



For commercial monoblock
units

Optimised solutions for cold
rooms

Monoblock solutions for cold rooms

iJF has been designed to offer monoblock unit manufacturers a ready-to-use solution, ideal for controlling plug-in units for commercial cold rooms intended for food storage. Its wide range of controllers and user interfaces, modern design, and advanced connectivity make iJF the optimal control solution for commercial refrigeration.

Wide range of controllers and displays:

- Panel and split controllers to suit different design requirements for wall- or ceiling-mounted units.
- Range of high-brightness touchscreen interfaces, offering different options for both entry-level and premium versions.

iJF draws on CAREL's long-standing expertise in the refrigeration market, offering key technological advancements to tackle today's and tomorrow's main challenges.

Certified for use with A3 refrigerants (such as propane) and featuring numerous options for improving energy efficiency, iJF is the ideal choice for designing low environmental impact units.



Advanced connectivity: simplified installation and continuous monitoring

iJF is the ideal solution for monoblock units serving commercial cold rooms. Advanced NFC and Bluetooth® connectivity, combined with CAREL apps for OEMs, installers and end users, delivers high usability standards and simplifies design, installation and parameter optimisation processes.

Discover our apps



CONTROLLA



APPLICA



A2L & A3 ready

Controllers and interfaces compatible with flammable refrigerants, simplifying the unit certification process.



Flexibility

A broad selection of controllers and user interfaces to suit different design and assembly requirements for monoblock units.



Connectivity and security

Wireless NFC and Bluetooth® technology for simplified interaction with the unit via apps, with profiled access to prevent unauthorised configuration changes.

Smart refrigeration for sustainable food preservation

The iJF is the ideal solution for food storage, thanks to precise temperature control logic and a dedicate option for the humidity management.

It supports both single- and multi-circuit configurations, with direct control of ON/OFF and variable-speed (VCC, serial or frequency) compressors, allowing uniform design across an entire monoblock range.

Intelligent defrost management, using hot gas or electric heaters, is designed to minimise consumption and temperature fluctuations, ensuring continuous and optimal food preservation.



Multi-circuit
ON/OFF
and VCC
management



Modulating
load control



Precise
control of
temperature
and humidity



Optimised
hot-gas and
electric defrost
management

Customised solutions

The iJF range, extending the standard offer, allows customisation of the commercial proposal through aesthetic personalisation of the user interface and apps, together with the option to implement bespoke control logic to maximise each manufacturer's experience.

For advanced implementations or functions not fully managed by the iJF platform, CAREL's offer extends to the new pYC mini programmable controller line, providing total customisation through the STone programming tool.

Discover the pYC
mini range



 **Stone**

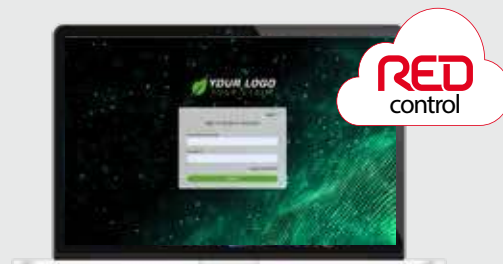
Remote monitoring and optimisation



Local supervision systems with data
logging and alarm notification



Integrated BMS for simplified
connection to supervision systems



RED control cloud portal for 24/7 unit
monitoring

Available versions

Specifications	small		large		XL	
Model	Panel	Split	Panel	Split	Horizontal panel	Vertical panel
						
	all-in-one	stand-alone or connected to HMI (small/large/XL)	all-in-one	stand-alone or connected to HMI (small/large/XL)	all-in-one	all-in-one
Power supply	100–240 Vac – Option: High/low voltage protection + Zero crossing					
Display	Up to 6 customisable buttons	-	Up to 8 customisable buttons	-	Up to 6 customisable buttons LED status bar	
Analogue inputs	up to 2 temperature probes		up to 3 temperature probes		Up to 2 temperature probes;	
Ingressi digitali	1 multifunction input; 1 voltage-free contact					
Uscite digitali	Up to 4 relays		Up to 6 relays		Up to 5 relays	
Connettività	NFC, Bluetooth, RS485					
Funzionalità extra (mutuamente esclusive)	VCC serial					
	Control of modulating loads (VCC frequency, EC fans, dimmable LED lights, ...)					
	Humidity management					
	Fieldbus – optional m/s network on request					

Optional user interface (HMI) for SPLIT versions

Caratteristiche	small	large	XL orizzontale	XL verticale
Model				
	display only			
Power supply	12 Vdc (supplied by the controller)			
Analogue inputs	-	1 temperature probe	-	
Digital inputs	1 multifunction input	1 multifunction input; 1 voltage-free contact	1 multifunction input	
Connettività	NFC and Bluetooth			

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CAREL

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