

Technical Features

Refrigerator Nominal/Net Volume	300 lt (10,60 cu ft) / 273 lt (9,64 cu ft)
Freezer Nominal/Net Volume	300 lt (10,60 cu ft) / 273 lt (9,64 cu ft)
Refrigerator Temperature Range	0°C/+15°C
Freezer Temperature Range	-10°C/-22°C
Refrigerator Factory Set Point	+5°C
Freezer Factory Set Point	-20°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	6,5 A
Daily Energy Consumption	4,5 kWh/24h (with +20°C ambient temperature)

External Dimensions	W 710 x D 800 x H 2030 mm W 27,95 x D 31,49 x H 79,92 inch.
Refrigerator Internal Dimensions	W 590 x D 670 x H 690 mm W 23,22 x D 26,38 x H 27,16 inch.
Freezer Internal Dimensions	W 590 x D 670 x H 690 mm W 23,22 x D 26,38 x H 27,16 inch.
Weight	150 kg

Packing Dimensions	Carton Box + Pallet: W 800 x D 850 x H 2200 mm, 160 kg Wooden Cage: W 1000 x D 1000 x H 2400 mm, 200 kg
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External Surface	Satin-finished AISI 304 stainless steel
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	60 mm on sides / 60 mm rear
Refrigerator Door Type	Solid, 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°2 + n°2 PVC-coated steel wire shelves, adjustable in height, with max load of 35 kg each (Dimensions W 530 x D 650 mm) n°4 swivel castors (front castors equipped with brakes) 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	3 / 2 (or a mix of them) in refrigerator compartment - 3/2 (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: R455a (gr. 355) Freezer compartment: R455a (gr. 655)
Refrigerator Defrost System	Fully automatic with evaporation of condensation water
Freezer Defrost System	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 port SD card port
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)





TECNILABO

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 (dimension W 520 x D 620 x H 130 mm)

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

n°2 portholes (Ø 25 mm), one for each compartment, for introducing probes connected to external monitoring system/BMS

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