MANUFACTURER	
KW Apparecchi Scientifici S.r.l.	
Via della Resistenza 119 - 53035 Monteriggioni (SI) - Italy	
MODEL	
KFDE 350 PL ADV	
Upright laboratory freezer -14°C/-30°C	
TECHNICAL CHARACTERISTICS	
Net Storage Volume	225 lt
Temperature Range	-14°C / -30°C
Ambient Temperature	+10°C / + 35°C
Power Supply	230V - 50Hz
Daily Energy Consumption	0,716 kWh / 24h
Noise Level	< 39 dB

STRUCTURE			
Internal Surface	Thermoformed ABS	Internal Standard Drawers	n°7 (in transparent ABS)
External Surface	Galvanized pre-painted steel sheet	Insulation	70 mm (High density PUR foam)
External Dimensions	60 W x 63 D x 185 H cm	Door Type	One wing, solid type
Weight	75 kg		Key-locking system
Shipping Size (with wooden crate)	80 W x 85 D x 215 H cm	Door Sealing	Magnetic silicone gasket
	125 kg	Standard Equipment	Adjustable front feet / rear wheels
Int/Ext Edges	Rounded for easy cleaning		Int/Ext pass through hole

REFRIGERATION SYSTEM	
Cooling System	Fully sealed circuit with n°1 hermetic compressor
Refrigerant Gas	R600a
Evaporating System	Copper tube coil thermally connected to the outer peripheral surface of the inner case
Defrost	Manual

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	Battery failure

OPTIONAL ACCESSORIES AVAILABLE ON REQUEST	
Weekly cycle chart disk recorder (n°52 spare disks included)	Ethernet connection kit
Additional RTD Pt 100 probe	