



Heosone

High-efficiency solution for propane plug-in units

Heosone, the high efficiency solution for propane plug-in units

Applicable on all refrigerated plug-in units, from the food retail market with small and medium-sized vertical showcases and chest freezers, to the food service market with refrigerated cabinets or counters and display cases. Heosone minimises environmental impact thanks to low energy consumption and the use of natural refrigerants, such as propane.

Ecodesign and energy labelling

These help guide the market in achieving the best results in terms of energy consumption and reducing environmental impact.

Professional refrigeration

- Ecodesign (EU) 2015/1095
- Labelling: (EU) 2015/1094

Commercial refrigeration (from 1 March 2021):

- Ecodesign (EU) 2019/2024
- Labelling: (EU) 2019/2018

Heosone is CAREL's new solution for high-efficiency units that operate on propane with DC inverter rotary compressors.

The wide range of modulation is managed by the inverter, which incorporates the unit controller. The inverter is also responsible for driving the electronic expansion valve, as well as the modulating DC fans, without the need for any external modules.

Heosone also allows simple interaction with the dedicated CAREL apps via NFC and Bluetooth® technology.

E²V stepper valve (optional)

- better cooling performance;
- compressor safety protection.



IP44



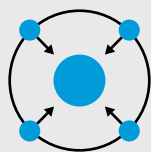
BOSS range

Commercial refrigeration



Wi-Fi gateway (optional)

- easy installation;
- no wiring required.



All-in-one solution

Heosone allows integrated management of the compressor, electronic valve and modulating DC fans via inverter with built-in controller.



High efficiency and performance

The wide range of compressor modulation ensures high efficiency in standard operation, as well as exceptional pull-down performance when required.



New user experience

New form of interaction with the refrigerated unit via dedicated apps for different types of users.

BLDC rotary compressor

QING AN

Designed exclusively to CAREL specifications



R290 DC rotary compressor
For medium and low temperature applications



E040	E057	E100
max speed 90rps		
810 W	1170 W	2080 W
420 W		730 W

MEDIUM temperature
T_{evap}= -5°C
T_{cond}= 40°C

LOW temperature
T_{evap}= -30°C
T_{cond}= 40°C

- Efficiency and performance**
Ensured by the wide range of speed modulation.
- Quick and easy implementation**
Through software optimisation, safety functions and extensive testing by CAREL.
- Compact dimensions**
Due to the high speed with DC inverter rotary technology.



User interface

- NFC and Bluetooth*;
- Customisation options.



Inverter & controller

- DC inverter control solution;
- high reliability.



Variable-speed EC fans (optional)

- high energy efficiency;
- low noise.



Professional refrigeration

Heosone FULL PACKAGE

Dual Mode

VARIABLE set point

3,99
kWh/day

Standard

FIXED set point

4,11
kWh/day

tested by

RE/GEN T

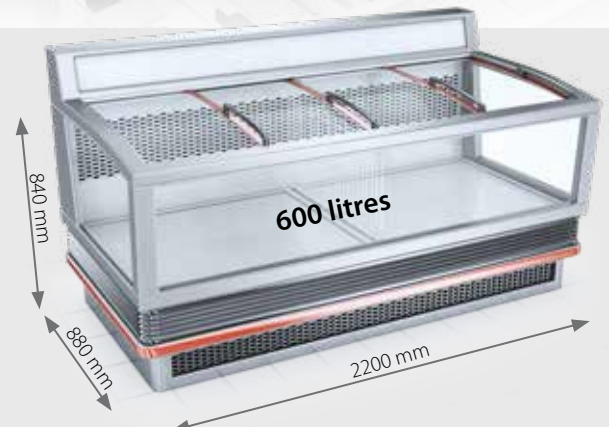
Re/genT experience

Equipped with:

- Heosone full package:
 - Qingan FC E100Y6T2 compressor;
 - Electronic expansion valve;
 - Heosone medium inverter;
 - DC condenser fans;
- R290, 150 g.

Test conditions in accordance with EN ISO23953

- Climate class 3
- Temperature class measured L1



A new user experience: APPLICA

APPLICA is the new app designed for service personnel and/or companies that is used to interact with the latest generation of CAREL parametric controllers equipped with NFC or Bluetooth technology.

Main features:

- connection via NFC and Bluetooth;
- rapid troubleshooting with information in real time;
- main temperature values, diagnostics and historical operating information;
- quick and easy parameter configuration;
- quick and easy configuration management.



Heosone packages available

Package	Basic	Advanced	Full
BLDC compressor			
Heosone driver			
Advanced HMI			
Electronic expansion valve			
Fans	-	-	Fan motors

Headquarters

CAREL INDUSTRIES HQs
Via dell'Industria, 11
35020 Brugine - Padova (Italy)
carel@carel.com



HygroMatik GmbH

Lise-Meitner-Straße 3
24558 Henstedt-Ulzburg - Germany
hy@hygromatik.de

RECUPERATOR

Via Valfurva 13
20027 Rescaldina (MI), Italy
customercare@recuperator.eu

For more information

- CAREL Asia - www.carel.hk
- CAREL Australia - www.carel.com.au
- CAREL Central & Southern Europe - www.carel.com
- CAREL Czech & Slovakia - www.carel.cz
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