

The complete solution for compact and efficient compressor racks

µRack provides all the functionality for controlling condensing units and small compressor racks, ensuring reliability, efficiency and ease of use.

Key Features

- Control of 2 suction lines, up to 6 compressors in total and first modulating compressor on each line;
- control of a condensation line: EC modulating fans and up to 4 ON-OFF fans;
- energy saving: floating suction and floating condensing setpoints;
- connectivity: Integrated BMS, NFC and Bluetooth.

 μ Rack was created to renew the proposal of controls for condensing units and small compressor racks. Usability has been revolutionised through state-of-the-art connectivity, which complements the precision control and energy-saving features developed and established in CAREL's range of compressor rack controllers.



- Support for different types of compressors. Pistons, scrolls.
- Dedicated functions for oil return. For protection of the compressors.
- Modulation of the cooling capacity. AC inverter, flow-rate setting and PWM with SSR.
- Complete suite of Software tools.
 For configuration of the controls
 from PC and on the production
 line



Compressor protection

Prevention of liquid return to the compressors with low overheating control to maximise machine reliability.



Interaction with mobile devices

Advanced connectivity and nextgeneration user experience. The simplicity and effectiveness of the configuration from smartphones and tablets can reduce the unit's initial start-up time and simplify maintenance activities.



Energy savings

Features such as floating condensation, fan modulation, and compressor speed regulation allow energy consumption to be minimised.



Distinctive element in the μ Rack range is wireless connectivity with NFC (Near Field Communication) and Bluetooth interface to interact with mobile devices via the CAREL App "APPLICA". This facilitates the operations of:

- parameter configuration;
- commissioning of the unit in the field;
- after-sales technical support.





Available versions

The new µRack proposal offers customers a scalable range with increasing numbers of I/Os and features. It thus turns out to be a reliable control for both super-compact condensing units and larger cooling capacities.

	U20R00MRK0380	U20R00MRK0390	U20R00MRK0300 + AX2000PD20030
	BBB ¹		JPROCK BABE BODO :
Digital outputs	5x SPST 5A	6x SPST 5A	5x SPST 5A, 1x SSR 0.4A
Analog outputs	2x 0-10 V	2x 0-10 V	2x 0-10 V
Analog inputs	3x NTC/PT1000 2x 0-5 V/4-20 mA/NTC 1x 0-10 V/NTC/0-5 V/4-20 mA/ PT1000	3x NTC/PT1000 1x NTC 2x 0-5 V/4-20 mA/NTC 1x 0-10 V/NTC/0-5 V/4-20 mA/PT1000	3x NTC/PT1000 1x NTC 2x 0-5 V/4-20 mA/NTC 1x 0-10 V/NTC/0-5 V/4-20 mA/PT1000
Digital inputs	5 voltage free	6 voltage free	6 voltage free
Power supply	24 Vac/Vdc	24 Vac/Vdc	24 Vac/Vdc
Connectivity	NFC + BLE	NFC + BLE	NFC + BLE
Serial ports	2 RS485	2 RS485	2 RS485
Mounting	panel	on DIN rail	on DIN rail
Remote display	-	-	AX2000PD20030
Alternative code w/o BLE	UROROOMRK0280	U20R00MRK0290	-

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