

High
Efficiency
Solutions.

CAREL



UltraCello platform
The innovative solution
for your cold rooms



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the innovative solution for your cold rooms

The new generation of controls based on latest CAREL technology and innovative mechanical concept. A wide range of controls, to fit all cold rooms needs in term of types, features, and size.

- Up to 6 relays (compressor, defrost, evaporator fans, light and 2 auxiliary outputs for additional features);
- Up to 4 temperature probes and humidity sensors;
- Temperature data logging (HACCP);
- Configuration through wizard, available on Service Tool (optional);
- Easily upgradable with expansion modules thanks to the new mechanical modular concept;
- DIN rail track for fast wall mounting.



Easy commissioning

- Configuration export:
- easy commissioning thanks to simple pre-setting navigation
 - possibility to connect a graphical display for a simple configuration wizard



USB

- Configuration export:
- After commissioning you can save parameters on USB key for your next cold room



HACCP

- Temperature data logging
- User can save data easily on a USB key

More sensing...

- Up to 4 temperature probes (NTC / PT1000)
- Intelligent logic based on average measurement of 2 temperature sensors
- Humidity sensor

More control...

- Controlling up to 2 additional features
- 2° compressor
- Pump down
- Condenser fan
- Humidification system
- Variable speed evaporator fans management



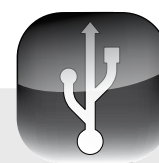
Easy to install

Thanks to track for DIN rail for fast wall mounting and standard screw fixing, more GND terminals for sensors and wide 7,5mm relay terminals and in voltage 230Vac relays.



Easy commissioning

Thanks to configuration through wizard, available on pGD1 Service Tool (optional) and to 10 preset receipts, inside as standard, for main food conservation room types.



Easy to use

Thanks to USB port to

- download temperature data logging (HACCP)
- download / upload receipts

Intuitive built-in HMI with big display.

easily upgradable with additional contents

UltraCella and its expansion modules are easy to assemble, on DIN rail directly or preassembled before mounting.

Wiring is comfortable thanks to 3 wide by-pass holes and IP65 of the complete set is granted.

One platform for all your applications

You can upgrade UltraCella with additional contents thanks to the new modular concept.

Ultra EVD module

- Easy assemble and connection to UltraCella granting the outstanding energy saving results of CAREL E^V
- Including internal power transformer



Ultra Power module

- Extremely flexible system to add electric devices or additional features
- Example of:
 - Circuit Breaker
 - Additional 3HP relay for compressor



UltraCella can drive remote 3ph power modules allowing to assemble power contactors close to condensing unit and evaporator.

Ultra 3ph evaporator module

- Evaporator from 6kW to 9kW



Ultra 3ph full module

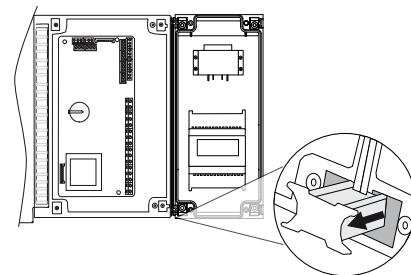
- Condensing unit from 4HP to 7.5HP
- Evaporator from 6kW to 9kW



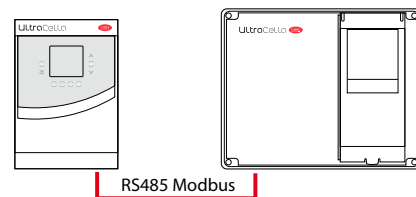
Example of UltraCella with Ultra EVD module and Power module



Connections

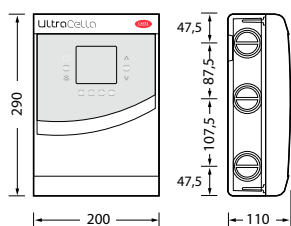


example with UltraCella + Ultra EVD module

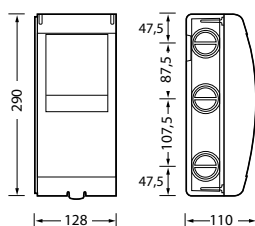


example with UltraCella + Ultra 3ph evaporator module

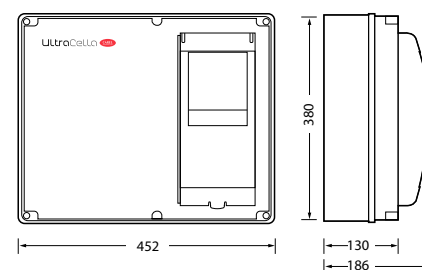
Dimensions (mm)



UltraCella








Ultra EVD module and Power module



Ultra 3ph evaporator module and Ultra 3ph full module

Main hardware characteristics of UltraCella

output							inputs								
Relays					Analog		Sensors				Digital inputs				
Compressor	Defrost heaters	Evaporators fans	light	AUX1	AUX2	Evaporators fans	B1	B2	B3	B4	B5	DI1	DI2	DI3	
 2 HP, 230 Vac	 2 HP, 230 Vac	 16 A, 230 Vac	 16 A, voltage free	8 A, voltage free		 0 to 10 V	NTC	NTC HT	PT1000	NTC	NTC HT	0 to 10 V	4 to 20 mA 0 to 5 Vrat	door switch	configurable

Example of possible configurations

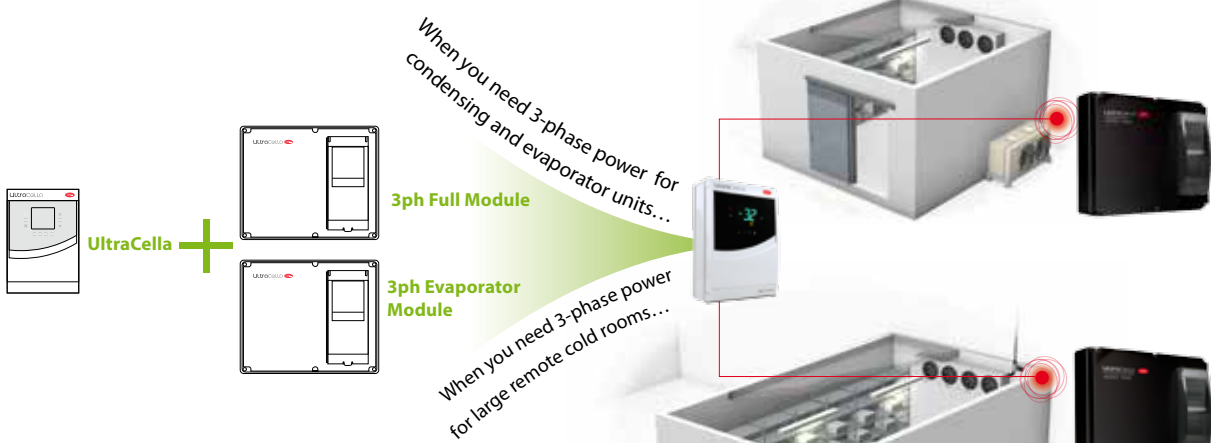
Up to 15 m³ volume, single phase, cooling capacity up to 2HP



Up to 20 m³ volume, single phase, cooling capacity up to 3HP



Up to 100 m³ volume, 3-ph, cooling capacity up to 7,5HP



Up to 200 m³ volume, 3-ph, evaporator up to 9 kW

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