



# ir33+ FMC High Efficiency Solution for Embraco Fullmotion Compressor



ir33+ Wide for Embraco Fullmotion compressors simplifies the use and management of variable speed compressors for all customers on the commercial refrigeration market.

### Simple to use

Significant variations in compressor capacity and enormous energy reductions can be easily achieved by setting a couple of parameters.

The dedicated PWM frequency output and simple parameter configuration can be used to configure an individual speed table for:

- plug-in islands and units
- catering and professional equipment
- ice cream coolers
- small cold rooms
- wine coolers
- showcases

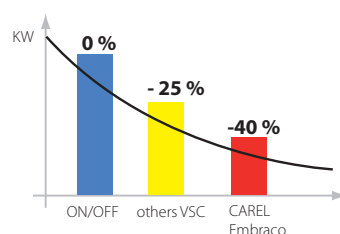
### Complete solution

All the knowledge and experience we have acquired from the market and our current ir33+ platform are included and combined together in this controller. Temperature, defrost and fans are managed, functions that are already appreciated on the market. New features in this range are:

- Embraco Fullmotion management
- Special hot gas defrost management
- Pull Down management

### High performance

Due to the high efficient Embraco Fullmotion compressor and the use of our ir33+ Wide, significant reductions in energy consumption can be achieved.



- huge OPEX reduction
- up to 40% energy savings
- fast cooling by Pull Down management
- system and temperature stability
- noise reduction with BLDC technology
- precise defrost management
- eco friendly with the use of natural refrigerant



## Configuration

The controller has 3 relays and 1 x 0 – 12V PWM output especially for the Embraco Fullmotion compressor inverter.  
 2 NTC probes and 2 digital inputs (configurable as probes)  
 The AUX relay is configured as “Drain Heater”

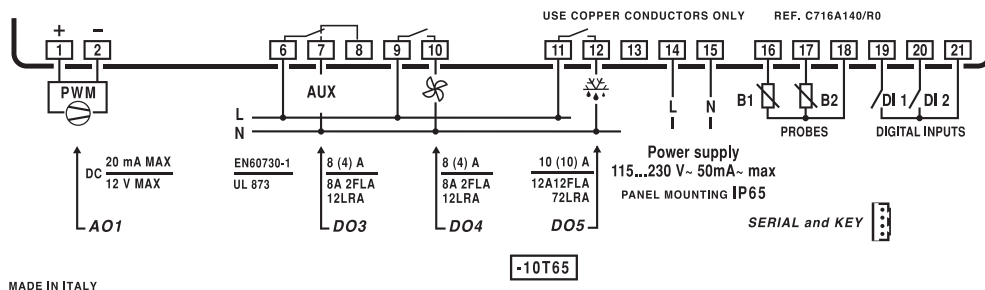
## Display

The display of ir33+ is 30% larger than standard displays and shines brighter with 7 segment pure green display.

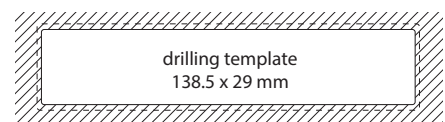
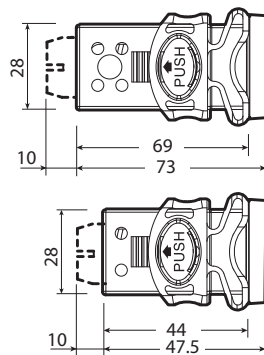
## Table of part numbers

	power supply	inputs	outputs				terminals	LEDs	RTC	VCC
					aux1	PWM				
PBF3D0HCHG	115...230Vac	2 NTC 2 DI	2HP	8A	8A	20 mA 12VDC	spade & plug-in	green	✓	✓

## Electrical wiring



## Faceplates and drilling templates



### Environmentally friendly

with the use of Embraco R290 compressors and our high efficient control solution



### Capacity modulation

Frequency controlled inverter technology together with a high efficient control solution grant massive OPEX reduction.



### Simple to use

Through parameters and a pre- configured controller for high efficient applications.

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