CAREL

MasterCella

New generation: know how, performance and design

MasterCella represents one of the leading products in the CAREL refrigeration range. When it was introduced to the market it marked a turning point within the industry. Today, thanks to the experience gained, *MasterCella* has been renewed and proposed to the market with an up-to-date design, closer to the customer's current expectations. The new generation *MasterCella* is the answer to the needs of integrated solutions for cold rooms.

- More space dedicated to the wiring;
- possible installation of a general switch;
- cable connection either from the top or bottom;
- clock for real time defrost;
- HACCP functions;
- easy customisation thanks to the removable front plastic particulars.

These innovative and functional characteristics make *MasterCella* the benchmark within the refrigeration market.

Technology & Evolution

MasterCella

General hardware characteristics

- Buzzer as standard on all models;
- possibility on all models to connect NTC temperature probes (type HT, max 150 °C);
- digital inputs configurable for the connection of NTC probes;
- infrared option for using the remote control;
- real time clock for the defrost and HACCP functions;
- possibility to download/read the parameters via a programming key;
- 230 Vac versions with built-in transformer or 115/230 Vac switching power supply
- high-efficiency green LED display with icons;
- large space inside to house the general switch or other auxiliary devices.

General software characteristics

- Condenser probe management;
- all the functions of ir33 range;
- smart defrost with different operating modes;
- management of HACCP functions;
- possibility to configure the auxiliary relay as a second delayed compressor;
- easy display interface and programming access;
- pump-down management;
- automatic procedure for assigning the serial network addresses;
- keypad lock for individual functions or buttons;
- 2nd evaporator defrost management;
- neutral zone management;
- settable up to 6 different programming set of parameters in the same control.

Codes

	OUTPUTS					INPUTS					HACCP	programming key	PLUS					
	compressor	defrost	evaporator fan	aux 1	light / aux 2	ambient temperature	defrost temperature	digital input/ probe 3	digital input/ probe 4	digital input/ probe 5	HACCP	programming key	high efficiency display	buzzer	infrared	real time clock	optional "hot point" display terminal	optional RS485 board
MD33A0EN00	16 A			8 A	16 A	●	●	●	●	●		●	●	●			●	●
MD33A2ER00	30 A			8 A	16 A	●	●	●	●	●		●	●	●	●		●	●
MD33A5ER00	30 A			8 A	2HP	●	●	●	●	●		●	●	●	●		●	●
MD33D0EN00	16 A	16 A	8 A	8 A	16 A	●	●	●	●	●		●	●	●			●	●
MD33D0EB00	16 A	16 A	8 A	8 A	16 A	●	●	●	●	●	●	●	●	●	●	●	●	●
MD33D2EN00	30 A	16 A	8 A	8 A	16 A	●	●	●	●	●		●	●	●			●	●
MD33D5EN00	30 A	16 A	8 A	8 A	2HP	●	●	●	●	●		●	●	●			●	●
MD33D5EB00	30 A	16 A	8 A	8 A	2HP	●	●	●	●	●	●	●	●	●	●	●	●	●
Models with port lock switch																		
MD33D0FB00	16 A	16 A	8 A	8 A	16 A	●	●	●	●	●	●	●	●	●	●	●	●	●
MD33D5FB00	30 A	16 A	8 A	8 A	2HP	●	●	●	●	●	●	●	●	●	●	●	●	●

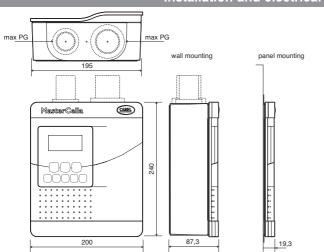**Note:** all the models can be powered at 230 Vac.

Options

IROPZKEY00: programming key with battery
IROPZKEYA0: programming key with power supply
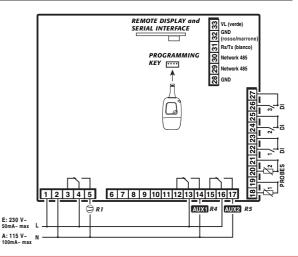**PSOPZPGR00:** programming kit

IROPZSEM10: RS485 serial card
IROPZSEM30: RS485 serial card and manages repeater display
IRTRRES000: remote control

Installation and electrical wiring diagrams

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