



a **TECNIPLAST** company

Technical Data Sheet

Biomedical Freezer -20°C/-40°C



MANUFACTURER

KW Apparecchi Scientifici S.r.l.

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

MODEL

KBPF 600 HGD HTS

Biomedical Freezer -20°C/-40°C

HS Code

84184080

TECHNICAL CHARACTERISTICS

Net Storage Volume

600 lt

Temperature Range

-20°C / -40°C

Temperature Uniformity

± 5°C

Temperature Stability

± 1°C

Ambient Operating Temperature

+10°C/+35°C, 60% RH

Power Supply

230V ± 10% - 50Hz

Maximum Absorbed Power

360 W

Daily Energy Consumption

5,20 kWh / 24h

Noise Level

< 45 dB

STRUCTURE

Internal Surface	AISI 304 Stainless Steel	Standard Adjustable Wire Shelves	n°5 in PVC-coated steel (max load 35 kg each)
External Surface	Galvanized steel with anti-bacteria coating	Door Type	Solid type, with integrated groove handle
External Dimensions	W 730 x D 933 x H 1985 mm		Self-closing system with opening angle < 90°
Internal Dimensions	W 550 x D 744 x H 1425 mm		Key-lock system (n°2 keys provided)
Weight	195 kg	Door Sealing	Magnetic silicone gasket
Shipping Size (with wooden crate)	W 900 x D 1150 x H 2400 mm	Standard Equipment	Auto-stop of air circulation when the door is opened
Int/Ext Edges	Rounded for easy cleaning		n°4 swivel castors (n°2 fronts with brake)
Insulation	90 mm (CFC-free high density PUR foam)		Internal/External porthole (Ø25 mm)
			Internal automatic LED light

REFRIGERATION SYSTEM

Cooling System	Forced air cooling with fully sealed system, hermetic compressor and air condenser
Refrigerant Gas	R290
Defrost	Fully automatic defrost system, with automatic collection and evaporation of the condensate water

DIGITAL CONTROL SYSTEM

HTS (Microprocessor Technology)		
Display	5" touch screen display	
Temperature Regulation Accuracy	± 0.1°C	
Thermal Probes	n°1 Pt100 + n°1 NTC	
Available Languages	Italian / English / German / French / Spanish / Danish / Croatian / Polish / Turkish	
Access Control	PIN code protection for ON/OFF switching and access to the user/service menu	
Features	The main screen displays the temperature set point, high/low temperature limits, battery level, date/time, LED light ON/OFF switch	
	Possibility to view the real-time temperature graph 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	
	Back-up battery with self-charging circuit (36 hours autonomy in case of power failure)	
Connectivity	USB port	Remote alarm contacts
	Power failure	Temperature probes failure
Main Alarms List (Audio/Visual)	High/Low temperature (freely settable limits by the user)	Back-up battery failure / low charge
	Door open	Thermal protection warning
	High pressure in condensation	High compressor usage warning
	High temperature in condensation	Dirty condenser

OPTIONAL ACCESSORIES AVAILABLE ON REQUEST

Additional wire shelf in PVC-coated steel	RJ45 port for LAN connection (TCP/IP Modbus) to BMS/SCADA and remote monitoring
Pull-out drawer in AISI 304 stainless steel (max n°7)	Wi-Fi kit (TCP/IP Modbus) for connection to BMS/SCADA and remote monitoring
Temperature probe enclosed in a glycol vial	GSM Module with SIM card bridge
Weekly cycle chart disk recorder (n°52 spare paper disks included)	Electric lock for door opening with PASSWORD
Power voltage stabilizer	Electric lock for door opening with BADGE/TRANSPONDER