

Technical Data Sheet

ULT Freezer -86°C

			parecchi Scientifici S.r.l.	
		Via della Resistenza	119 - 53035 Monteriggioni (SI) - Italy MODEL	
			K62 HPL IN	
		Upright Ult	ra-low Temperature Freezer	
3		TECHNICAL CHARACTERISTICS		
•		Storage Volume	606 lt	
		Boxes (h=2") Capacity	400 (with full load of 20 racks)	
		Temperature Range	-40°C / -86°C	
A		Climate Class	N	
۹ 🛙		Power Supply	220V-230V / 1 / 50-60Hz	
		Power Consumption	0,7 Kw	
		Noise Level	< 52 dB	
	STRU	JCTURE		
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 97 D x 205 H cm	Inner Doors	4	
Internal Dimensions	80 W x 59 D x 128 H cm	Handle	Ergonomic design with key lock system	
Weight	310 kg	Door Type	One wing, solid type	
Shipping Size	140 W x 120 D x 225 H cm	Door Sealing	Heated triple silicone gasket	
(with wooden crate)	410 kg		4 pivoting wheels (front wheels w/brake	
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	TION SYSTEM		
Cooling System		with n.2 hermetic compress	ors 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	Manual			
	DIGITAL CO	NTROL 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)			
	n.2 thermal probes RTD I	Italian / English / French / Spanish / German		
Available Languages	· ·	/ English / French / Spanish	o	
Available Languages Data Recording Format	Italian	/ English / French / Spanish acer [®] software included for	/ German	
	Italian SQLite (Tr		/ German data reading)	
Data Recording Format	Italian SQLite (Tr Access to	acer [®] software included for	/ German data reading) ety password	
Data Recording Format Access Control	Italian SQLite (Tr. Access to Possibi	acer [®] software included for controller functions via saf	/ German data reading) ety password IP address	
Data Recording Format Access Control	Italian SQLite (Tr Access to Possibi Real	acer [®] software included for controller functions via safe lity to connect remotely via -time temperature graph or	/ German data reading) ety password IP address	
Data Recording Format Access Control Maintenance	Italian SQLite (Tr Access to Possibi Real Disaster recovery (the fre	acer [®] software included for controller functions via saf- lity to connect remotely via -time temperature graph or ezer continues to run even	/ German data reading) ety password IP address n display in the event of a CPU failure)	
Data Recording Format Access Control	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the free Safety control (the freeze	acer [®] software included for controller functions via safe lity to connect remotely via -time temperature graph or sezer continues to run even er continues to operate even	/ German data reading) ety password IP address a display in the event of a CPU failure) a fif the control probe breaks)	
Data Recording Format Access Control Maintenance	Italian SQLite (Tr Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function	acer [®] software included for controller functions via safe lity to connect remotely via -time temperature graph or rezer continues to run even er continues to operate even (Automatic recording of te	/ German data reading) ety password IP address in display in the event of a CPU failure) in if the control probe breaks) mperatures and alarms)	
Data Recording Format Access Control Maintenance	Italian SQLite (Tr Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can	acer [®] software included for controller functions via safe lity to connect remotely via -time temperature graph or ezer continues to run even er continues to operate even (Automatic recording of te simulate alarm conditions w	/ German data reading) ety password IP address in display in the event of a CPU failure) in the control probe breaks) mperatures and alarms) rith a simple key pressure)	
Data Recording Format Access Control Maintenance	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the free Safety control (the freeze Data logger function Key test (the user can Info test (The functional te	acer [®] software included for controller functions via safe lity to connect remotely via -time temperature graph or ezer continues to run even er continues to operate even (Automatic recording of te simulate alarm conditions w	/ German data reading) ety password IP address n display in the event of a CPU failure) n if the control probe breaks) mperatures and alarms) vith a simple key pressure) can be repeated by the user)	
Data Recording Format Access Control Maintenance	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can Info test (The functional te USB port	acer [®] software included for controller functions via safe lity to connect remotely via -time temperature graph or ezer continues to run even er continues to operate even (Automatic recording of te simulate alarm conditions w	/ German data reading) ety password IP address in display in the event of a CPU failure) in if the control probe breaks) mperatures and alarms) vith a simple key pressure) can be repeated by the user) Ethernet port	
Data Recording Format Access Control Maintenance Special Functions	Italian SQLite (Tr Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can Info test (The functional te USB port SD Card port	acer [®] software included for controller functions via safe lity to connect remotely via -time temperature graph or ezer continues to run even er continues to operate even (Automatic recording of te simulate alarm conditions w	/ German data reading) ety password IP address in display in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) mperatures and alarms) with a simple key pressure) can be repeated by the user) Ethernet port Dry contacts for remote alarms	
Data Recording Format Access Control Maintenance Special Functions	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the free Safety control (the freeze Data logger function Key test (the user can Info test (The functional te USB port SD Card port High/Low temperature	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or ezer continues to run even er continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory	/ German data reading) ety password IP address in display in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) mperatures and alarms) with a simple key pressure) can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes	
Data Recording Format Access Control Maintenance Special Functions Connectivity	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can Info test (The functional te USB port SD Card port High/Low temperature Power failure alarm with back-up	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or ezer continues to run even er continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory	/ German data reading) ety password IP address in display in the event of a CPU failure) in if the control probe breaks) mperatures and alarms) vith a simple key pressure) can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure	
Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List	Italian SQLite (Tr Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can Info test (The functional te USB port SD Card port High/Low temperature Power failure alarm with back-up Door open	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or ezer continues to run even er continues to operate even (Automatic recording of te simulate alarm conditions w st performed in the factory battery	/ German data reading) ety password IP address in display in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) mperatures and alarms) with a simple key pressure) can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser	
Data Recording Format Access Control Maintenance Special Functions Connectivity	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the free Safety control (the freeze Data logger function Key test (the user can Info test (The functional te USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or ezer continues to run even er continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory battery	/ German data reading) ety password IP address in display in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) mperatures and alarms) with a simple key pressure) can be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser	
Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can Info test (The functional te USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or rezer continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory battery battery Com	/ German data reading) ety password IP address in display in the event of a CPU failure) in the event of a CPU failure)	
Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can Info test (The functional te USB port SD Card port High/Low temperature Power failure alarm with back-up Door open High condenser pressure Battery failure	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or rezer continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory battery battery com	/ German data reading) ety password IP address in display in the event of a CPU failure) in the control probe breaks) mperatures and alarms) vith a simple key pressure) 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 ssure transducer intervention failure	
Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual)	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the free Safety control (the freeze Data logger function Key test (the user can Info test (The functional te 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	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or rezer continues to run even er continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory battery battery com ailure Pre S AVAILABLE ON REQU	/ German data reading) ety password IP address in 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) mperatures and alarms) with a simple key pressure) 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 ssure transducer intervention failure EST	
Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can Info test (The functional te 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 ACCESSORIE	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or rezer continues to run even er continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory battery battery com ailure Pre S AVAILABLE ON REQU Addi	/ German data reading) ety password IP address in display in the event of a CPU failure) in the control probe breaks) mperatures and alarms) with a simple key pressure) 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 ssure transducer intervention failure IEST tional RTD Pt 100 probe	
Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup 24V LN2 backup	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can Info test (The functional te 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	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or rezer continues to operate even er continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory battery battery com ailure Pre S AVAILABLE ON REQU Addi Additional RTD P	/ German data reading) ety password IP address in display in the event of a CPU failure) in the control probe breaks) mperatures and alarms) vith a simple key pressure) 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 sssure transducer intervention failure IEST tional RTD Pt 100 probe tt 100 probe with 4-20mA converter	
Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup 24V LN2 backup	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the free Safety control (the freeze Data logger function Key test (the user can Info test (The functional te 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 ACCESSORIE system for mechanical failure tem for mechanical failure	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or rezer continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory battery battery Com ailure Pre S AVAILABLE ON REQU Addi Additional RTD P Weekly cycle chart d	/ German data reading) ety password IP address in display in the event of a CPU failure) in the event of a CPU failure) in the control probe breaks) mperatures and alarms) with a simple key pressure) 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 ssure transducer intervention failure IEST tional RTD Pt 100 probe t 100 probe with 4-20mA converter isk recorder (n°52 spare disks included)	
Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup 24V LN2 backup syst 12V LN2 backup syst	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can Info test (The functional te 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 o system for mechanical failure tem for mechanical/electric failure	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or rezer continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory battery battery battery com ailure Pre S AVAILABLE ON REQU Addi Additional RTD P Weekly cycle chart d	/ German data reading) ety password IP address in display in the event of a CPU failure) in the event of a CPU failure) 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 Dirty condenser EST tional RTD Pt 100 probe t 100 probe with 4-20mA converter isk recorder (n°52 spare disks included) chart electronic recorder	
Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup 24V LN2 backup syst 12V LN2 backup syst Water condensing dev	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can Info test (The functional te 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 ACCESSORIE o system for mechanical failure tem for mechanical failure tem for mechanical/electric failure twice with automatic barostatic valve	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or rezer continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory battery battery battery battery com ailure Pre S AVAILABLE ON REQU Additional RTD P Weekly cycle chart d Strip-	/ German data reading) ety password IP address in display in the event of a CPU failure) in if the control probe breaks) mperatures and alarms) <i>i</i> th a simple key pressure) 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 ssure transducer intervention failure EST tional RTD Pt 100 probe t 100 probe with 4-20mA converter isk recorder (n°52 spare disks included) chart electronic recorder e and SIM Card port activation	
Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup 24V LN2 backup 12V CO2 backup syst 12V LN2 backup syst Mater condensing dev 4000VA p	Italian SQLite (Tr. Access to Possibi Real Disaster recovery (the fre Safety control (the freeze Data logger function Key test (the user can Info test (The functional te 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 o system for mechanical failure tem for mechanical/electric failure	acer® software included for controller functions via safe lity to connect remotely via -time temperature graph or rezer continues to operate even a (Automatic recording of te simulate alarm conditions w st performed in the factory battery battery battery battery com ailure Pre S AVAILABLE ON REQU Additional RTD P Weekly cycle chart d Strip-	/ German data reading) ety password IP address in display in the event of a CPU failure) in if the control probe breaks) mperatures and alarms) with a simple key pressure) 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 ssure transducer intervention failure EEST tional RTD Pt 100 probe t 100 probe with 4-20mA converter isk recorder (n°52 spare disks included) chart electronic recorder	