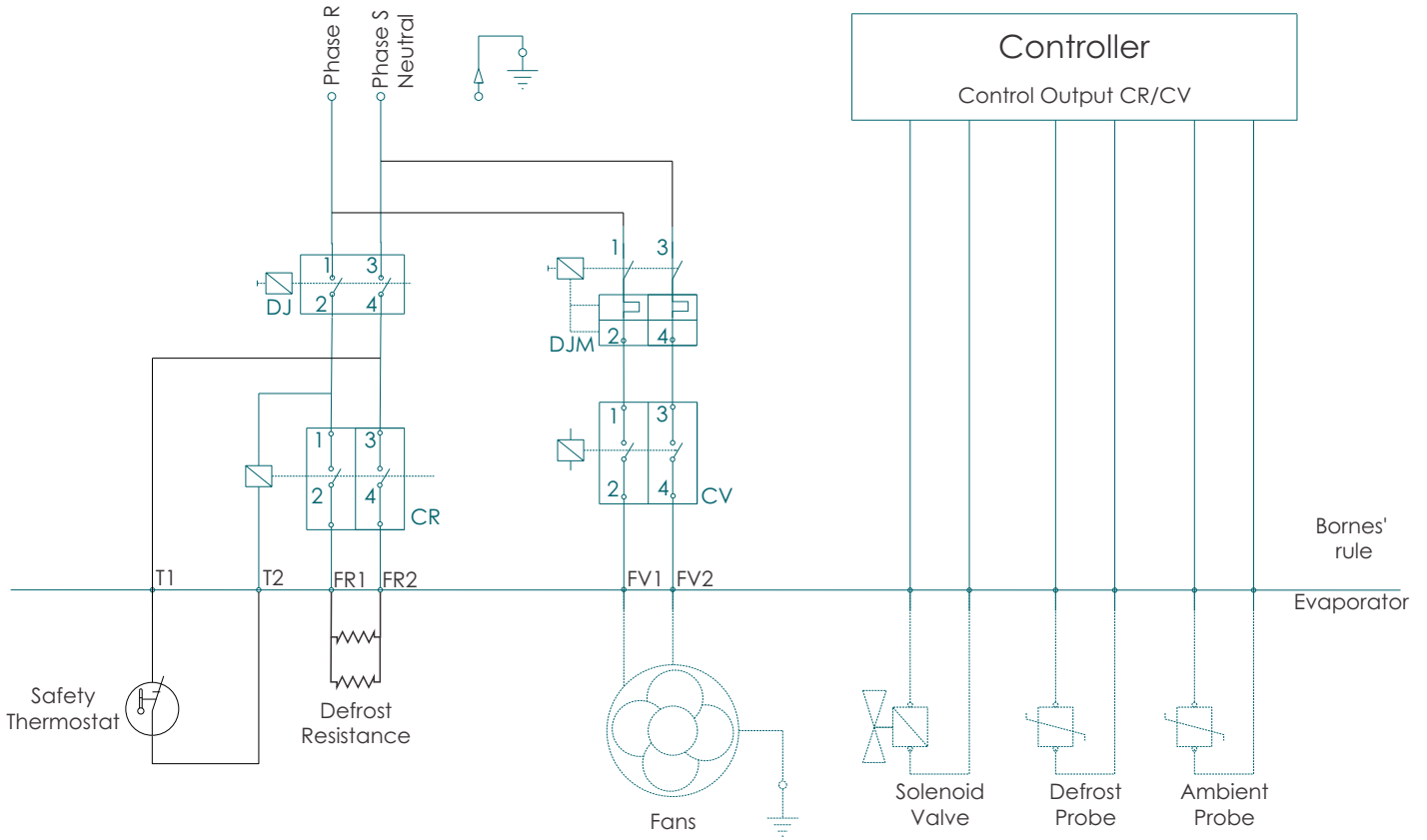
Packing



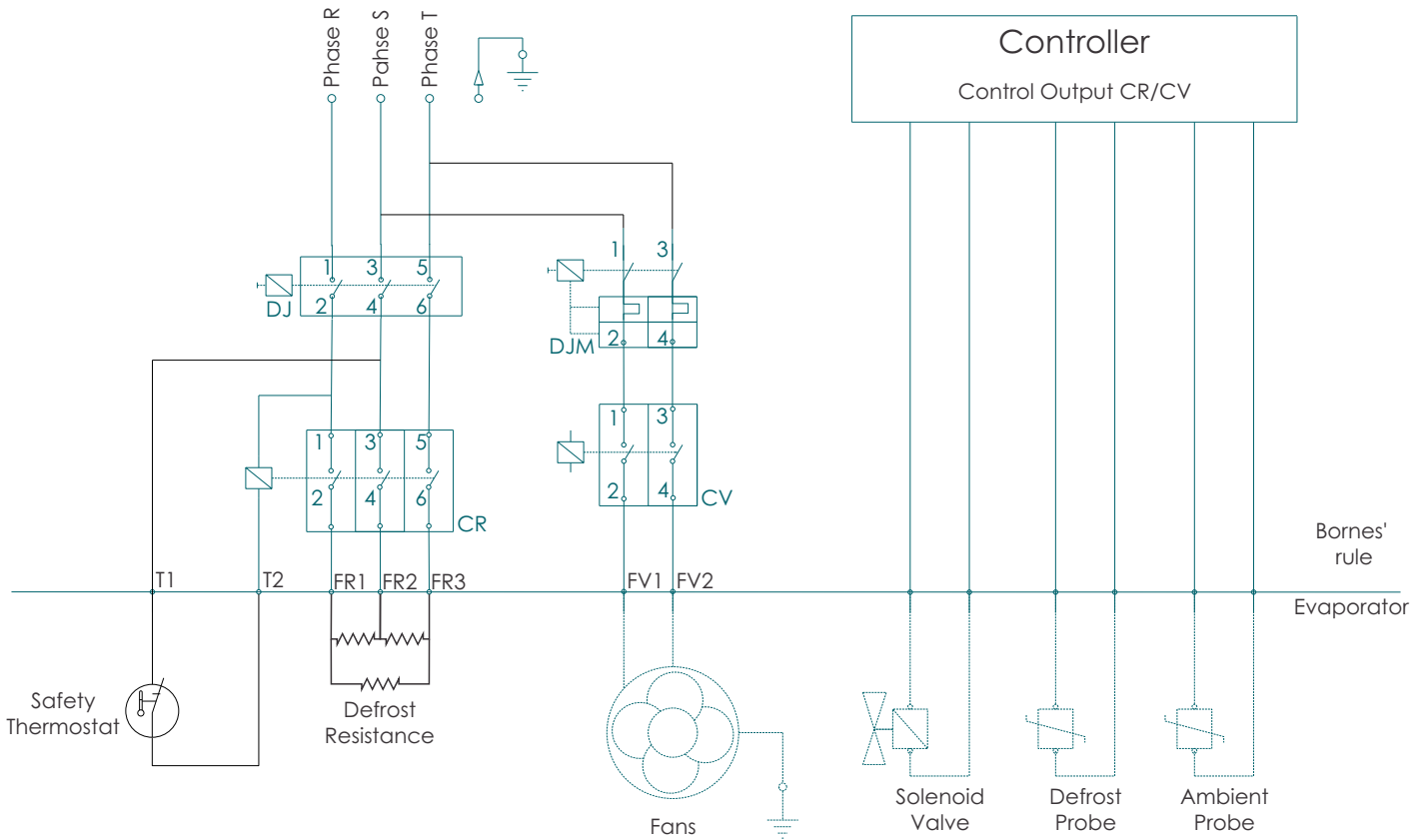
Mi GS300	Fan Icon	Quota	Gross
		L mm	Weight Kg
0019	1	704	7,7
0037	2	1067	14,7
0055	3	1430	20,1
0073	4	1793	24,9
0092	5	2156	31,8
0111	6	2519	37,5
0130	7	2882	45,4
0148	8	3245	53,1

Model	Description	Available Option
GS3	Low Profile Air Forced Evaporator 300mm	
A	Spacing between fins	G • 6mm
A	Defrost	A • By Air E • Electric F • Electric in the Tray G • Gas evaporator and Tray H • Gas evaporator and electric in the tray I • Gas in the evaporator
0019	Model	0019 - 0037 - 0055 - 0073 - 0092 - 0111 - 0130 - 0148
C	Tubes	C • Copper
A	Connection and tray	A • Direct Expansion M • Direct Expansion and over tray
00	Accessories	00 • Without accessories 01 • Expansion valve 02 • Solenoid valve 11 • Expansion valve and expansion valve
A	Finishing	A • Aluminum Cabinet B • Aluminum cabinet and fins N1 protection C • Aluminum cabinet and fins N2 protection D • Aluminum cabinet protected E • Al. cabinet protected and fins N1 protection F • Al. cabinet protected and fins N2 protection
MAA	Motor	MAA • AC fan with aluminum propeller MAP • AC fan with plastic propeller ESM • ESM engine
G	Voltage and Frequency	G • 20V/1F/50Hz N • 230V/1F/60Hz
1	Packing	1 • Crate 2 • Box (siding) 5 • EPE + Filme PVC

Defrost 1F 220V 50/60Hz • Fan 1F 220V 50/60Hz (1 and 2 motor fans)



Defrost 3F 220V 50/60Hz • Fan 1F 220V 50/60Hz (3 to 8 motor fans)



Subtitles:

- K1 = Contact of the fans
- K2 = Contact of Resistances
- DJ = Circuit Breaker
- DJM = Motor circuit breaker

Attention:

- To dimension the components of the installation, consult the catalog data tables.
- To change the factory supply, contact our engineering.
- Safety probe preventing high temperature. Install in the adjusted electrical panel MAX: 40°C
- Always use the ground wire.

Mipal Indústria de Evaporadores Ltda., (Mipal), warrants its product for workmanship and material for a period of three years from time of purchase, for the first buyer (user). In no circumstances that period will be longer than forty two months from manufacture time, there included the legal period, taken that the product has not been misused, abused, correctly installed and that its operational condition fits Mipal's technical recommendations.

This guaranty prevails if the equipment is to be operated in full conformity with Mipal's installation and/or maintenance instructions. Warranty rules out equipment repair or installation by others or outside Mipal's premises (except for jobs executed by Mipal itself) or inappropriately operated or subjected to misuse, negligence, imprudence or lack of expertise.

Mipal, at its exclusive judgment, will repair or otherwise replace at no charge to the original buyer a product or any product component which was or has been impaired due to faulty manufacture, project or inadequate choice of material, except those due to regular operation. And this will prevail if none of the below described actions may have been discarded:

- Product application according to original prescriptions;
- Every installation instruction and product prescribed operative condition has been abided to;
- Installation components and piping system kept in pace with the latest state of the art as to HVAC concepts;
- Every brazed junction has been carried out along with nitrogen or inert gas flow inside the pipework or product mounting.

In every case modern industrial installation, maintenance and operation practices shall have been effectively employed by certified technicians, engineers, designers and every personnel involved in the job.

Regular product, or its moving parts, repair, maintenance and installation correction will not be covered by this guaranty, and neither will it cover damages incurred during transport or movement of the product once out of Mipal's hands.

Third party components and parts such as: valves, motors, resistors and electrical accessories that integrate Mipal's products will be generally warranted by their respective suppliers or manufacturers usually for a year period in the case of mechanical parts or a semester for electrical, if that be the case.

Products guaranties will be suspended should there be any misuse or maltreat, electrical voltage fluctuation, aggressive environment, pressure in excess, accidental crash, mechanical damages (internal or external) due to irregular operation or installation or other inadequacies or even if simply operated out of Mipal's recommendations. Mipal will also waive guaranty in the case of defaced or removed product or part serial number.

And again, Mipal will not be deemed responsible for caused damages due to an unauthorized third party job our unauthorized job serviced on its products or even if not genuine parts have been mounted in the product.

If a product is to be sent for re-servicing, a document called: "call back authorization" must be issued by Mipal prior to its dispatch. Transport should be CIF Mipal, back and forth, totally on Client's expenses. Mipal will analyze the damage, or Client's complaint, and in the case that the fault stems from manufacture causes, the product will be repaired, or replaced, free from charge to the first buyer, except for transportation charges as stated above.

The problem report, must be sent by mail, phone or fax, sent to Mipal, not later than two days after the event has taken place and time must be granted to Mipal so that its support team may properly define the procedure that best sorts out the matter.

As pointed out above there must be a "call back authorization" document accompanying the cargo so that things will be readily attended by the factory.

Every cost involved in the repair or replacement of the product, such as freight, customs, exchange, will be at customer's expense.

Mipal will also not be held responsible for any cost incurred to remove, reinstall or whatever to have the product brought to any point which is made necessary.

After product reception and inspection, Mipal will at its discretion decide which steps to take in order to solve the situation, be it replacement or repair. At the time the product is ready for dispatch Mipal will advise the customer who from then on will provide for the return of the product to its premises at its own cost. This encompasses Mipal's warranty fulfillment.

In case of no inherent fault due to factory or any other cause described in the conditions of purchase, Mipal may send quotation for its repair or else ask the sender to retrieve the product at its expenses.

Mipal will not accept any responsibility regarding resultant consequences due to alteration on or repair of its product either by the purchaser or a third party, without previous Mipal's acknowledgement.

Mipal reserves its right to inspect the product during the guarantee period in case there have been hints of equipment irregular operation or installation not in accordance with the state of the art. Also in the case of alleged faulty operation or misunderstanding over the correct expectation over the equipment result, Mipal will intercede over the matter.

Disclaimer

Every Mipal's intervention on a purchaser's complaint of any equipment or part supplied will encompass exclusively either replacement or repair of the supplied item, FOB Cabreúva, SP, Brazil, at its own convenience. In no circumstance will Mipal be liable to any further claim on losses which may be deemed to have arisen from causes linked with its products or parts. These losses may be taken as, but not limited to, because unpredictable by Mipal: refrigerant, stored goods, sales, unfulfilled orders, profits, incomes, and all items that represent marginal financial losses, each or all of them might be conceived as stemming directly, or indirectly, from the fault occurred in Mipal's product or part thereof, or even from its alleged inefficacy.

Since 1956 Mipal are writing the history of refrigeration. With a complete line of condensers, evaporators and finns for the most varied commercial and industrial applications, stands out in the market by the high quality and efficiency in our products.

That's why it's growing in large scale it's presence in other countries.

This is the result of dedication for innovation and attention to our customers. That's why the Mipal brand it's too strong, becoming a synonym of technology and reliability.

INTENSE

Mipal developed the Intense system with electronic motor fans and the concept of intense thermal exchange, improving the efficiency in finned equipments. This represents one more innovation from Mipal, aligned with world trends for maximum performance and low energy consumption.