



SERIES

# GF C

**Electronic Carel**

Electrical panels for three-phase cold rooms

**COMPLETE  
PANEL BOARD SERIES**

The SERIES GF electrical panels have been designed for the management and control of complete Three-phase cold rooms. It is the ideal solution for those who want to combine maximum operational efficiency and ease of use. The versatility of this SERIES is even more appreciable. In fact, the customer will be able to request the electronic that best suits their needs by choosing from different brands of leading companies in the sector. Maximum efficiency and versatility of assembly to guarantee an excellent relationship between costs and benefits.

The use of electronic thermals and magnetothermic protections makes it possible to manage multiple applications with very few codes.

GF4 C \_ GF12 C \_ GF16 C \_ GF25 C \_ GF40 C \_ GF50 C

PANEL CODE	GF4 C	GF12 C	GF16 C
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DESCRIPTION	GF4 C	GF12 C	GF16 C
	Electric panel for three-phase cold rooms complete with compressor with adjustable range with electronic thermal from 1... 4A.	Electric panel for three-phase cold rooms complete with compressor with adjustable range with electronic thermal from 3... 12A.	Electric panel for three-phase cold rooms complete with compressor with adjustable range with electronic thermal from 4... 16A.

#### TECHNICAL FEATURES

ELECTRONIC	Carel	Carel	Carel
BOX SIZE	370*275*175 mm	370*275*175 mm	370*275*175 mm
BOX SIZE COMPLETE WITH DOOR LOCK	370*275*175 mm	370*275*175 mm	370*275*175 mm
WEIGHT	5Kg	5Kg	5Kg
BOX LEVEL OF PROTECTION	IP65	IP65	IP65
RELATIVE HUMIDITY OF THE ENVIRONMENT	<90% RH	<90% RH	<90% RH
STORAGE TEMPERATURE	-10÷+60°C	-10÷+60°C	-10÷+60°C
WORKING TEMPERATURE	-5÷+45°C	-5÷+45°C	-5÷+45°C
SUPPLY	400V AC ±10% 50-60Hz	400V AC ±10% 50-60Hz	400V AC ±10% 50-60Hz
COMPRESSOR PROTECTION	Electric thermal relay	Electric thermal relay	Electric thermal relay
GENERAL PROTECTION	Standard Thermoswitch	Standard Thermoswitch	Standard Thermoswitch
SIGNALING AND ALARM	Led+Display	Led+Display	Led+Display

#### INPUTS

CELL PROBE	NTC 10 Ohm 1%	NTC 10 Ohm 1%	NTC 10 Ohm 1%
EVAPORATOR PROBE	NTC 10 Ohm 1%	NTC 10 Ohm 1%	NTC 10 Ohm 1%
KWIWAN INPUT	Standard	Standard	Standard
HIGH/LOW GENERAL PRESSURE SWITCH INPUT	Standard	Standard	Standard
MICRO DOOR	Standard	Standard	Standard



PANEL CODE	GF4 C	GF12 C	GF16 C
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#### OUTPUT

COMPRESSOR	Three-phase adjustable range from 1...4A	Three-phase adjustable range from 3...12A	Three-phase adjustable range from 4...16A
CONDENSING FANS	850W single-phase	850W single-phase	850W single-phase
ELECTRIC DEFROSTING	10500W three-phase	10500W three-phase	10500W three-phase
EVAPORATOR FANS	850W single-phase	850W single-phase	850W single-phase
SOLENOID FAN	Standard	Standard	Standard
OIL COMPRESSOR RESISTANCE	Standard	Standard	Standard
LIGHT CELL	850W single-phase	850W single-phase	850W single-phase

#### OPTIONAL ACCESSORIES

RS485\*\*

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GF4 C \*



GF12 C \*



GF16 C \*

\* **Accessories:** fixing brackets provided  
 \*\* **Communication card for supervision**

All products have the possibility of customization with your own brand.  
 Customization requires a minimum of lots to be established at the order stage.

PANEL CODE	GF25 C	GF40 C	GF50 C
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DESCRIPTION	GF25 C	GF40 C	GF50 C
	Electric panel for three-phase cold rooms complete with compressor with adjustable range with electronic thermal from 6... 25A.	Electric panel for three-phase cold rooms complete with compressor with adjustable range with electronic thermal from 10... 40A.	Electric panel for three-phase cold rooms complete with compressor with adjustable range with electronic thermal from 12.5... 50A.

#### TECHNICAL FEATURES

ELECTRONIC	Carel	Carel	Carel
BOX SIZE	370*275*175 mm	600*400*200 mm	600*400*200 mm
BOX SIZE COMPLETE WITH DOOR LOCK	370*275*175 mm	600*400*235 mm	600*400*235 mm
WEIGHT	13Kg	23Kg	26Kg
BOX LEVEL OF PROTECTION	IP65	IP65	IP65
RELATIVE HUMIDITY OF THE ENVIRONMENT	<90% RH	<90% RH	<90% RH
STORAGE TEMPERATURE	-10÷+60°C	-10÷+60°C	-10÷+60°C
WORKING TEMPERATURE	-5÷+45°C	-5÷+45°C	-5÷+45°C
SUPPLY	400V AC ±10% 50-60Hz	400V AC ±10% 50-60Hz	400V AC ±10% 50-60Hz
<b>COMPRESSOR PROTECTION</b>	<b>Electric thermal relay</b>	<b>Electric thermal relay</b>	<b>Electric thermal relay</b>
<b>GENERAL PROTECTION</b>	<b>Standard Thermoswitch</b>	<b>Standard Thermoswitch</b>	<b>Standard Thermoswitch</b>
SIGNALING AND ALARM	Led+Display	Led+Display	Led+Display

#### INPUTS

CELL PROBE	NTC 10 Ohm 1%	NTC 10 Ohm 1%	NTC 10 Ohm 1%
EVAPORATOR PROBE	NTC 10 Ohm 1%	NTC 10 Ohm 1%	NTC 10 Ohm 1%
KWIWAN INPUT	Standard	Standard	Standard
HIGH/LOW GENERAL PRESSURE SWITCH INPUT	Standard	Standard	Standard
OIL DIFFERENTIAL PRESSURE SWITCH INPUT	Standard	Standard	Standard
MICRO DOOR	Standard	Standard	Standard



PANEL CODE	GF25 C	GF40 C	GF50 C
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## OUTPUT

COMPRESSOR	Three-phase adjustable range from 6...25A	Three-phase adjustable range from 10...40A	Three-phase adjustable range from 12,5...50A
CONDENSING FANS	2 from 1200W single-phase 1 from 2000W three-phase	2 from 1200W single-phase 1 from 2000W three-phase	2 from 1200W single-phase 1 from 2000W three-phase
ELECTRIC DEFROSTING	18000W three-phase	22000W three-phase	33000W three-phase
EVAPORATOR FANS	1 from 1200W single-phase 1 from 2000W three-phase	3 from 1200W single-phase 1 from 2000W three-phase	3 from 1200W single-phase 1 from 2000W three-phase
SOLENOID FAN	Standard	Standard	Standard
OIL COMPRESSOR RESISTANCE	Standard	Standard	Standard
LIGHT CELL	Standard (Voltage free contact)	Standard (Voltage free contact)	Standard (Voltage free contact)

## OPTIONAL ACCESSORIES

RS485\*\*

✓

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✓



GF25 C \*



GF40 C \*



GF50 C \*

\* Accessories: fixing brackets provided  
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