CAREL

Heez

Efficiency and performance,
naturally connected

Heez for best-in-class coolers

Installable on both glass door and open front beverage coolers, Heez obtains significant energy results by reducing power consumption during steady operation and maximising pull-down performance after restocking or in busy times.

Main features:

- All-in-one control solution that optimises power consumption and performance thanks to DC inverter technology;
- Advanced wireless connectivity options with NFC and Bluetooth technology;
- Self-adaptive logic and advanced control algorithms;
- Significant energy results. tested by Regent.

Energy Consumption
0.85
kWh/day

EEI
-47%
compared with TOPTEN.eu best cooler average
Energy Efficiency Index

HRR
-62%
5 h VS 13 h
Half Reload Recovery

EN16902 - 25°C - 60% rH - K2 class
397 l gross volume cooler
tested by
REGENT

Heez, the new frontier in energy efficiency and performance

Heez is the new control solution for building beverage coolers with low power consumption and incredible temperature pull-down performance when restocking the beverages or changing from day to night mode. At the heart of this solution is rotary DC inverter technology, ensuring highly stable beverage temperature control and a dramatic decrease in cooler noise, while at the same time reducing overall dimensions so as to allow more space for the goods on sale.

Connectivity and IoT services

Heez ensures simple and intuitive interaction, with to integrated wireless connectivity that allows a smartphone to be used to easily access the main unit parameters and product documentation. Wireless connectivity, using NFC and Bluetooth technology, not only improves field service activities, but also allows the most significant data from the units to be acquired directly, extending the possibilities in terms of value-added services.

Efficiency

Day-night self-learning logic and advanced algorithms for detection of pull-down and defrosting.

Performance

Considerable reduction in pull-down times and control stability to guarantee the optimum product temperature during opening times.

Reliability

Advanced management of DC inverter compressors and synchronisation with the EEV to optimise operating conditions.

Heez user interface

- Backlit buttons and multi-colour icons
- NFC technology and Bluetooth option
- Numerous customisation options

Electronic expansion valve (EEV)

- Continuous equal percentage modulation
- Maximum performance during pull-down
- Compressor safety functions

Variable-speed EC fans*

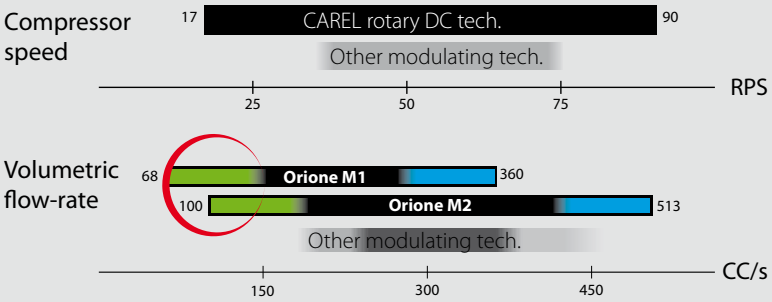
- Continuous modulation, synchronised with the compressor;
- Maximum performance during pull-down
- Low noise

** variable-speed fans are not included in the CAREL package. Heez can control both modulating AC and DC fans.*

Heez controller

- All-in-one control solution with inverter and built-in valve driver
- Direct 310 Vdc power supply and modulation for EC fans
- Wide range of input voltages, meaning a mains voltage stabiliser is not needed

Wide range of modulation range, guaranteeing efficiency and performance



R290 ROTARY DC INVERTER COMPRESSOR

QING AN

Maximum efficiency

- Best-in-class EEI results thanks to fewer ON/OFF cycles;
- Stable operation to guarantee optimal product temp.
- Smooth operation and less vibrations for greater reliability

Highest performance

- Incredible pull-down performance thanks to the high compressor speed
- Beverage temperature always in ideal conditions

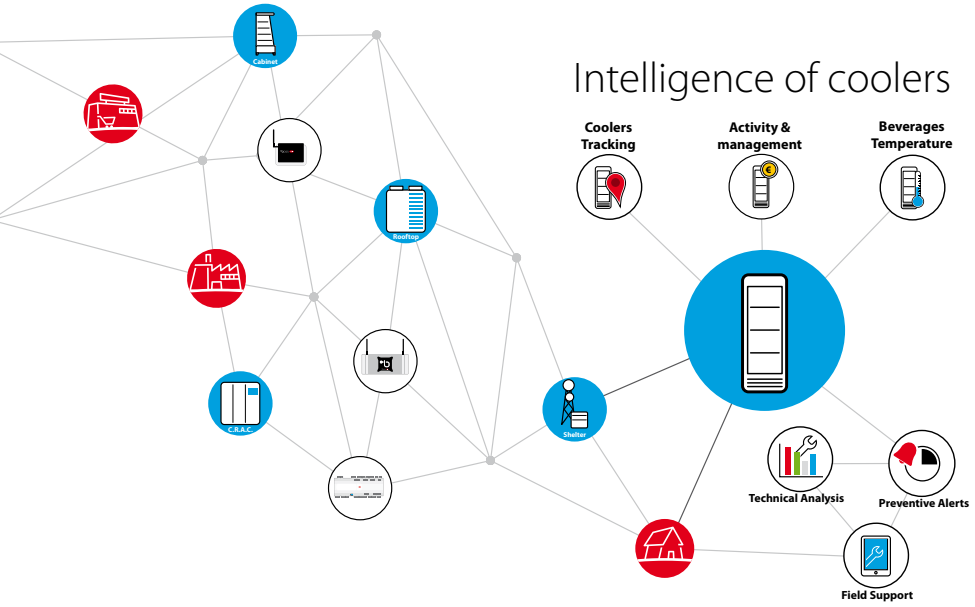
General information				
Compressor		Orione M1 R290 ROTARY DC INVERTER		
Controller		Heez control solution with active PFC		
Certification		UL/EN60335-2-34, with annex AA, CCC UL/EN60730, complete EMC compliance		
Application (MBP/HBP)				
Evaporation temperature (°C)		from -15 to +15		
Voltage/frequency range (V/Hz)		115-127 V; 220-240 V - 50/60 Hz		
Speed range (rps/rpm)		from 17 to 90 / from 1020 to 5400		
Cooling capacity range (W)		90-705		
Performance data (including electronic unit)				
Speed	rps/rpm	30/1800	60/3600	90/5400
Cooling capacity	W	208	460	705
Power consumption	W	122	222	336
COP	W/W	1.70	2.07	2.10
Test conditions		ASHRAE MBP - Evaporation temperature: -6.7°C; Condensing temperature: 54.4°C; Gas suction temp: 35°C; Liquid temp.: 46.1; Room temperature: 35°C		

Quick and easy installation

Low noise and vibrations

90% volumetric efficiency

Compact dimensions



ARMILLA

DATA management portal for beverage makers

Armilla is the new CAREL portal devoted to beverage companies and their partners.
It has been designed to optimise both market analysis and technical service. Armilla collects and presents all the data on graphs and dashboards. The original data are processed and transformed into useful warnings and information for making decisions regarding marketing strategies and technical service.

APPLICA

New user experience and field connection

- Dedicated app for quick and easy configuration;
- Product documentation updated and available at all times;
- Cloud services for advanced and flexible management of parameter lists and profiling activities;
- Real-time dashboard for cooler analysis and troubleshooting;
- Simple access to direct functions;
- Data logging for ARMILLA cloud services.

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