

# PROPlus 3PH

Electronic Panels for the control of refrigerated facilities with three-phase condenser units

**AKO**  
we make it easy



# PROPlus 3PH

Electronic panel for three-phase condenser units

## Standard advanced functionality

Application in positive and negative refrigerated services with three-phase condenser units and single-phase condenser fans, with thermal protections, safety pressostat and pump down (low pressure). PROPlus 3PH operating panels integrate the same equipment for small and large facilities in both positive and negative cold room stores.

- Easy installation and start-up from the graphic display
- 3 NTC inputs with product control, defrost, logging and temperature functions
- Auxiliary output for connection to speed regulator for condenser or connection of more powerful condenser fans
- High quality graphic display with intuitive menus and help texts to make programming easier
- Easy installation due to its inner work space
- Main switch for maintenance work accessible from the front
- Defrost control (by compressor stopping, air, resistors)
- Wall assembly
- ON/OFF button and turning lights on accessible from the front panel

**INTEGRATED  
SOLUTION IN A  
SINGLE DEVICE**



# Robust, simple and safe device

Integrates protection, handling control and temperature logging

Following the strategy of increasing and improving solutions for the Refrigeration sector, **AKO** has developed a new family of electronic power control panels. The new three-phase **PROPlus 3PH** optimise in a single device the integrated control, power and logging solutions, achieving extremely easy installation and usability.

The new panel family complies with the international requirements of the Industrial Refrigeration world, converting the **PROPlus 3PH** electronic panels into a first class product on the market.

**PROPlus 3PH** incorporates all key functions for the correct regulation of a refrigerated facility in a single category. In addition to the standard and advanced regulation functions for the compressor, it electronically incorporates the safety chain, data logging and HACCP, Modbus-RTU communications, graphic display and battery events logging (alarms and temperature), with a compact, aesthetic and modern design.

**PROPlus 3PH** will help to make much more interactive facilities thanks to coming equipped with a ModBus communication system, that allows being connected to our **AKONET** Control and Monitoring System, in both its Software version (AKO-5010), and Webserver version (AKO-5011), and also to our **GSM alarm** device, thanks to its voltage-free relay outputs.

## AKO's rational design

Three-phase **PROPlus 3PH** stands out with its attractive and functional design that transmits an image of technology, safety and robustness. With dimensions of 400x300x135 mm, it perfectly adapts to the rest of the controller and alarm range for cold room stores offered by **AKO**.



# PROPlus 3PH

High degree of protection in a broad assortment

## Highly accessible installation and configuration

Make reliable installations with the electronic panel for PROPlus 3PH three-phase condenser units. Electronic protection, control and data logging in a single solution that increases the flexibility of being able to work with a single unit that supports all your accessibility and navigation in a high quality graphic, multilanguage and state-of-the-art display.

Finish off the electronic panel range for single-phase and three-phase cold room stores of up to 7.5 CV offering one of the most advanced and complete solutions on the market thanks to its robust and innovative design. Rest assured that you offer a great solution for both medium and large-sized refrigerated facilities.



## Overview Table of protectors according to application

230 V (III)	400 V (III)	Circuit breaker
-	1/2 - 1	2,5 - 4 A
1/2 - 3/4	1,5 - 2	4 - 6,3 A
1 - 1,5	3 - 4	6,3 - 10 A
2	5 - 7,5	10 - 16 A

**This table is only an overview.**

If you are at the limit, we recommend passing to the follow adjustment. Bear in mind that the consumption of a compressor with the same CV is affected by the operating conditions (evaporation and condensation).



# AKOPRO

Finishes off the electric and electronic panel range



## For efficient facility control and protection

Finish off the range of solutions in electric and electronic panels for cold room stores and compressor stations. The most reliable, safe and comprehensive solution on the market:



### PROPlus

Electronic panels with circuit breaker protection for single-phase cold room store control

PROPlus, electronic panels with incorporated control and protection, designed for installation near to the enclosures, which can control and log data of single-phase condenser units up to 2CV. IP65 degree of protection



### PROMetal

Electric panels for three-phase condenser units and evaporators, with single-phase fans and three-phase resistors.

Metal casing and switchgear with vinyl synoptic of the refrigerated circuit. Three-position selector for condenser unit handling. Direct starter with thermal-circuit breaker for condenser unit.

# we make it **easy**

## **e**arnings

**AKO** solutions give our collaborators the capacity for generating profitable business with the best technical-financial offer.

## **a**ssessment

Our customers' needs are our main worry, and knowing them allows **AKO** to research and develop solutions with high added-value and reliability.

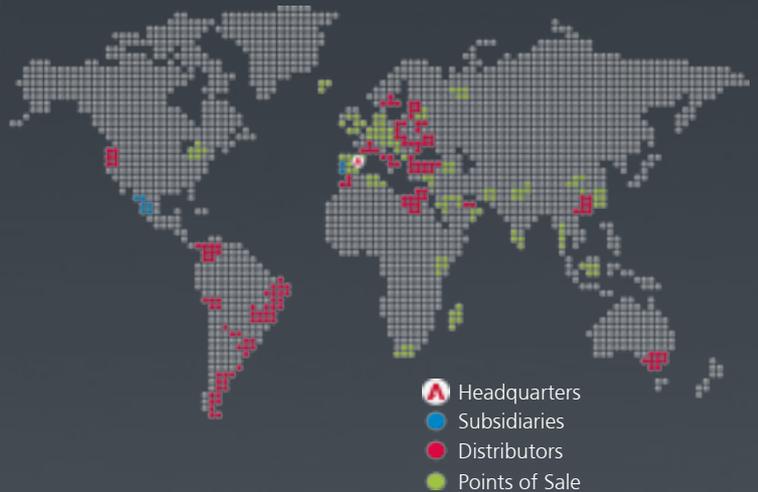
## **s**upport

Our experience has allowed us to form a team of in-house professionals to offer global support: from Project Design to the Start-up of the System.

## **y**ou

As the customer is our passion, it is also the driving force behind **AKO's** development to continue to innovate for the regulation and integral control of the refrigerated facilities.

## **AKO**WORLDWIDE



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Presence in over 80 countries



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