

## Electronic Regulator-Protector

**Digital**  
with microprocessor

**IDEAL FOR:**  
**Home Refrigerators**  
**Home Freezers**  
**Cold Water Fountains**  
**Ice Makers**  
**Bottle Containers**  
**Executive Refrigerators**

# RGM-XX0

# RGC-1Hx



**BREAKERMATIC® RGM-1Hx** and **RGC-1Hx** is a Regulator-Protector for Refrigerators, designed with the purpose of stabilizing and extending the voltage range to operate refrigeration equipment.

It adjust the voltage rising or reducing the input voltage in steps, thus keeping the output within a safe range for the refrigerator. In addition, it protects your equipment, turning it off automatically if the tension line overpasses the input ranges that can be handled for the regulator.

To guarantee the protection of the refrigerator's compressor, it will remain off for approximately 3 minutes, even after the failure condition is over on the feed line, this cycle guarantees the compressor to remain off, giving the system enough time to stabilize its pressure. It admits a wide range of voltage input (80V-155V) maintaining the output within the safe margin of the regular use compressors' operation (95V-133V).

We recommend its use in zones that suffer from voltage variation or where the use of a conventional protector, produces the repetitive disconnection of the equipment during long intervals of time, preventing the

equipment from cooling properly.

The Electronic Regulator-Protector is available in three models: **RGC-1H4**, **RGC-1H3** and **RGM-1H2** that cover the following load ranges: ¼ HP, 1/3 HP and even ½ HP respectively. It is also available in 220V for air conditioners and commercial refrigeration equipment until 1HP.

**BREAKERMATIC® RGM-1Hx** is the digital version of the **RGC-1Hx**, a Regulator-Protector for Refrigerators, designed with the purpose of stabilizing and extending the voltage range to operate refrigeration equipment. It's controlled by a microprocessor featuring fast response time and smart selection of the amplification step. The output voltage is statistically centered around the nominal voltage, avoiding the operation near the edges of the output range. Also it features an autotest function that guarantees an output voltage within the safe range under all conditions, including a fail of the regulator.

*Check the technical specifications on the reverse for more details.*

# BREAKERMATIC®

the best line of electronics protectors ...

Electronic  
Regulator-Protector

**RGM-XX0**  
**RGC-1Hx**

MODELS:

**RGC-110 1H4 / RGC-110 1H3**  
**RGM-110 1H2/RGM-110 200**  
**RGM-220 090/RGM-220 200/RGM-220 250**

**Regulators-protectors of 110V:**

**RGC-110/1H4** (1/4 H.P., 15A), for refrigerators up to 15 feet.  
**RGC-110/1H3** (1/3 H.P., 15A), for refrigerators up to 27 feet.  
**RGM-110/1H2** (1/2 H.P., 15A), for commercial refrigerators.  
**RGM-110/200** (up to 20A), for commercial refrigerators.

**Regulators-protectors of 220V:**

**RGM-220/090** (1/2 H.P., 9A), for commercial refrigerators up to 1/2 H.P. and air conditioners up to 15.000 B.T.U.  
**RGM-220/200** (1H.P., 18A), for commercial refrigerators up to 1 H.P. and air conditioners up to 24.000 B.T.U.  
**RGM-220/250** (1 1/2 HP, 25A), for commercial refrigerators up to 1 1/2 H.P. and air conditioners up to 30.000 B.T.U.

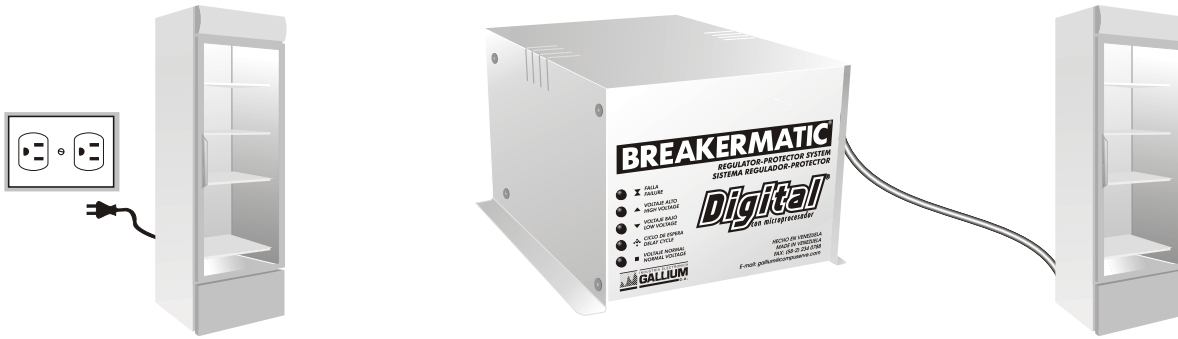
APPLICATION:

**DOMESTIC - COMMERCIAL**

CATEGORY:

**REGULATOR-PROTECTOR**

## INSTALATION AND WIRING DIAGRAM:



**1** Unplug your refrigerators.

**2** Plug the **BREAKERMATIC® Regulator** into AC receptacle.

**3** Plug your refrigerator into the **BREAKERMATIC® Regulator** AC receptacle.

<b>SERIES CHARACTERISTICS* RGM-XX0. Y RGC-1Hx.</b>	<b>RGC-110 1H4</b>	<b>RGC-110 1H3</b>	<b>RGM-110 1H2</b>	<b>RGM-110 200</b>	<b>RGM-220 090</b>	<b>RGM-220 200</b>	<b>RGM-220 250</b>	<b>UND.</b>
<b>Nominal Voltage</b>	220	110	120	120	220	220	220	VAC
<b>Input voltage range</b>	175-270	85-155	75-155	75-155	160-270	160-270	160-270	VAC
<b>Output voltage range</b>	200-240	100-130	95-133	95-135	190-240	190-240	190-240	VAC
<b>Max Cap. of refrig. compressor</b>	1	1/3	1/2	1	1/2	1	1 1/2	H.P.
<b>Maximum output current</b>	15	9	15	20	9	18	25	A
<b>Delay-on-make time</b>	240	240	240	180	240	240	240	sec.
<b>Minimum operation voltage</b>	-	-	55	55	100	100	100	VAC
<b>Response time</b>	0.9	1.5	0.9	0.9	0.9	0.9	0.9	sec.
<b>Dimensions</b>	Length	230	144	195	215	215	215	mm.
	Width	165	141	135	135	135	135	mm.
	Height	143	95	110	135	110	135	mm.
<b>Weight</b>	7.5	3.46	6	8	6	7.5	9.6	Kg.
<b>Operating temperature range</b>	0-65	0-65	0-65	0-65	0-65	0-65	0-65	°C

\*Technical specifications will vary according to the model and could be changed without notice.

