## APPARECCHI SCIENTIFICI

## **Technical Data Sheet**

ULT Freezer -86°C

			М	ANUFACTURER
				arecchi Scientifici S.r.l.
		Via della		19 - 53035 Monteriggioni (SI) - Italy
				MODEL
	8			K55ES HPL IN
		Chest Type Ultra-low Temperature Freezer		
	Non-	TECHNICAL CHARACTERISTICS Storage Volume 705 It		
		-		705 lt
	A MARKANNY		2") Capacity	468 (with full load of 39 racks)
	7	· · ·	ure Range	-40°C / -86°C
	•		te Class	N
			Supply	220V-230V / 1 / 50-60Hz
			nsumption	0,7 kW (1,4 kW with booster function
	CTDU		e Level	< 52 dB
Internal Surface	STRU Stainless Steel AISI 304	CTURE	r Lock	Closing books with koy lock
External Surface	White pre-painted steel sheet		ation	Closing hooks with key lock 140 mm (High density PUR foam)
External Dimensions	299 W x 87 D x 112 H cm		Doors	2
Internal Dimensions	186 W x 48 D x 79 H cm		Type	One wing, solid type
Weight	400 kg	Doors	Sealing	Heated triple silicone gasket
Shipping Size (with wooden crate)	330 W x 120 D x 140 H cm	Stan	dard	4 pivoting wheels (front wheels w/brak
	500 kg	Equip	oment	Int/Ext pass-through hole
Int/Ext Edges	Rounded for easy cleaning			Pressure compensation valve
	REFRIGERAT			
	Double independent refrig. systems (4 compressors + 2 evaporators) arranged in cascade			
Cooling System	Alternate operation with fully automatic management			
	The life span of the engines has almost doubled, with mechanical wear being halved			
Defitient Course	If one system fails, the control system signals the event and excludes the system in failure			
Refrigerant Gases	1° Stage         R1270         2° Stage         R170           Copper tube coil thermally connected to the outer peripheral surface of the inner case         Inner case         Inner case			
Evaporating System				
	Air-type high-surface condenser, for forced air circulation			
Condensing System	All-type high-			d air circulation
Condensing System Defrost		Ma	nual	d air circulation
	DIGITAL CON	Ma	nual	d air circulation
		Ma	nual	d air circulation
Defrost HPL	DIGITAL CON	Mai TROL SYSTE	nual M	
Defrost HPL (High Performance Line) Display	DIGITAL CON	Mai TROL SYSTE	nual M M9 technolog	gy (n°2 indipendent motherboards)
Defrost HPL (High Performance Line)	DIGITAL CON Display touch-screen TFT 7" - Micr	Mai TROL SYSTE	nual IM RM9 technolog .1°C	gy (n°2 indipendent motherboards)
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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)  24V LN2 backup 324V LN2 backup 324V LN2 backup syst 322 LN2 backup syst 322 LN2 backup syst 322 LN2 backup syst	Display touch-screen TFT 7" - Mich Display touch-screen TFT 7" - Mich n.2 thermal probes RTD Pi Italian / SQLite (Tra Access to d Possibili Real-1 Disaster recovery (the free Safety control (the freezer Data logger function Key test (the user can si 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 system for mechanical failure	Mar TROL SYSTE Controller Software Controller funce to controller funce ty to connect in time temperat controller alarm t performed in battery ilure AVAILABLE Addi Weekly of	nual M  RM9 technolog  .1°C  .1 for thermore ch / Spanish / included for d tions via safet remotely via II ure graph on to run even ir operate even cording of tem conditions wif the factory ca  Comm Press ON REQUE Addition tional RTD Pt cycle chart dis Strip-ch	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) neperatures 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 <b>EST</b> 100 probe with 4-20mA converter k recorder (n°52 spare disks included)
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 LV2 backup 24V LV2 backup syst 12V LV2 backup syst Water condensing deviation	Display touch-screen TFT 7" - Mich Display touch-screen TFT 7" - Mich n.2 thermal probes RTD Pi Italian / SQLite (Tra Access to d Possibili Real-1 Disaster recovery (the free Safety control (the freezer Data logger function Key test (the user can si 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 <b>OPTIONAL ACCESSORIES</b> system for mechanical failure tem for mechanical failure	Mar TROL SYSTE Corressor AF ± 0 t100 class A (n. 'English / Fren cer® software controller func ty to connect r time temperat controller func ty to connect r ty ty to connect r ty	nual M  RM9 technolog  .1°C  .1°C  .1 for thermore ch / Spanish / included for de tions via safet remotely via II ure graph on to run even ir operate even cording of tem conditions wit the factory ca  Comm Press ON REQUE Addition tional RTD Pt cycle chart dis Strip-ch GSM Module	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 <b>EST</b> Donal RTD Pt 100 probe 100 probe with 4-20mA converter k recorder (n°52 spare disks included) mart electronic recorder and SIM Card port activation
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 24V LN2 backup 12V CO2 backup syst 12V LN2 backup syst Water condensing dev 4000VA p	Display touch-screen TFT 7" - Mich Display touch-screen TFT 7" - Mich n.2 thermal probes RTD Pi Italian / SQLite (Tra Access to o Possibili Real-1 Disaster recovery (the free Safety control (the freezer Data logger function 1 Key test (the user can si 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 tem for mechanical/electric failure tice with automatic barostatic valve	Mar TROL SYSTE Corressor AF ± 0 t100 class A (n. 'English / Fren cer® software controller func ty to connect r time temperat controller func ty to connect r ty ty to connect r ty	nual M  RM9 technolog  .1°C  .1°C  .1 for thermore ch / Spanish / included for de tions via safet remotely via II ure graph on to run even ir operate even cording of tem conditions wit the factory ca  Comm Press ON REQUE Addition tional RTD Pt cycle chart dis Strip-ch GSM Module	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 <b>EST</b> 100 probe with 4-20mA converter k recorder (n°52 spare disks included) mart electronic recorder