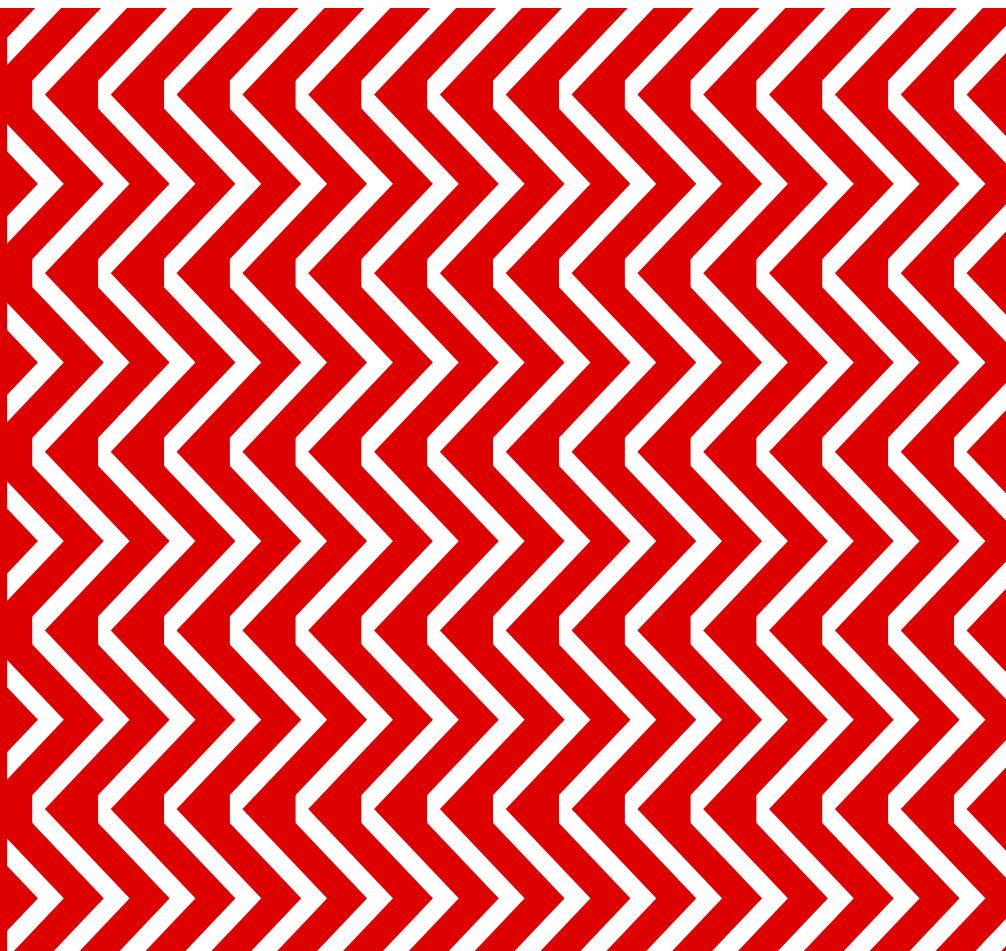


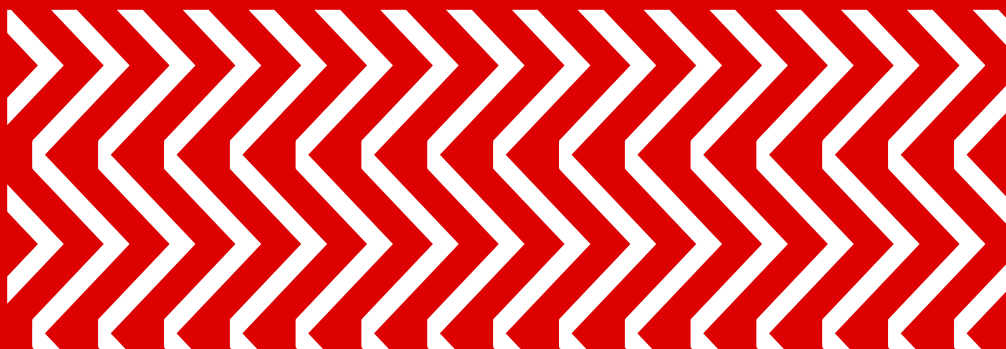


**TOTAL INGENIEROS S.A.C**

VENTAS, PROYECTOS, SERVICIOS EN INGENIERIA Y SISTEMAS DE REFRIGERACIÓN



**CAREL**



# MPXPRO



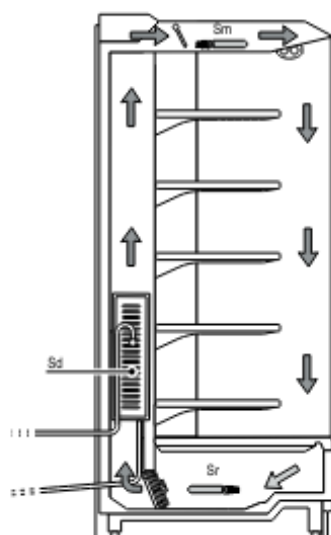


Fig. 1.b

**Key:**

Sm	Outlet probe	Sr	Intake probe
Sd	Defrost probe	E	evaporator
SV	Solenoid valve	EEV	electronic expansion valve

Below is a description of the series of components and accessories in the MPXPRO range:

**Master board (MX30M\*\*\*\*\*)**

Fitted with clock (RTC) and RS485 card, this can independently manage a refrigeration unit, synchronise events over a LAN and connect to a CAREL or Modbus\* supervisory network. Plastic spacers are provided for fitting the for electronic valve driver (EEV) expansion board or the 0 to 10 Vdc output expansion board.



Fig. 1.c

**Slave board (MX30S\*\*\*\*\*)**

Without clock (RTC) and RS485 card, these can manage a refrigeration unit without the supervisor and clock functions. Slave boards can be converted into Master boards by fitting in place (see photo) the RTC and RS485 interface card (MX30P48500) and setting a parameter (In). Plastic spacers are provided for fitting the EEV driver expansion board or the 0 to 10 Vdc output board.



Fig. 1.d

**Master/Slave boards (MX30\*25H00)**

With 2 PWM outputs and E2V driver board with 0 to 10 Vdc output incorporated.



Fig. 1.e

**Master/Slave boards (MX30\*24H00)**

With 2 PWM outputs and PWM driver board with 0 to 10 Vdc output incorporated.



Fig. 1.f

**Stepper EEV expansion board (MX30PST\*\*\*).**

Optional board for controlling a CAREL E<sup>2</sup>V electronic expansion valve driven by stepper motor. Model MX30PSTP0\* also has a 0 to 10 V modulating output for controlling the evaporator fans and anti-sweat heaters.

Available in version with ultracap technology to ensure the electronic valve closing in the event of power failure to avoid the installation of liquid solenoid valve.



Fig. 1.g

**PWM (Pulse-Width Modulation) EEV expansion board (MX30PPWM\*\*)**

Optional board for controlling an AC or DC PWM electronic expansion valve. Model MX30PPWM0\* also has a 0 to 10 V modulating output for controlling the evaporator fans and anti-sweat heaters.



Fig. 1.h