MANUFACTURER	
KW Apparecchi Scientifici S.r.l.	
Via della Resistenza 119 - 53035 Monteriggioni (SI) - Italy	
MODEL	
WRV 180 HPL	
Refrigerated platelet incubator with forced air circulation	

TECHNICAL CHARACTERISTICS

Storage Volume	150 lt
T Range	+0°C / +45°C
T Set	+22°C ± 2°C
T Stability	< ± 1°C
T Uniformity	< ± 1°C
Power Supply	220/230V - 50/60Hz
Power Consumption	450 W
Noise Level	< 45 dB

STRUCTURE

Internal Surface	Stainless Steel AISI 304	Insulation	High density PUR foam (65 mm)
External Surface	White pre-painted steel sheet	Door Type	One wing, glass type, anti-fog
External Dimensions	65 W x 68 D x 110 H cm		Self-closing with opening angle <90°
Internal Dimensions	52 W x 47 D x 67 H cm		Auto agitation stop with open door
Weight	50 kg	Door Sealing	Magnetic silicone gasket
Shipping Size (with wooden crate)	90 W x 82 D x 130 H cm	Standard Equipment	Key-lock system
	110 kg		Automatic internal LED light
Int/Ext corners	Rounded for easy cleaning		4 pivoting wheels (front w/brakes)

REFRIGERATION SYSTEM

Cooling System	Air condensing unit, with expansion through capillary tube
Refrigerant Gas	R1233zd(e)

HEATING SYSTEM

Heating System	Heating is obtained with specific heating elements with low thermal density
Heat Exchangers	Placed in a separate area from the internal chamber, for an high uniform thermostating
Thermostatic Flow	Driven by a high efficiency helical fan

DIGITAL CONTROL SYSTEM

HPL **(High Performance Line)**	
Display	Display touch-screen TFT 7" - Microprocessor ARM9 technology (n°2 indipendent motherboards)
T regulation accuracy	± 0.1°C
Thermal Probes	n.2 thermal probes RTD Pt100 class A (n.1 for thermoregulation - n.1 for T alarm)
Available Languages	Italian / English / French / Spanish / German
Data Recording Format	SQLite (Tracer® software included for data reading)
Access Control	Access to controller functions via safety password
Maintenance	Possibility to connect remotely via IP address

Special functions	Real-time temperature graph on display
	Disaster recovery (the freezer continues to run even in the event of a CPU failure)
	Safety control (the freezer continues to operate even if the control probe breaks)
	Data logger function (Automatic recording of temperatures and alarms)
	Key test (the user can simulate alarm conditions with a simple key pressure)
	Info test (The functional test performed in the factory can be repeated by the user)

Connectivity	USB port	Ethernet port
	SD Card port	Dry contacts for remote alarms

Alarms list (Audio/Visual)	High/Low temperature	Faulty probes
	Power failure alarm with back-up battery	Compressor timing failure
	Door open	High temperature condenser
	High condenser pressure	Dirty condenser
	Battery failure	Communication failure with motherboards
	Pressure switch intervention failure	Pressure transducer intervention failure

OPTIONAL ACCESSORIES AVAILABLE ON REQUEST

n°4 pivoting wheels (n°2 with brakes)	Weekly cycle chart disk recorder (n°52 spare disks included)
Internal/external pass-through hole	Wi-Fi router
Additional RTD Pt 100 probe	