

Technical Data Sheet

ULT Freezer -86°C

			MANUFACTURER
KW			oparecchi Scientifici S.r.l.
		Via della Resistenza	a 119 - 53035 Monteriggioni (SI) - Italy
			MODEL
			K64 HPL IN
1			tra-low Temperature Freezer
٩			ICAL CHARACTERISTICS
1.0		Storage Volume	708 lt
		Boxes (h=2") Capacity	
		Temperature Range	-40°C / -86°C
		Climate Class	N
		Power Supply	220V-230V / 1 / 50-60Hz
		Power Consumption	0,8 Kw
		Noise Level	< 52 dB
	STRU	CTURE	
Internal Surface	Stainless Steel AISI 304	Shelves	n°3 in AISI 304 S.S. + base
External Surface	White pre-painted steel sheet	Compartments	4
External Dimensions	116 W x 107 D x 205 H cm	Inner Doors	4
Internal Dimensions	81 W x 69 D x 128 H cm	Handle	Ergonomic design with key lock system
Weight	340 kg	Door Type	One wing, solid type
Shipping Size	135 W x 130 D x 225 H cm	Door Sealing	Heated triple silicone gasket
(with wooden crate)	440 kg		4 pivoting wheels (front wheels w/brak
Int/Ext Edges	Rounded for easy cleaning	Standard	Int/Ext pass-through hole
Insulation	140 mm (High density PUR foam)	Equipment	Pressure compensation valve
	REFRIGERA	ΓΙΟΝ SYSTEM	
Cooling System		vith n.2 hermetic compres	sors arranged in cascade
Refrigerant Gases (HC)			° Stage R170
Evaporating System	Copper tube coil thermally connected to the outer peripheral surface of the inner case		
Condensing System	Air-type high-surface condenser, for forced air circulation		
Defrost	Air-type nign-surface condenser, for forced air circulation Manual		
Denost		ITROL SYSTEM	
HPL (High Performance Line)			
Display	Display touch-screen TFT 7" - Microprocessor ARM9 technology (n°2 indipendent motherboards)		
	Display touch-screen in i / - with	Toprocessor Arivis Lectific	logy (n°2 indipendent motherboards)
T Regulation Accuracy		± 0.1°C	logy (n°2 indipendent motherboards)
T Regulation Accuracy Thermal Probes		± 0.1°C	logy (n°2 indipendent motherboards) noregulation - n.1 for T alarm)
	n.2 thermal probes RTD P	± 0.1°C	noregulation - n.1 for T alarm)
Thermal Probes	n.2 thermal probes RTD P Italian	± 0.1°C t100 class A (n.1 for therm	noregulation - n.1 for T alarm) n / German
Thermal Probes Available Languages	n.2 thermal probes RTD F Italian SQLite (Tra	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis	noregulation - n.1 for T alarm) n / German r data reading)
Thermal Probes Available Languages Data Recording Format	n.2 thermal probes RTD P Italian SQLite (Tra Access to	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo	noregulation - n.1 for T alarm) n / German r data reading) fety password
Thermal Probes Available Languages Data Recording Format Access Control	n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa	noregulation - n.1 for T alarm) n / German r data reading) fety password a IP address
Thermal Probes Available Languages Data Recording Format Access Control	n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real-	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph o	noregulation - n.1 for T alarm) n / German r data reading) fety password a IP address
Thermal Probes Available Languages Data Recording Format Access Control Maintenance	n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to run ever	noregulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display
Thermal Probes Available Languages Data Recording Format Access Control	n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the free Safety control (the freeze	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to run ever r continues to operate ever	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display i in the event of a CPU failure) on if the control probe breaks)
Thermal Probes Available Languages Data Recording Format Access Control Maintenance	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph o ezer continues to run ever r continues to operate ever (Automatic recording of te	noregulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) n if the control probe breaks) emperatures and alarms)
Thermal Probes Available Languages Data Recording Format Access Control Maintenance	n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to run ever r continues to operate ever (Automatic recording of to simulate alarm conditions	noregulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display i in the event of a CPU failure) in if the control probe breaks) emperatures and alarms) with a simple key pressure)
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional test	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to run ever r continues to operate ever (Automatic recording of to simulate alarm conditions	noregulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) n if the control probe breaks) emperatures and alarms)
Thermal Probes Available Languages Data Recording Format Access Control Maintenance	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional test USB port	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to run ever r continues to operate ever (Automatic recording of to simulate alarm conditions	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional tes USB port SD Card port	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to run ever r continues to operate ever (Automatic recording of to simulate alarm conditions	noregulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display i in the event of a CPU failure) in if the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional tes USB port SD Card port High/Low temperature	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included for controller functions via sa ity to connect remotely via- time temperature graph of ezer continues to run ever r continues to operate ever (Automatic recording of to- simulate alarm conditions st performed in the factory	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional tes USB port SD Card port High/Low temperature Power failure alarm with back-up	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included for controller functions via sa ity to connect remotely via- time temperature graph of ezer continues to run ever r continues to operate ever (Automatic recording of to- simulate alarm conditions st performed in the factory	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional tes USB port SD Card port High/Low temperature Power failure alarm with back-up Door open	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included for controller functions via sa ity to connect remotely via- time temperature graph of ezer continues to run ever r continues to operate ever (Automatic recording of to- simulate alarm conditions st performed in the factory	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display i in the event of a CPU failure) in if the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity	n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional tes USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph o ezer continues to operate eve (Automatic recording of to simulate alarm conditions st performed in the factory battery	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in if the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional test USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph o ezer continues to operate eve (Automatic recording of to simulate alarm conditions st performed in the factory battery Con	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser amunication failure with motherboards
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre- Safety control (the freeze Data logger function Key test (the user can s Info test (The functional test USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure Pressure switch intervention fa	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to operate eve (Automatic recording of to imulate alarm conditions st performed in the factory battery con ilure Pr	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser munication failure with motherboards essure transducer intervention failure
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual)	n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional tes USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure Pressure switch intervention fa OPTIONAL ACCESSORIES	± 0.1°C t100 class A (n.1 for them / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to operate eve (Automatic recording of tr imulate alarm conditions st performed in the factory battery Con ilure Pr AVAILABLE ON REQ	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in if the control probe breaks) emperatures and alarms) with a simple key pressure) c can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser munication failure with motherboards essure transducer intervention failure JEST
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional test USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure Pressure switch intervention fa OPTIONAL ACCESSORIES	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph o ezer continues to operate eve (Automatic recording of te simulate alarm conditions st performed in the factory battery Con ilure Pr AVAILABLE ON REQ	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser munication failure with motherboards essure transducer intervention failure JEST itional RTD Pt 100 probe
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup 24V LN2 backup	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional test USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure Pressure switch intervention fa OPTIONAL ACCESSORIES system for mechanical failure	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to operate eve (Automatic recording of taking the performed in the factory battery battery AVAILABLE ON REQ Add Additional RTD	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in the event of a CPU failure) it control probes Compressor timing failure it condenser Dirty cond
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup 24V LN2 backup 12V CO2 backup syst	n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional tes USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure Pressure switch intervention fa OPTIONAL ACCESSORIES system for mechanical failure em for mechanical failure	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to operate eve (Automatic recording of taking the performed in the factory battery battery AVAILABLE ON REQ Add Additional RTD	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser munication failure with motherboards essure transducer intervention failure JEST itional RTD Pt 100 probe
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup 24V LN2 backup 12V CO2 backup syst	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional test USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure Pressure switch intervention fa OPTIONAL ACCESSORIES system for mechanical failure	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to operate ever (Automatic recording of tr imulate alarm conditions st performed in the factory battery battery Con ilure Pr AVAILABLE ON REQ Add Additional RTD Weekly cycle chart	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in the event of a CPU failure) it control probes Compressor timing failure it condenser Dirty cond
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup 24V CO2 backup syst 12V CO2 backup syst	n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional tes USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure Pressure switch intervention fa OPTIONAL ACCESSORIES system for mechanical failure em for mechanical failure	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to operate eve (Automatic recording of to imulate alarm conditions st performed in the factory battery battery Con ilure Pr AVAILABLE ON REQ Add Additional RTD Weekly cycle chart Strip GSM Modu	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) on if the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty cond
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup 24V CO2 backup 12V CO2 backup syst 12V LN2 backup syst Mater condensing devi	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can s Info test (The functional test USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure Pressure switch intervention fa OPTIONAL ACCESSORIES system for mechanical failure eem for mechanical failure	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to operate eve (Automatic recording of to imulate alarm conditions st performed in the factory battery battery Con ilure Pr AVAILABLE ON REQ Add Additional RTD Weekly cycle chart Strip GSM Modu	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) on if the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty cond
Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) Alarms List (Audio/Visual) 24V CO2 backup 24V LN2 backup 12V CO2 backup syst 12V LN2 backup syst Mater condensing dev 4000VA p	n.2 thermal probes RTD F Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the fre- Safety control (the freeze Data logger function Key test (the user can s Info test (The functional test USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure Pressure switch intervention fa OPTIONAL ACCESSORIES system for mechanical failure em for mechanical failure em for mechanical/electric failure em for mechanical/electric failure	± 0.1°C t100 class A (n.1 for therm / English / French / Spanis acer® software included fo controller functions via sa ity to connect remotely via time temperature graph of ezer continues to operate eve (Automatic recording of to imulate alarm conditions st performed in the factory battery battery Con ilure Pr AVAILABLE ON REQ Add Additional RTD Weekly cycle chart Strip GSM Modu	horegulation - n.1 for T alarm) n / German r data reading) fety password a IP address n display in the event of a CPU failure) in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) emperatures and alarms) with a simple key pressure) r can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser Dirty condenser Munication failure with motherboards essure transducer intervention failure JEST itional RTD Pt 100 probe Pt 100 probe with 4-20mA converter disk recorder (n°52 spare disks included) -chart electronic recorder