

Technical Features

Refrigerator Net Storage Volume	240 lt (8,47 cu ft)
Freezer Net Storage Volume	140 lt (4,45 cu ft)
Refrigerator Temperature Range	0°C/+15°C
Freezer Temperature Range	-10°C/-30°C
Refrigerator Factory Set Point	+5°C
Freezer Factory Set Point	-30°C
Ambient Operating Temperature	+10°C/+38°C, 50% RH (N-ST Climate Class)
Noise Level	< 45 dBA

Power Supply	230V ±10% / 50Hz
Standard Electrical Plug	Schuko
Power Absorption	4,00 A
Daily Energy Consumption	3,7 kWh/24h (with +20°C ambient temperature)

External Dimensions	W 740 x D 880 x H 1970 mm W 29,13 x D 34,64 x H 77,55 inch.
Refrigerator Internal Dimensions	W 550 x D 550 x H 790 mm W 21,65 x D 21,65 x H 31,10 inch.
Freezer Internal Dimensions	W 550 x D 550 x H 470 mm W 21,65 x D 21,65 x H 18,50 inch.
Weight	165 kg

Packing Dimensions	Carton Box + Pallet: W 800 x D 900 x H 2150 mm, 180 kg Wooden Cage: W 900 x D 1000 x H 2350 mm, 225 kg
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External Surface	Anti-corrosion hot-dip galvanized steel sheet, covered with PVC film
Internal Surface	AISI 304 18/10 stainless steel
External/Internal Edges	Rounded to facilitate easy cleaning
Insulation Type	High-density CFC-free PUR foam
Insulation Thickness	90 mm on sides / 60 mm rear
Refrigerator Door Type	Double-layer glass, with self-closing system (with opening angle ≤90°), recessed groove handle, key-lock
Freezer Door Type	Solid, with self-closing system (with opening angle ≤90°), recessed groove handle, key-lock
Door Sealing	Magnetic silicone gasket placed all over the doors' frame
Lighting	Internal LED light inside both compartments, with automatic activation when the door is opened

Standard Configuration	- n°3 + n°2 PVC-coated steel wire shelves, adjustable in height, with max load of 35 kg each (Dimensions W 520 x D 520 mm) - n°4 swivel castors (front castors equipped with brakes) - n°2 portholes (Ø 25 mm), for introducing probes connected to external monitoring system/BMS - 7,2A backup battery with self-charging circuit (48 hours autonomy in case of power failure) - Volt-free contact for connection to an external alarm monitoring system - RFI filter
Max Shelves / Drawers	4 / 4 (or a mix of them) in refrigerator compartment / 3/3 (or a mix of them) in freezer compartment

Cooling System

Cooling	n°2 independent cooling circuits; forced-air cooling, with automatic shut-off of the evaporator fan during door opening
Compressors	n°2 fully sealed hermetic compressors (n°1 for each compartment) with thermal protector
Refrigerants (CFC/HCFC free)	- Refrigerator compartment: R600a (gr. 25) - Freezer compartment: R290 (gr. 78)
Defrosting Type	- <u>Refrigerator</u>: Fully automatic with evaporation of condensation water - <u>Freezer</u>: No-Frost (avoids the formation of frost through the non-excludable circulation of cold air inside)

HTS Control System

Controller	Microprocessor Controller
Display	5" TFT LCD touch screen display with 0.1°C resolution
Temperature Probes	n°2 NTC probes (for control) + n°2 Pt100 Class A (for monitoring)
Available Languages	Italian / English / German / French / Spanish / Danish / Croatian / Polish / Turkish / Dutch
Access Control	3-levels password security system (User/Service/Admin)
Data Export	USB, SD card

Features	- The main screen displays the temperature set point, high/low T limits, battery level, date/time, LED light ON/OFF switch - Possibility to view the real-time temperature graphs of both compartments on the display - Data logger function with automatic recording of temperature data (at 30-seconds intervals) and events - Internal memory (built-in 4GB SD card) capable of recording data for a minimum period of 10 years - Data history menu for consultation and selection of temperature data records, events and alarms of the device - Possibility to display the temperature in °C (standard) or °F - Fridge compartment safety thermostat with anti-freezing (factory pre-set at +2°C) & anti-heating (factory pre-set at +8°C) - In-built power stabilizer with linear voltage regulation (±20 Volts)
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Main Alarms List (Audio/visual notification)

- Power failure
- Door open (the alarm interval can be freely set by the user)
- High/Low temperature (alarm limits can be set freely by the user)
- Temperature probes failure
- Back-up battery failure / low charge

Standard Features



Adjustable wire shelf with fixing system



LED light



Swivel castors with brake



Int/Ext. Porthole



Door switch



Remote alarm contacts



HTS controller



Door gasket



Back-up battery

Optional Accessories Available On Request

Additional height-adjustable wire shelf made in PVC-coated steel (n°2 stainless steel guides included)



RS485 bridge module with serial port for PC/BMS connectivity



Perforated drawer (sliding on telescopic guides) made in AISI 304 18/10 stainless steel



RJ45 port for Ethernet connection (ModBus TCP/IP) to BMS for remote monitoring



Pt100 temperature probe enclosed in vial filled with glycol solution (for product simulation)



RJ45 port for connection to the free KW Cloud and APP (for remote monitoring, data downloading and setting alarm notifications via email in real time)



Double-track weekly cycle chart disk recorder (including n°52 spare paper disks + n°2 pens)



Wi-Fi connection module to the free KW Cloud and APP (for remote monitoring, data downloading and setting alarm notifications via email in real time)



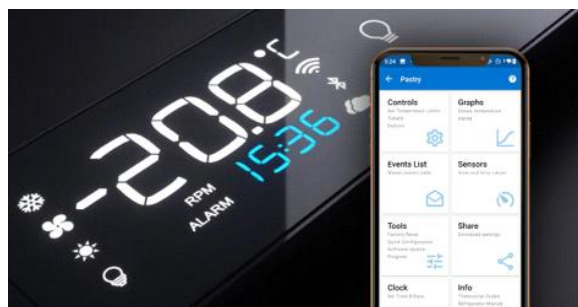
Voltage stabilizer



Packing in wooden cage



Cloud & APP Remote Control



ConneX is the free application (IOS/ANDROID) that allows end users to wirelessly monitor and control PL ADV/HTS controllers installed in refrigeration units. It allows complete control in real time and also remotely of one or more devices, to consult the weekly temperature graph (downloading the data in PDF/Excel format) and to receive alerts via push messages and email.



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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