APPARECCHI SCIENTIFICI

Technical Data Sheet

ULT Freezer -86°C

				ANUFACTURER
		Via dolla		arecchi Scientifici S.r.l. 19 - 53035 Monteriggioni (SI) - Italy
	2	via della	Resistenza 1	MODEL
1			K54S HPL IN	
(KW)		Chest Type Ultra-low Temperature Freezer TECHNICAL CHARACTERISTICS		
~				
		Storage	Volume	230 lt
	CONTRACTOR OF STREET, S		2") Capacity	128 (with full load of 16 racks)
		· · ·	ure Range	-40°C / -86°C
88			e Class	N
		Power Supply Power Consumption Noise Level		220V-230V / 1 / 50-60Hz 0,6 kW (1,2 kW with booster function < 52 dB
	STRU	CTURE	Level	
Internal Surface	Stainless Steel AISI 304	1	⁻ Lock	Closing hooks with key lock
External Surface	White pre-painted steel sheet	Insul	ation	175 mm (High density PUR foam)
External Dimensions	150 W x 87 D x 127 H cm	Inner	Doors	2
Internal Dimensions	115 W x 40 D x 50 H cm	Door	Туре	One wing, solid type
Weight	270 kg	Door S	Sealing	Heated triple silicone gasket
Shipping Size	200 W x 110 D x 170 H cm			4 pivoting wheels (front wheels w/brake
(with wooden crate)	370 kg		dard	Int/Ext pass-through hole
Int/Ext Edges	Rounded for easy cleaning	– Equip	oment	Pressure compensation valve
	REFRIGERA	TION SYSTEM	N	
	Double independent refrig. sy	rstems (4 comp	ressors + 2 ev	aporators) arranged in cascade
Cooling System	Alternate operation with fully automatic management			
econing officerin	The life span of the engines has almost doubled, with mechanical wear being halved			
	If one system fails, the control system signals the event and excludes the system in failure			
Refrigerant Gases		.270		Stage R170
Evaporating System				heral surface of the inner case
	Air-type high-surface condenser, for forced air circulation			
Condensing System	Air-type high-			d air circulation
Condensing System Defrost	Air-type high-	Mai	nual	d air circulation
		Mai	nual	d air circulation
Defrost HPL	DIGITAL CON		nual M	d air circulation gy (n°2 indipendent motherboards)
Defrost HPL (High Performance Line)	DIGITAL CON	Man ITROL SYSTE	nual M	
Defrost HPL (High Performance Line) Display	DIGITAL CON Display touch-screen TFT 7" - Mic	Man ITROL SYSTE	nual M RM9 technolo, .1°C	
Defrost HPL (High Performance Line) Display T Regulation Accuracy	DIGITAL CON Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P	Man ITROL SYSTE	nual M M M9 technolo, .1°C .1 for thermon	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm)
Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes	DIGITAL CON Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian	Man ITROL SYSTE Official roprocessor AR ± 0 t100 class A (n.	nual M RM9 technolo .1°C .1 for thermoi ch / Spanish /	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) ' German
Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes Available Languages	DIGITAL CON Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian SQLite (Tra	Man ITROL SYSTE For a system roprocessor AR ± 0 t100 class A (n. / English / Fren	nual M RM9 technolog .1°C .1 for thermoi ch / Spanish / included for c	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) ' German lata reading)
Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes Available Languages Data Recording Format	DIGITAL CON Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian SQLite (Tra Access to	Man TROL SYSTE FOR STAN TOPROCESSOR AR ± 0 t100 class A (n. / English / Fren cer® software	nual M RM9 technolog .1°C .1 for thermon ch / Spanish / included for c tions via safet	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) ^r German lata reading) ty password
Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes Available Languages Data Recording Format Access Control	Digital CON Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real-	Man TROL SYSTE Control Control Contr	M M M9 technolo, .1°C .1 for thermoi ch / Spanish / included for c tions via safet remotely via l ure graph on	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) ' German lata reading) ty password P address display
Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes Available Languages Data Recording Format Access Control	Digital CON Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the free	Man TROL SYSTE TOPTOCESSOF AR ± 0 t100 class A (n. / English / Fren cer® software in controller func ity to connect r time temperations ezer continues	nual M RM9 technolog .1°C .1 for thermoi ch / Spanish / included for c tions via safet remotely via I ure graph on to run even ir	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) ' German lata reading) ty password P address display n the event of a CPU failure)
Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes Available Languages Data Recording Format Access Control	Digital CON Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the free Safety control (the freeze	Man TROL SYSTE Troprocessor AR ± 0 t100 class A (n. / English / Fren iccer® software in controller func ity to connect r time temperate per continues to control the temperate the temperate of the temperate of tempera	nual M RM9 technolo, .1°C .1 for thermoi ch / Spanish / included for c tions via safet remotely via l ure graph on to run even ir operate even	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) ' German lata reading) ty password P address display n the event of a CPU failure) if the control probe breaks)
Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes Available Languages Data Recording Format Access Control Maintenance	Digital CON Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the free Safety control (the freeze Data logger function	Man TROL SYSTE Troprocessor AR ± 0 t100 class A (n. / English / Fren cer® software in controller function ity to connect re- time temperatures prontinues to co (Automatic reconstruction)	nual M RM9 technolog .1°C .1 for thermoloch / Spanish / included for c tions via safet remotely via l ure graph on to run even ir opperate even cording of terr	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) ' German lata reading) ty password P address display n the event of a CPU failure) if the control probe breaks) inperatures and alarms)
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Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions	Digital CON Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the free Safety control (the freeze Data logger function Key test (the user can s Info test (The functional tes USB port SD Card port	Man TROL SYSTE TOPTOCESSOF AR ± 0 t100 class A (n. / English / Fren icer® software i controller func ity to connect r time temperatu ezer continues to co (Automatic rec imulate alarmo	M RM9 technolog 1°C 1 for thermon ch / Spanish / included for c tions via safet remotely via l ure graph on to run even ir operate even cording of term conditions wi the factory ca	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) ' German lata reading) ty password P address display n the event of a CPU failure) if the control probe breaks) uperatures and alarms) th a simple key pressure) an be repeated by the user) Ethernet port Dry contacts for remote alarms
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Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List	Display touch-screen TFT 7" - Mic Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the free 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	Man ITROL SYSTE Controller System 100 class A (n. 2 English / Fren cer® software i controller func- ity to connect r time temperatures r continues to co (Automatic reco imulate alarmound t performed in battery ilure	M AM9 technolog AM9	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) (German lata reading) cy password P address display the event of a CPU failure) if the control probe breaks) mperatures and alarms) th a simple key pressure) an be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser unication failure with motherboards sure transducer intervention failure
Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual)	Display touch-screen TFT 7" - Mic Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian SQLite (Tra Access to Possibil Real- Disaster recovery (the free 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 failure	Man ITROL SYSTE Controller System 100 class A (n. 2 English / Fren cer® software i controller func- ity to connect r time temperatures r continues to co (Automatic reco imulate alarmound t performed in battery ilure	M AM9 technolog AM9	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) (German lata reading) cy password P address display the event of a CPU failure) if the control probe breaks) mperatures and alarms) th a simple key pressure) an be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser unication failure with motherboards sure transducer intervention failure
Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) 24V CO2 backup	Display touch-screen TFT 7" - Mic Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian, SQLite (Tra Access to Possibil Real- Disaster recovery (the free 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	Man ITROL SYSTE Controller Software in Controller funce ity to connect re- time temperate ezer continues to co (Automatic reco imulate alarm of t performed in battery ilure AVAILABLE	M AND technolog AND technolog AND technolog AND technolog AND technolog AND technolog And technolog And technolog And technolog And technolog Additions A	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) (German lata reading) ty password P address display n the event of a CPU failure) if the control probe breaks) speratures and alarms) th a simple key pressure) an be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser unication failure with motherboards sure transducer intervention failure EST
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Defrost HPL (High Performance Line) Display T Regulation Accuracy Thermal Probes Available Languages Data Recording Format Access Control Maintenance Special Functions Connectivity Alarms List (Audio/Visual) Al	Display touch-screen TFT 7" - Mic Display touch-screen TFT 7" - Mic n.2 thermal probes RTD P Italian, SQLite (Tra Access to Possibil Real- Disaster recovery (the free 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 system for mechanical failure em for mechanical/electric failure ite with automatic barostatic valve	Mar ITROL SYSTE Controller Software i controller funce ity to connect r time temperate controller dunce ity to connect r time temperate controller funce ity to connect r controller funce ity to connect r time temperate controller funce ity to connect r to controller funce to controller funce ity to connect r to controller funce to control	M M M M M M M M M M M M M M	gy (n°2 indipendent motherboards) regulation - n.1 for T alarm) 'German lata reading) ty password P address display n the event of a CPU failure) if the control probe breaks) mperatures and alarms) th a simple key pressure) an be repeated by the user) Ethernet port Dry contacts for remote alarms Faulty probes Compressor timing failure High temperature condenser Dirty condenser unication failure with motherboards sure transducer intervention failure EST 100 probe with 4-20mA converter k recorder (n°52 spare disks included) mart electronic recorder