


MANUFACTURER

KW Apparecchi Scientifici S.r.l.

Via della Resistenza 119 - 53035 Monteriggioni (SI) - Italy

MODEL

KLAB F400C PL ADV

Upright Laboratory Freezer -20°C

TECHNICAL CHARACTERISTICS

Net Storage Volume	365 lt
Temperature Range	-10°C / -22°C
Ambient Temperature	+10°C / +35°C
Power Supply	230V / 50Hz
Daily Energy Consumption	5,40 kWh/24h
Noise Level	< 45 dB




STRUCTURE

Internal Surface	AISI 304 Stainless Steel	Internal Standard Shelves	n°3 grids in plasticized steel, adjustable in height
External Surface	Galvanized steel sheet	Door Type	One wing, solid type
External Dimensions	60 W x 62 D x 190 H cm		Key-lock system
Internal Dimensions	50 W x 53 D x 137 H cm		Self closing with opening angle <90°
Weight	84 kg	Door Sealing	Magnetic silicone gasket
Shipping Size (with wooden crate)	90 W x 90 D x 225 H cm	Standard Equipment	Auto shutdown of the fan whit door open
	150 kg		n°4 pivoting wheels (n°2 with brakes)
Int/Ext Edges	Rounded for easy cleaning		Int/Ext pass-through hole
Insulation	50 mm (High density PUR foam)		Internal automatic LED light

REFRIGERATION SYSTEM

Cooling System	Ventilated refrigeration for excellent internal temperature uniformity
Refrigerant Gas	R290
Condensing System	Hermetic compressor, with air condensation
Defrost	Automatic, with automatic evaporation of condensation water

DIGITAL CONTROL SYSTEM

PL ADV (Microprocessor technology)	  	
Display	Dual LED display - White and blue 7-segments display - 5 keys capacitive keyboard	
	Simultaneous display of the monitor probe and the set point	
Thermal Probes	n°1 RTD Pt 1000 + n°1 NTC	
T regulation accuracy	± 0.1°C	
Access Control	Access to controller functions via safety password (2-level security)	
Maintenance	Possibility of supervision and monitoring through registration on the free Cloud	
	On-site supervision via dedicated APP ConneX (iOS and Android) and web pages	
Special Functions	In the event of a faulty probe, the probe keeps the T on the average of historical cycles	
	Data logger function (Automatic recording of temperatures and alarms data > 1 year)	
	Buzzer with autosilence and reset function	
	Back-up battery with self-charging circuit (36 hours autonomy in case of power failure)	
Connectivity	Internal Wi-Fi module	Wireless programming of parameters
	Alert messaging by email	Receipt of the weekly graphic report by email
	Dry contacts for remote alarm signals	Data download via the ConneX APP (no USB needed)
Alarm List (Audio/Visual)	Power failure	System overpressure
	High/Low Temperature (freely settable limits)	Door open
	Faulty probes	No communication between motherboards
	High condenser temperature	Compressor timing failure
	Pressure switch intervention failure	Pressure transducer intervention failure

OPTIONAL ACCESSORIES AVAILABLE ON REQUEST

External surface in AISI 304 stainless steel (code: KLAB F400CX PL ADV)	Additional RTD Pt 100 probe
Additional plasticized steel grid shelf (max n°6)	Weekly cycle chart disk recorder (n°52 spare paper disks included)
Pull-out drawer in AISI 304 stainless steel (front panel in steel) (max n°6)	Ethernet connection kit
Pull-out drawer in AISI 304 stainless steel (front panel in plexiglass) (max n°6)	Electric lock for door opening with PIN