

## Technical Features

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

<b>Power Supply</b>	230V ±10% / 50Hz
<b>Standard Electrical Plug</b>	Schuko
<b>Power Absorption</b>	4,00 A
<b>Daily Energy Consumption</b>	3,5 kWh/24h (with +20°C ambient temperature)

<b>External Dimensions</b>	W 740 x D 880 x H 1970 mm   W 29,13 x D 34,64 x H 77,55 inch.
<b>Refrigerator Internal Dimensions</b>	W 550 x D 550 x H 790 mm   W 21,65 x D 21,65 x H 31,10 inch.
<b>Freezer Internal Dimensions</b>	W 550 x D 550 x H 470 mm   W 21,65 x D 21,65 x H 18,50 inch.
<b>Weight</b>	160 kg

<b>Packing Dimensions</b>	Carton Box + Pallet: W 800 x D 900 x H 2150 mm, 175 kg Wooden Cage: W 900 x D 1000 x H 2350 mm, 220 kg
---------------------------	---

<b>External Surface</b>	Anti-corrosion hot-dip galvanized steel sheet, covered with PVC film
<b>Internal Surface</b>	AISI 304 18/10 stainless steel
<b>External/Internal Edges</b>	Rounded to facilitate easy cleaning
<b>Insulation Type</b>	High-density CFC-free PUR foam
<b>Insulation Thickness</b>	90 mm on sides / 60 mm rear
<b>Refrigerator Door Type</b>	Solid, with self-closing system (with opening angle ≤90°), recessed groove handle, key-lock
<b>Freezer Door Type</b>	Solid, with self-closing system (with opening angle ≤90°), recessed groove handle, key-lock
<b>Door Sealing</b>	Magnetic silicone gasket placed all over the doors' frame
<b>Lighting</b>	internal LED light inside both compartments, with automatic activation when the door is opened

<b>Standard Configuration</b>	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
<b>Max Shelves / Drawers</b>	4 / 4 (or a mix of them) in refrigerator compartment / 3/3 (or a mix of them) in freezer compartment

## Cooling System

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

## HTS Control System

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





**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

### Accessories Available On Request

---

Additional adjustable wire shelf in PVC-coated steel

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

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

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

Voltage stabilizer

RS485 bridge module with serial port for PC/BMS connectivity

RJ45 port (ModBus TCP protocol) for LAN connection to PC/BMS

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

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

Electrical outlet different from standard Shucko

Packing in wooden cage