Reftronix
..in control

Changing to CO_2 refrigerant

We make it easy!

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Next Generation CO_2 Control solutions

- Easy to use browser interface for commissioning and service (PC/Tablet/ Mobile)
- Integrated LAN cloud connection and Wi-Fi hotspot
- Integrated power backup (UPS)
- Bus communication with Invertek inverter, full integration
- BMS interface
- System Manager Integrated - Navigate from one controller webpage to another

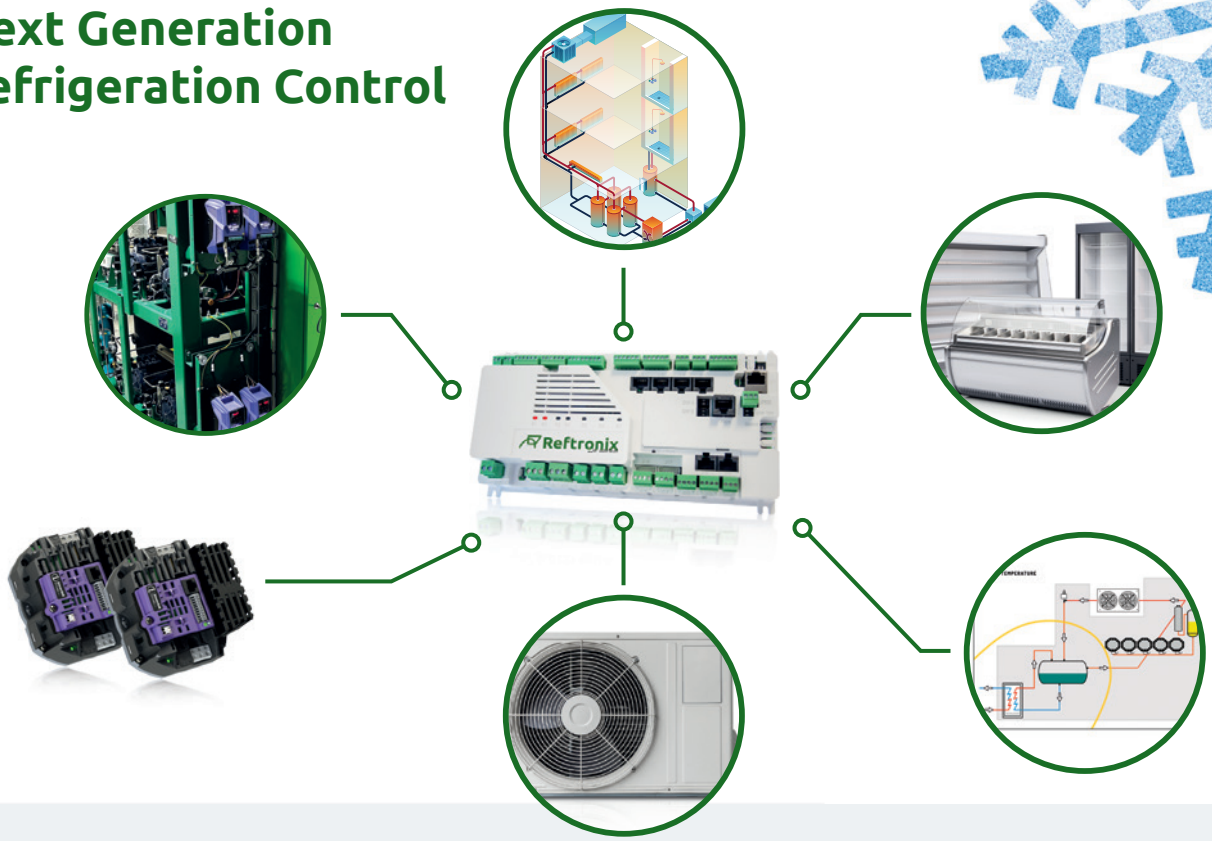
Secure Google hosted Cloud Solution

Google Cloud

- Available for all Reftronix products
- Unlimited data storage
- Up to 5 sec data sample frequency
- Change log
- User management
- Graph with alarms
- Full controller access
- Alarm management

The optimum choice for CO_2 refrigeration control

Next Generation Refrigeration Control



1. Condensing Unit Controller

- Two stage or single stage compressor
- Heat recovery
- Oil management
- Custom compressor map with compressor protection
- Two room controllers with EEV, thermostat, door, and defrost control

2. Chiller Controller

- DX chiller with one to five compressors with up to two inverters
- Flooded chiller with one to five compressors with up to two inverters
- Two user configurable thermostat controllers
- One user configurable PI controller
- Custom compressor map with compressor protection
- Freeze protection on both temperature and suction pressure

3. Pack Controller

- Up to 5 compressors for single suction group with up to two inverters
- Booster with max 4x2 compressors with up to four inverters
- Oil monitoring/safety
- Custom compressor map with compressor protection
- Two user configurable thermostat controllers
- One user configurable PI controller
- Heat Recovery

4. Room/Cabinet Controller

- Two room controllers with EEV, thermostat, door, and defrost control
- Two user configurable thermostat controllers
- One user configurable PI controller

Designed for ease of use

- Web interface for configuration
- Optimized for smartphone and tablet
- Integrated encrypted Reftronix cloud link

5. Heat Pump Controller

- High temperature air to water CO_2 heat pump
- Up to five compressors (Up to two inverter controlled)
- Optimized high pressure control
- Smart grid/load shedding (via cloud)

Specifications

Electrical

Power Supply	24 VAC ± 10% or 20 - 35 VDC or 100-265 VAC
Consumption	Max 40 VA @ 24 V and 30 VA @ 240 V
Power Backup	Super caps or external battery

Analog Input

Type	T1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12	NTC temperature: 10 kΩ at 25°C, -50-90°C
	T4	High NTC temperature: 50 kΩ at 25°C, 0-150°C
	P1, P2, P3, P4	Ratio metric pressure sensor (0 - 5 V) or (4 - 20mA)
Number		16

Analog Outputs

Type	0 - 10 VDC
Number	2
Resolution	8 Bit
Max Load	20 mA

Digital Inputs

Type	Dry contact, not isolated
Number	6

Digital Outputs

Type	RL1, RL3, RL5, RL7: 16A @ max 250 VAC / 16 A @ max 24 VDC
	RL2, RL4, RL6: 6 A @ max 250 VAC / 6 A @ max 24 VDC
Number	7

Dimensions

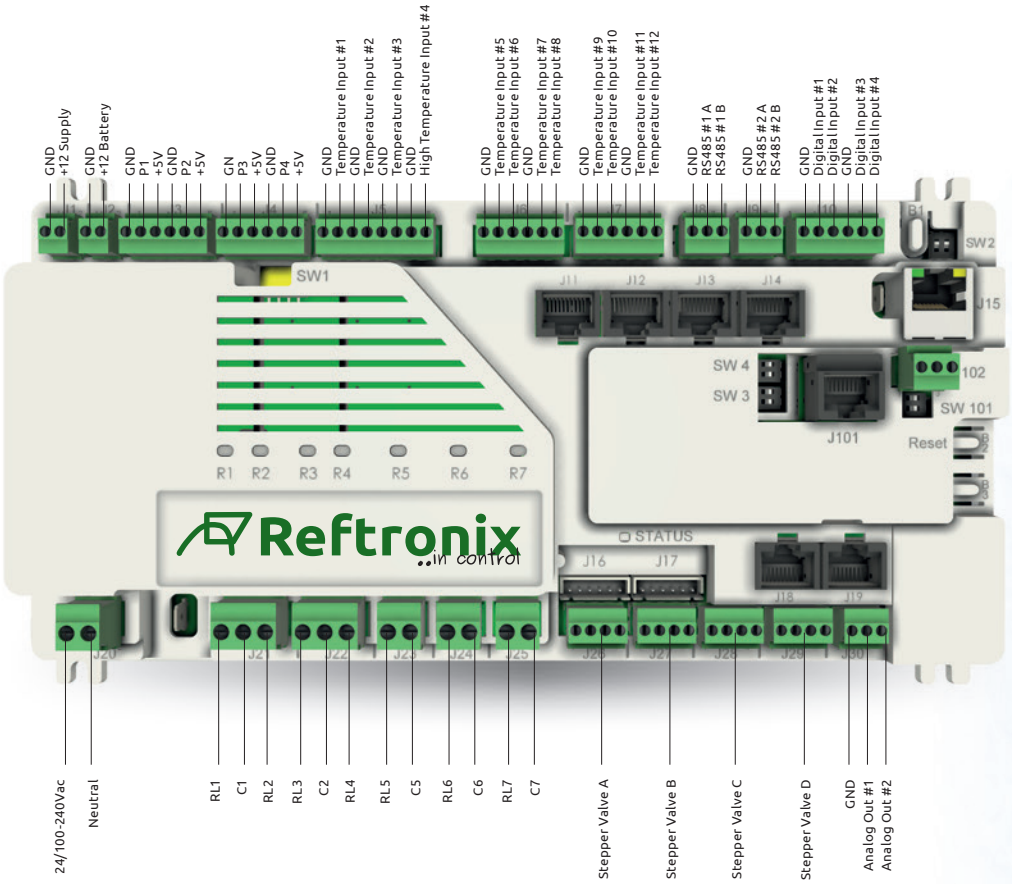
Height	134 mm
Width	241 mm
Depth	46 mm

Stepper Valves

Valve Type	Unipolar or bipolar
Number	4
Max current	400 mA per coil
Max cable length	50 meters

Other

Storage	-30-60°C, 90% RH non-condensing
Operating	-20-60°C, 90% RH non-condensing
Protection	IP00
Communication	2 RS485 ports (+1 with option card)
	1 Ethernet port
	1 Wi-Fi access point – 802.11 b/g/n
Real time clock	With option card
Certifications	EMC directive 2014/30/EU, LVD directive 2014/35/EU, Product standard: EN 60730-1:2016



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Comply with
F-Gas regulations &
Ecodesign directive

CE RoHS