

Anexa tehnica lot 6

Frigider pentru reactive cu usa transparenta

Model: R1500V PL ADV Seria KLAB, producator KW Apparecchi Scientifici, Italia

Parametri solicitati	Parametri oferiti
Descriere Frigidere proiectate pentru a stoca produse de laborator, culturi și probe la temperaturi de obicei între 2 și 8 grade Celsius. Aceste frigidere constau în mod obișnuit dintr-o cameră cu un interior rezistent la coroziune (oțel inoxidabil de obicei), minimizarea riscului de alterare, contaminare și / sau coroziune a conținutului. Parametrul Specificația Configurație mobil Capacitatea internă a camerei 1500 L ± 10%". Număr de rafturi ≥ 10 Ușă Număr ≥ 1 Transparentă Mecanism blocare cu cheie Roți ≥ 4 Frâne ≥ 2 sau alt mecanism de blocare a mobilității Lumină interior Construcție interioară: oțel inoxidabil sau alte materiale anti-bacteriale prevăzute pentru prelucrare Construcție exterioară oțel inoxidabil sau cu acoperire anticorozivă Afișaj temperatură digital Alarmer acustică, vizuală Răcire ventilată Temperatura reglabilă +2°C ... +8°C Alimentare 220 V, 50 Hz Refrigerent fără CFC / HCFC	Descriere Frigidere proiectate pentru a stoca produse de laborator, culturi și probe la temperaturi de obicei între 2 și 8 grade Celsius. Aceste frigidere constau în mod obișnuit dintr-o cameră cu un interior rezistent la coroziune (oțel inoxidabil de obicei), minimizarea riscului de alterare, contaminare și / sau coroziune a conținutului. Parametrul Specificația Configurație mobil Capacitatea internă a camerei 1500 litri Număr de rafturi 6 Ușă Număr 2 (două) Transparentă obligatoriu, usi de sticla Mecanism blocare cu cheie Roți 4 Frâne 2, pe roțile din fata Lumină interior obligatoriu Construcție interioară material anti-bacteriale prevăzut pentru prelucrare - AISI 304 18/10 stainless steel Construcție exterioară anticorozivă - Satin-finished AISI 304 stainless steel Afișaj temperatură digital Alarmer acustică, vizuală Răcire ventilată Temperatura reglabilă +0°C ... +15°C, din uzina vine setata la +5C Alimentare 220 V, 50 Hz Refrigerent fără CFC / HCFC, R455a (gr. 500)

Technical Features

Nominal / Net Storage Volume	1500 lt (52,97 cu ft) / 1315 lt (46,44 cu ft)
Temperature Range	0°C/+15°C
Factory Set Point	+5°C
Temperature Uniformity	± 3°C
Temperature Stability	± 1°C
Ambient Operating Temperature	+10°C/+38°C, 50% RH (N-ST Climate Class)
Noise Level	< 42 dBA

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

External Dimensions	W 1460 x D 840 x H 2050 mm W 57,48 x D 33,08 x H 80,70 inch.
Internal Dimensions	W 1300 x D 670 x H 1510 mm W 51,18 x D 26,38 x H 59,45 inch.
Weight	230 kg

Packing Dimensions	Carton Box + Pallet: W 1500 x D 900 x H 2200 mm, 240 kg Wooden Cage: W 1650 x D 1000 x H 2400 mm, 340 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	80 mm on sides / 80 mm rear
(n°2) Door Type	Double-layer glass, with self-closing system (with opening angle ≤90°), ergonomic handle, key-lock
Door Sealing	Magnetic silicone gasket placed all over the door's frame
Lighting	LED light, with automatic activation when the door is opened

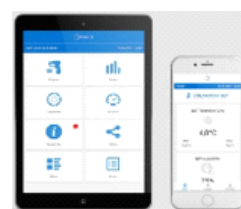
Standard Configuration	n°6 wire shelves made in PVC-coated steel, adjustable in height (Dimensions W 530 x D 650 mm) with max load 35 kg each n°4 swivel castors (front castors equipped with brakes) Porthole (Ø 25 mm) for introducing in the chamber independent probes connected to external monitoring system/BMS 2,7A backup battery with self-charging circuit (36 hours autonomy in case of power failure) Volt-free contact for connection to an external alarm monitoring system RFI filter
Max Shelves / Drawers	14 / 14 (or a mix of them)

Cooling System

Cooling	Forced-air cooling, with automatic shut-off of the evaporator fan during door opening
Compressor	Fully sealed hermetic compressor (1/3 HP) with thermal protector
Refrigerant (CFC/HCFC free)	R455a (gr. 500)
Defrost System	Fully automatic with evaporation of condensation water

PL ADV Control System

Controller	Microprocessor Controller
Display	LED display with 5-keys capacitive keyboard, with 0.1°C resolution
Temperature Probes	n°2 NTC probes (for evaporator / control) + n°1 Pt1000 (for monitoring)
Access Control	3-levels password security system (User/Service/Admin)
Connectivity	In-built Wi-Fi module for remote connection to mobile APP/Cloud The main screen displays the temperature set point, functional icons, current time, alarm events, LED light ON/OFF switch Data logger function with automatic recording of temperature data (at 30-seconds intervals) and events
Features	Flash memory capable of recording data for a minimum period of 1 year Safety thermostat with anti-freezing (factory pre-set limit at +2°C) and anti-heating (factory pre-set limit at +8°C) In-built power stabilizer with linear voltage regulation (±20 Volts) Possibility of remotely setting and modifying the device parameters and to view the temperature graph in real time Possibility to download data in CSV/PDF format via APP on smartphone/tablet/PC (no need for USB) Automatic sending of push notifications (via APP) and/or email (via Cloud) in the event of an alarm Possibility of setting automatic sending of weekly temperature and event reports via email
Remote Management and Monitoring with IOS/Android ConneX APP and/or KW Cloud	- Power failure
Main Alarms List (Audio/visual notification)	- 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





TECNILABO

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 with plexiglass front panel (dimension W 535 x D 635 x H 130 mm)

Perforated drawer (sliding on telescopic guides) in AISI 304 18/10 stainless steel, lockable for narcotics storage

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

Weekly cycle chart disk recorder (including n°52 spare paper disks + n°1 pen)

Voltage stabilizer

Electrical outlet different from standard Shucko

Packing in wooden cage

KLAB Series



1500 litres (glass doors)

700 litres (blind/glass door)

Refrigerators +5°C



 **BLUE**line

Refrigerators KLAB LIGHT series

**Blind
Door**

REFRIGERATORS +4°C WITH BLIND DOORS

MODELS	R400C	R700C	R1500C	R2300C
CAPACITY (lt)	400	700	1500	2300
EXTERNAL DIM. (WxDxH)	60x60x190 cm	71x80x200 cm	142x80x200 cm	216x80x200 cm
INTERNAL DIM. (WxDxH)	50x50x135 cm	59x68x140 cm	130x68x140 cm	204x65x140 cm
DOOR (n.)	1	1 or 2	2 or 3 or 4	3 or 4 or 5 or 6
WEIGHT (Kg)	120	140	220	290
SHELVES (n.)	3 adjustable	3 adjustable	6 adjustable	9 adjustable
INSULATION (mm)	50	60	60	60
DEFROST	Electric	Electric	Electric	Electric
CONTROLLER	SLC or NIA	SLC or NIA	SLC or NIA	SLC or NIA

Operation temperature: **+5°C**

Set T between **0°C and +15°C**

Power supply: V230/Hz50/1

**Glass
Door**

REFRIGERATORS +4°C WITH GLASS DOORS

MODELS	R400V	R700V	R1500V	R2300V
CAPACITY (lt)	400	700	1500	2300
EXTERNAL DIM. (WxDxH)	60x60x190 cm	71x80x200 cm	142x80x200 cm	216x80x200 cm
INTERNAL DIM. (WxDxH)	50x50x135 cm	59x68x140 cm	130x68x140 cm	204x65x140 cm
DOOR (n.)	1	1 or 2	2 or 3 or 4	3 or 4 or 5 or 6
WEIGHT (Kg)	125	150	240	330
SHELVES (n.)	3 adjustable	3 adjustable	6 adjustable	9 adjustable
INSULATION (mm)	50	60	60	60
DEFROST	Electric	Electric	Electric	Electric
CONTROLLER	SLC or NIA	SLC or NIA	SLC or NIA	SLC or NIA

Operation temperature: **+5°C**

Set T between **0°C and +15°C**

Power supply: V230/Hz50/1

Example of selection: R700C 2D = R (REFRIGERATOR) 700 (CAPACITY) C (CLOSED PANEL) 2D (No. 2 DOORS)