

iJS for scientific applications

iJS was created to equip the best OEM machines, offering a new platform with CAREL's extensive know-how on electronic controls. A dedicated usability design and specific options to ensure top-level reliability and performance, combined with a comprehensive IoT offer, make iJS the best choice for the scientific refrigeration sector.

New historical data storage function: goodbye manual management

- maximum and minimum temperature automatically historicised
- historical blackout events and alarms always available and ready for export
- up to 5 months of historical details stored in IJS memory.

iJS is the new CAREL control platform designed for scientific applications. It builds on CAREL's extensive know-how in the professional and commercial refrigeration market, expanding its offer with significant technological developments.

Numerous functions are dedicated to scientific applications to ensure maximum final solution stability.

Various integrated options are also available to improve energy efficiency, storage quality and reduce the environmental impact of the unit operation.

iJS makes connectivity one of its winning cards with the integrated NFC and Bluetooth antennas for interaction with local apps and the ability to interface with dedicated cloud portals via Carel gateways thanks to the onboard RS485 port.





Usability

Dedicated keyboard to simplify everyday interactions. Enhanced user experience through the use of specific apps.



Reliability

Extreme reliability thanks to the integrated battery module to ensure temperature monitoring even during power outages.



Features

Dedicated logics for managing specific technical solutions for applications operating at ultra-low temperature (<-50°C).



Refrigerators

System reliability under all conditions

IJS is the ideal solution to achieve energy efficiency and reliability targets for refrigerated units. IJS, within the IJ product platform, stands out thanks to dedicated functionality for scientific applications, such as:

- Dedicated simple and intuitive keyboard to complete daily operations as required by the regulations
- Bluetooth connectivity for fast history exporting
- Monitoring of temperature, blackout events and alarm list
- Integrated battery backup that keeps the IJS control active even during a power failure to ensure temperature monitoring under all
- UltraLowTemperature ready with logic for managing cascade circuits and related alarms, as well as compatibility with specific probes for <-50°C applications.



Ultra-low temperature freezers



Quick and easy adoption of VCC solutions



Modulating load control



Accurate humidity control



connection



Integrated battery backup port



Simply connected



The unit in your hands thanks to dedicated apps, Applica and Controlla, with Bluetooth and NFC connectivity



END USER









With remote monitoring Unit control 24/7, thanks to the dedicated cloud portal, RED control

Available versions

Characteristics	small		large		
Model	Panel mounting	Split	Panel mounting	Split	
	all in one	stand-alone operation or coupled with HMI small	all in one	stand-alone operation or coupled with HMI small or large	
Power supply	100-240 Vac				
Display	Up to 6 customisable buttons	-	Up to 8 customisable buttons	-	
Analogue inputs	up to 2 temperature probes		up to 3 temperature probes		
Digital inputs	1 multifunctional temperature probe; 1 voltage-free contact				
Digital outputs	Up to 4 relays		Up to 6 relays		
Connectivity	NFC, Bluetooth, RS485				
Extra (mutually	Serial VCC				
exclusive) functionality	Modulating load control				
	Humidity management				
	Backup battery NEW				

Optional user interface for SPLIT versions

Characteristics	small	large		
Model	НМІ	НМІ		
	display only			
Power supply	12 Vdc (supplied by the control unit)			
Analogue inputs	-	1 temperature probe		
Digital inputs	1 multifunctional probe	1 multifunctional probe; 1 voltage-free contact		
Connectivity	NFC and Bluetooth			

Headquarters

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