

Ultrafreezer's Option

Designation	Description	Notes	Art. No.
Open door alarm	<i>sensor open door alarm</i>	-	AP100
SMS alarm texted	<i>remote notification alarm via text message</i>	-	ASMS100
Independent alarm system	<i>audible and visual alarm system independent of the control system</i>	-	CT100
Surge protection device	<i>surge protection device for regulating and circuit control</i>	-	DPS100
Voltage stabilizer	<i>Incorporated voltage stabilizer system</i>	-	ST100
UPS system	<i>uninterruptible power supply</i>	-	UPS100
Circular chart recorder	<i>weekly circular chart temperature recorder, including 50 papers and 2 pens</i>	-	BA0188
Papers for weekly chart recorder	<i>additional 60 papers</i>	-	DD060
	<i>additional 100 papers</i>	-	DD100
Pens for weekly chart recorder	<i>additional 2 pens</i>	-	PN002
	<i>additional 4 pens</i>	-	PN004
	<i>additional 5 pens</i>	-	PN005
USB storage data	<i>USB port for storage data</i>	-	UDB100
RS485 Serial interface	<i>RS485 Serial interface for remote connection</i>	-	RS485
Interface converter RS485/USB	<i>RS485/USB interface converter</i>	-	RS485/USB
RS232 Serial interface	<i>RS232 Serial interface for remote connection</i>	-	RS232
Ethernet interface	<i>ethernet interface for remote connection</i>	-	ETH100
Pt 100 temperature sensor	<i>additional Pt 100, with flexible cable installed with external connection</i>	-	SND20T
CO2 Backup system	<i>a security backup system with CO2</i>	-	CO200
LN2 Backup system	<i>a security backup system with LN2</i>	-	LN200
CO2 ramp cylinder	<i>two seater with automatic feeding exchanger</i>	-	RMP100
Additional refrigerant system	<i>automatic activation in case of failure primary refrigeration system</i>	-	RFG100
Remotely cooling system	<i>cooling system mounted outside of laboratory</i>	-	RMT100
Internal ventilation system	<i>increased cooling distribution inside the chamber</i>	-	VE100
Access by smart card	<i>restricted access door with traceability by smart card</i>	-	RFID100
Battery backup	<i>12v battery backup</i>	-	BTT100
Additional Internal shelf	<i>additional shelf</i>	-	SH100
Condenser filter	<i>polyester filter</i>	-	FAP100
Gloves	<i>covers forearms for low temperature</i>	-	GL-A001
Access port with plug	<i>right</i>	-	FD100
	<i>left</i>	-	FL100
	<i>top</i>	-	FS100
Sliding drawers (WxDxH mm)	<i>drawer 560x420x70</i>	-	VS2070
	<i>drawer 560x420x90</i>	-	VS2090
	<i>drawer 560x420x130</i>	-	VS2130
	<i>drawer 560x420x70</i>	-	VS3070
	<i>drawer 560x420x90</i>	-	VS3090
	<i>drawer 560x420x130</i>	-	VS3130
	<i>drawer 560x560x70</i>	-	VS5070
	<i>drawer 560x560x90</i>	-	VS5090
	<i>drawer 560x560x130</i>	-	VS5130
	<i>drawer 700x560x70</i>	-	VS6070
	<i>drawer 700x560x90</i>	-	VS6090
	<i>drawer 700x560x130</i>	-	VS6130

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Designation	Description	Notes	Art. No.
Internal dividers for vials	<i>diameter mm 11/13 for 230 liter</i>	-	VPC-23
	<i>diameter mm 11/13 for 390 liter</i>	-	VPC-39
	<i>diameter mm 11/13 for 500 liter</i>	-	VPC-50
Chamber rack stainless steel	<i>18 cryoboxes hold 5.1 cm height for 86NV23</i>	-	V2-18
	<i>15 cryoboxes hold 5.1 cm height for 86NV39</i>	-	V2-15
	<i>20 cryoboxes hold 5.1 cm height for 86NV50-65</i>	-	V2-20
	<i>12 cryoboxes hold 7.7 cm height for 86NV23</i>	-	V3-11
	<i>9 cryoboxes hold 7.7 cm height for 86NV39</i>	-	V3-09
	<i>12 cryoboxes hold 7.7 cm height for 86NV50-65</i>	-	V3-12
	<i>8 cryoboxes hold 5.1 cm height for 86NR23-39</i>	-	R2-08
	<i>10 cryoboxes hold 5.1 cm height for 86NR50</i>	-	R2-10
	<i>5 cryoboxes hold 7.7 cm height for 86NR23-39</i>	-	R3-05
	<i>7 cryoboxes hold 7.7 cm height for 86NR50</i>	-	R3-07
Chamber rack stainless steel, including cryoboxes	<i>18 cryoboxes 5.1 cm height for 86NV23</i>	-	V2-18C
	<i>15 cryoboxes 5.1 cm height for 86NV39</i>	-	V2-15C
	<i>20 cryoboxes 5.1 cm height for 86NV50-65</i>	-	V2-20C
	<i>12 cryoboxes 7.7 cm height for 86NV23</i>	-	V3-11C
	<i>9 cryoboxes 7.7 cm height for 86NV39</i>	-	V3-09C
	<i>12 cryoboxes 7.7 cm height for 86NV50-65</i>	-	V3-12C
	<i>8 cryoboxes 5.1 cm height for 86NR23-39</i>	-	R2-08C
	<i>10 cryoboxes 5.1 cm height for 86NR50</i>	-	R2-10C
	<i>5 cryoboxes 7.7 cm height for 86NR23-39</i>	-	R3-05C
	<i>7 cryoboxes 7.7 cm height for 86NR50</i>	-	R3-07C
Cryoboxes for chamber rack	<i>5.1 cm height with 81 space</i>	-	B2-81
	<i>7.7 cm height with 81 space</i>	-	B3-81
Double service door	<i>double service door for 390 upright model</i>	-	86NV39-S2
	<i>double service door for 500 upright model</i>	-	86NV50-S2
	<i>double service door for 650 upright model</i>	-	86NV65-S2
Packaging, Upright models	<i>wooden crate 230 liter</i>	-	PAC-UP-10
	<i>wooden crate 390 liter</i>	-	PAC-UP-20
	<i>wooden crate 500 liter</i>	-	PAC-UP-30
	<i>wooden crate 650 liter</i>	-	PAC-UP-40
	<i>wooden boxes 230 liter</i>	-	PAW-UP-10
	<i>wooden boxes 390 liter</i>	-	PAW-UP-20
	<i>wooden boxes 500 liter</i>	-	PAW-UP-30
	<i>wooden boxes 650 liter</i>	-	PAW-UP-40
Packaging, Chest models	<i>wooden crate 230 liter</i>	-	PAC-CH-10
	<i>wooden crate 390 liter</i>	-	PAC-CH-20
	<i>wooden crate 500 liter</i>	-	PAC-CH-30
	<i>wooden boxes 230 liter</i>	-	PAW-CH-10
	<i>wooden boxes 390 liter</i>	-	PAW-CH-20
	<i>wooden boxes 500 liter</i>	-	PAW-CH-30
Fumigation wood treatment	<i>fumigation treatment for wooden crate or boxes</i>	-	FTW10
Calibration certificate, temperature	<i>measurement in center of chamber at specified temperature</i>	-	CCT001
	<i>temperature measurement incl. certificate, 9 measuring points at specified temperature</i>	-	CCT009
Qualification folder IQ/OQ	<i>supporting documents for validation performed by customer, consisting of: IQ/OQ checklists, unit schematics, QM certificate in accordance with ISO 9001</i>	-	IQ-OQ-100
Power supply 110 V 50-60 Hz	<i>power supply 110 V 50-60 Hz</i>	-	TE110



FDM - ENVIRONMENT MAKERS

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