



Telstar[®] *Laboratory Division*
Life Science solutions

Product Range

Cold Storage

Clean Air

Lyo

Laboratory Division

Product Range

Laminar Flow & Biosafety cabinets

Operator, product & environment protection

- Microbiological safety cabinets (EN 12469 Class II, NSF 49 Class II Type A2)
- Microbiological safety cabinets (NSF 49 Class II Type B2)
- Microbiological safety cabinets (EN 12469 Class III)
- Isolators

Product protection

- Vertical laminar flow benches
- Horizontal laminar flow benches

Operator protection

- Extraction cabinets

Cold Storage

- Ultra low temperature freezers
- Portable freezers
- Laboratory freezers
- Laboratory refrigerators
- Laboratory freezer/refrigerator combinations
- Bloodbank refrigerators
- Ice flake machines





Freeze Dryers

- Laboratory freeze dryers

Wireless monitoring & alarm system


- Wireless Lab

Microbiological Safety Cabinets - EN 12469 Class II, NSF 49 Class II Type A2

MODEL	EXTERNAL DIMENSIONS mm (WxDxH)	INTERNAL DIMENSIONS mm (WxDxH)	EXHAUST VOLUME & DOWNFLOW VELOCITY	STANDARD EQUIPPED WITH	OPTIONS	
Bio II Advance Series Bio II Advance 3 Bio II Advance 4 Bio II Advance 6	1049 x 759 x 1260 1354 x 759 x 1260 1964 x 759 x 1260	954 x 605 x 587 1259 x 605 x 587 1869 x 605 x 587	295 m ³ /h 402 m ³ /h 620 m ³ /h ---- 0,35 m/s	<ul style="list-style-type: none"> • Microprocessor control with alarms and parameters • Ergonomic sloped sliding/hinged window (laminated safety glass) • Two splash-proof power sockets • UV germicidal kit • Two HEPA filter stages 	<ul style="list-style-type: none"> • Support frame (fixed or electrical) • Formalin vaporiser • Taps (gas, vacuum, nitrogen, etc.) • Activated charcoal filter • Anti blow-back valve • Thimble • FAT / SAT / IQ / OQ 	
	BioVanguard Series BioVanguard 3 BioVanguard 4 BioVanguard 5 BioVanguard 6	1068 x 794 x 1602 1373 x 794 x 1602 1678 x 794 x 1602 1983 x 794 x 1602	875 x 550 x 744 1180 x 550 x 744 1485 x 550 x 744 1790 x 550 x 744	300 m ³ /h 400 m ³ /h 540 m ³ /h 650 m ³ /h ---- 0,36 - 0,45 m/s	<ul style="list-style-type: none"> • Energy saving EC fans • Low sound level • GMP and PIC's compliant • Microprocessor control with alarms and parameters • User-friendly control • Ergonomic sloped sliding/hinged window (laminated safety glass) • Pre-filter & drip tray • 2 x electrical socket • Two HEPA filter stages 	<ul style="list-style-type: none"> • Support frame (fixed or electrical) • Electrical window • Additional electrical sockets • UV light • Taps (natural gas, vacuum, N₂, O₂ etc) • Anti-blow back valve • Decontamination connection • Exhaust transition • Thimble • FAT / SAT / IQ / OQ
BioVanguard B 4 BioVanguard B 6	1373 x 794 x 2262 1983 x 794 x 2262	1180 x 550 x 744 1790 x 550 x 744	400 m ³ /h 650 m ³ /h ---- 0,36 - 0,45 m/s	BioVanguard B additionally equipped with: <ul style="list-style-type: none"> • 1st HEPA filter section (three HEPA filter stages in total) 		
	EuroFlow Series EF 4 EF 5 EF 6	1333 x 844 x 1552 1638 x 844 x 1552 1943 x 844 x 1552	1190 x 605 x 725 1495 x 605 x 725 1800 x 605 x 725	300 m ³ /h 400 m ³ /h 500 m ³ /h ---- 0,36 m/s	<ul style="list-style-type: none"> • Microprocessor control with alarms and parameters • User-friendly control • Sliding/hinged window (laminated safety glass) • Two HEPA filter stages 	<ul style="list-style-type: none"> • Support frame (fixed or electrical) • Electrical socket(s) • UV light • Taps (natural gas, vacuum, N₂, O₂ etc) • Anti-blow back valve • Decontamination connection • Exhaust transition • Thimble • Pre-filter & drip tray (optional for EF)
	EF/B 4 EF/B 6	1333 x 844 x 2202 1943 x 844 x 2202	1190 x 605 x 725 1800 x 605 x 725	400 m ³ /h 600 m ³ /h ---- 0,36 m/s	EF/B additionally equipped with: <ul style="list-style-type: none"> • 1st HEPA filter section (three HEPA filter stages in total) 	<ul style="list-style-type: none"> • FAT / SAT / IQ / OQ • Special requests such as: <ul style="list-style-type: none"> • microscope • heating plate • etc
						


Total Exhaust Cabinet - Microbiological Safety Cabinets - NSF 49 Class II Type B2

Note: Dedicated exhaust system required


MODEL	EXTERNAL DIMENSIONS mm (WxDxH)	INTERNAL DIMENSIONS mm (WxDxH)	EXHAUST VOLUME & DOWNFLOW VELOCITY	STANDARD EQUIPPED WITH	OPTIONS
EF/B TE 4 EF/B TE 6	1333 x 844 x 2262 1943 x 844 x 2408 	1190 x 605 x 725 1800 x 605 x 725	1350 - 1580 m ³ /h 2025 - 2375 m ³ /h ---- 0,36 - 0,45 m/s	<ul style="list-style-type: none"> • Microprocessor control with alarms and parameters • Sliding/hinged window (laminated safety glass) • Pre-filter & drip tray • Total exhaust • Duct connection • One (downflow) HEPA filter stage • 1st HEPA filter section (two HEPA filter stages in total) 	<ul style="list-style-type: none"> • Support frame (fixed or electrical) • UV light • Taps (natural gas, vacuum, N₂, O₂ etc) • Decontamination connection • FAT / SAT / IQ / OQ

Total Exhaust Cabinet

Note: Dedicated exhaust system required

MODEL	EXTERNAL DIMENSIONS mm (WxDxH)	INTERNAL DIMENSIONS mm (WxDxH)	EXHAUST VOLUME & DOWNFLOW VELOCITY	STANDARD EQUIPPED WITH	OPTIONS
EF TE 4 EF TE 6	1333 x 844 x 1612 1943 x 844 x 1766 	1190 x 605 x 725 1800 x 605 x 725	1350 - 1580 m ³ /h 2025 - 2375 m ³ /h ---- 0,36 - 0,45 m/s	<ul style="list-style-type: none"> • Microprocessor control with alarms and parameters • Sliding/hinged window (laminated safety glass) • Pre-filter & drip tray • Total exhaust • Duct connection • One (downflow) HEPA filter stage 	<ul style="list-style-type: none"> • Support frame (fixed or electrical) • UV light • Taps (natural gas, vacuum, N₂, O₂ etc) • Decontamination connection • FAT / SAT / IQ / OQ

Microbiological Safety Cabinets - EN 12469 Class III

MODEL	EXTERNAL DIMENSIONS mm (WxDxH)	INTERNAL DIMENSIONS mm (WxDxH)	EXHAUST VOLUME & DOWNFLOW VELOCITY	STANDARD EQUIPPED WITH	OPTIONS
MSC III Series MSC III 1200 MSC III 1500 MSC III 1800 Hatch 	1757 x 791 x 1240 2057 x 791 x 1240 2357 x 791 x 1240	1194 x 614 x 870 1494 x 614 x 870 1794 x 614 x 870	300 m ³ /h 300 m ³ /h 300 m ³ /h Exhaust connection Ø 250 mm	<ul style="list-style-type: none"> • Microprocessor control with alarms and parameters • User-friendly control • Sloped hinged window (laminated safety glass) • 1,5 - 2 mm Stainless Steel • One hatch • Two HEPA filter stages 	<ul style="list-style-type: none"> • Positive or negative pressure • Zero, one or two hatches • Advanced PLC control • Decontamination connection • Dunk tank • UV light • Alcohol shower • Storage shelf • FAT / SAT / IQ / OQ

Isolators

MODEL	EXTERNAL DIMENSIONS mm (WxDxH)	INTERNAL DIMENSIONS mm (WxDxH)	EXHAUST VOLUME & DOWNFLOW VELOCITY	STANDARD EQUIPPED WITH	OPTIONS
IsoFlow Series					
Isoflow 4	1250 x 755 x 2500	1208 x 550 x 750	250 m ³ /h	<ul style="list-style-type: none"> • Microprocessor control with alarms and parameters • Sloped window (laminated safety glass) • Stainless Steel in- and exterior • Laminar air flow • Fast recovery time within hatch • Inflatable gaskets • Interlock system • Sliding tray in hatch • User-friendly control • Ergonomic and adjustable arm- and feet rests 	<ul style="list-style-type: none"> • Positive or negative pressure • Zero, one or two hatches • Advanced PLC control • Decontamination connection • Dunk tank • UV light • Alcohol shower • Storage shelf • FAT / SAT / IQ / OQ
Isoflow 6	1860 x 755 x 2500	1805 x 550 x 750	450 m ³ /h		
Hatch	485 x 755 x 1610		225 m ³ /h ---- 0,36 - 0,45 m/s		
			Exhaust connection Ø 250 mm		
IsoFlow B Series					
Isoflow 4B	1250 x 755 x 2500	1208 x 550 x 750	250 m ³ /h	<ul style="list-style-type: none"> • Two HEPA filter stages • One HEPA filter stage in hatch <p>IsoFlow B additionally equipped with:</p> <ul style="list-style-type: none"> • 1st HEPA filter section (three HEPA filter stages in total) 	
Isoflow 6B	1860 x 755 x 2500	1805 x 550 x 750	450 m ³ /h		
Hatch	485 x 755 x 1610		---- 0,36 - 0,45 m/s		
			Exhaust connection Ø 250 mm		
CS Series					
CS 1201	1300 x 835 x 1760	1200 x 580 x 685	250 m ³ /h	<ul style="list-style-type: none"> • Microprocessor control with alarms and parameters • Laminated safety glass window • Stainless Steel in- and exterior (304) • Sliding tray in hatch • Two HEPA filter stages • One HEPA filter stage in hatch 	<ul style="list-style-type: none"> • Positive or negative pressure • One or two hatches • Stainless Steel 316 • UV light • Alcohol shower • Storage shelf • FAT / SAT / IQ / OQ
CS 1801	1900 x 835 x 1760	1820 x 580 x 685	450 m ³ /h		
Hatch	465 x 360 x 356		---- 0,35 - 0,45 m/s		
					
CS 1202	1300 x 835 x 2410	1200 x 580 x 685	250 m ³ /h	<p>CS ..02 additionally equipped with:</p> <ul style="list-style-type: none"> • 1st HEPA filter section (three HEPA filter stages) • Second HEPA filter stage in hatch 	
CS 1802	1900 x 835 x 2410	1820 x 580 x 685	450 m ³ /h		
Hatch	465 x 360 x 356		---- 0,35 - 0,45 m/s		
					

Vertical Laminar Flow Benches

MODEL	EXTERNAL DIMENSIONS mm (WxDxH)	INTERNAL DIMENSIONS mm (WxDxH)	EXHAUST VOLUME & DOWNFLOW VELOCITY	STANDARD EQUIPPED WITH	OPTIONS
V-100 Series PV-100 AV-100 BV-100 CV-100	802 x 845 x 1290 1260 x 845 x 1290 1565 x 845 x 1290 1870 x 845 x 1290	722 x 580 x 700 1230 x 580 x 700 1535 x 580 x 700 1840 x 580 x 700	605 m ³ /h 1028 m ³ /h 1282 m ³ /h 1537 m ³ /h --- 0,40 m/s	<ul style="list-style-type: none"> Digital control panel: Monitoring elapsed time of fan, UV, alarms, lighting, (normal or UV) and UV irradiation programmable time HEPA filter H14 Power socket in working area Stand by air speed 	<ul style="list-style-type: none"> Support frame UV germicide kit Taps (gas, vacuum, nitrogen, etc.) Alarm system to indicate clogging of HEPA/ULPA filter
V-30/70 Series PV-30/70 AV-30/70 BV-30/70 CV-30/70	802 x 845 x 1290 1260 x 845 x 1450 1565 x 845 x 1450 1870 x 845 x 1450	722 x 580 x 700 1230 x 580 x 700 1535 x 580 x 700 1840 x 580 x 700	605 m ³ /h 1028 m ³ /h 1282 m ³ /h 1537 m ³ /h --- 0,40 m/s	V-30/70 additionally equipped with: <ul style="list-style-type: none"> Double HEPA filter (in impulsion and exhaust) 	V-30/70 additional option: <ul style="list-style-type: none"> Activated charcoal filter
Mini V/PCR	670 x 520 x 1125	630 x 500 x 570	454 m ³ /h --- 0,40 m/s	Mini V/PCR additionally equipped with: <ul style="list-style-type: none"> UV germicide kit 	<ul style="list-style-type: none"> Support frame Tap (gas, vacuum, nitrogen) (max. one) Front window
DLF Series DLF 360 DLF 460 DLF 560 DLF 660	985 x 740 x 1360 1290 x 740 x 1360 1595 x 740 x 1360 1900 x 740 x 1360	885 x 600 x 685 1190 x 600 x 685 1495 x 600 x 685 1800 x 600 x 685	0,36 m/s	<ul style="list-style-type: none"> Microprocessor control with alarms and parameters Low sound level Sliding window (safety glass) 1,5 - 2 mm epoxy coated steel Stainless Steel 304 worktop One HEPA filter stage 	<ul style="list-style-type: none"> Support frame Taps (natural gas, vacuum, N₂, O₂ etc) Electrical socket(s) Stainless Steel bar with (6 or 8) hooks FAT / SAT / IQ / OQ Stainless Steel 304 interior * UV light * Aperture cover *
DLF PCR Series DLF PCR 360 DLF PCR 460 DLF PCR 560 DLF PCR 660	985 x 740 x 1360 1290 x 740 x 1360 1595 x 740 x 1360 1900 x 740 x 1360	885 x 600 x 685 1190 x 600 x 685 1495 x 600 x 685 1800 x 600 x 685	0,36 m/s	DLF PCR additionally equipped with: <ul style="list-style-type: none"> Stainless Steel 304 interior UV light Aperture cover 	* Standard included in DLF PCR Series





Horizontal Laminar Flow Benches

MODEL	EXTERNAL DIMENSIONS mm (WxDxH)	INTERNAL DIMENSIONS mm (WxDxH)	EXHAUST VOLUME & HORIZONTAL VELOCITY	STANDARD EQUIPPED WITH	OPTIONS
H-100 Series AH-100 MH-100 BH-100	1260 x 845 x 1290 1565 x 845 x 1290 1870 x 845 x 1290	1200 x 600 x 770 1505 x 600 x 770 1810 x 600 x 770	1260 m ³ /h 1580 m ³ /h 1900 m ³ /h --- 0,40 m/s	<ul style="list-style-type: none"> Digital control panel: Monitoring elapsed time of fan, UV, alarms, lighting (normal or UV) and UV irradiation programmable time Power socket in working area Stand by air speed 	<ul style="list-style-type: none"> Support frame UV germicidal kit Gas, vacuum and nitrogen tab Stainless steel bar with 4 hooks Alarm system to indicate clogging of HEPA/ULPA filter Class 10, particle counting certification IQ OQ certifications
Mini H	798 x 795 x 1157	745 x 625 x 800	860 m ³ /h --- 0,40 m/s		
CLF Series CLF 475 CLF 575 CLF 675	1290 x 890 x 1350 1595 x 890 x 1350 1900 x 890 x 1350	1190 x 580 x 730 1495 x 580 x 730 1800 x 580 x 730	0,45 m/s	<ul style="list-style-type: none"> Microprocessor control with alarms and parameters Low sound level Sloped side windows (safety glass) 1,5 - 2 mm epoxy coated steel White laminated worktop 	<ul style="list-style-type: none"> Support frame Taps (natural gas, vacuum, N₂, O₂ etc) Stainless Steel 304 worktop Electrical socket(s) UV light Stainless Steel bar with (6 or 8) hooks FAT / SAT / IQ / OQ

Extraction Cabinets

MODEL	EXTERNAL DIMENSIONS mm (WxDxH)	INTERNAL DIMENSIONS mm (WxDxH)	AIR VELOCITY	STANDARD EQUIPPED WITH	OPTIONS
NEG GreenLine NEG 2 NEG 3 NEG 4 NEG 5 NEG 6	680 x 750 x 1000 985 x 750 x 1000 1290 x 750 x 1000 1595 x 750 x 1000 1900 x 750 x 1000	580 x 450 x 605 885 x 450 x 605 1190 x 450 x 605 1495 x 450 x 605 1800 x 450 x 605	0,45 m/s *	<ul style="list-style-type: none"> Energy saving EC fans Low sound level Ergonomically sloped side window (safety glass) User-friendly control Easy replaceable HEPA- and pre-filter Fan free of contamination Waterproof coated plywood body Manufactured according standards of L.N.A. (Laboratory of Dutch Pharmacists) 	<ul style="list-style-type: none"> With or without worktop Support frame FL light FAT / SAT / IQ / OQ
NEG 2 AP NEG 3 AP	690 x 620 x 800 995 x 620 x 800	627 x 370 x 470 957 x 370 x 470	* adjustable by operator		

Cold Storage

MODEL	EXTERNAL DIMENSIONS mm (WxDxH)	INTERNAL DIMENSIONS mm (WxDxH)	RANGE	STORAGE CAPACITY	STANDARD SPECS	OPTIONS
Igloo ULT Upright freezers						
U445	705 x 901 x 1991	490 x 608 x 1500	-86 °C	445 l	<ul style="list-style-type: none"> • VIP insulation • Standard Stainless Steel interior • Insulated Stainless Steel inner doors • Ecological refrigeration • Low power consumption • Low sound level • Microprocessor control on eye level 	<ul style="list-style-type: none"> • Storage racks & boxes • Chart Recorder • Water cooled condenser • CO₂ and LN₂ backup system • IQ/OQ • Wireless monitoring & alarm
U570	845 x 901 x 1991	630 x 608 x 1500	-86 °C	570 l		
U830	1135 x 901 x 1991	920 x 608 x 1500	-86 °C	830 l		
U445-45	705 x 901 x 1991	490 x 608 x 1500	-45 °C	445 l		
U570-45	845 x 901 x 1991	630 x 608 x 1500	-45 °C	570 l		
U830-45	1135 x 901 x 1991	920 x 608 x 1500	-45 °C	830 l		
						
Igloo ULT Chest freezers						
C370	1267 x 872 x 1073	725 x 660 x 784	-86 °C	370 l	<ul style="list-style-type: none"> • VIP insulation • Standard Stainless Steel interior • Ecological refrigeration • Low power consumption • Low sound level • Microprocessor control on sloped panel 	<ul style="list-style-type: none"> • Storage racks & boxes • Chart Recorder • Water cooled condenser • CO₂ and LN₂ backup system • IQ/OQ • Wireless monitoring & alarm
C620	1742 x 872 x 1073	1200 x 660 x 784	-86 °C	620 l		
C820	2142 x 872 x 1073	1600 x 660 x 784	-86 °C	820 l		
C370-45	1267 x 872 x 1073	725 x 660 x 784	-45 °C	370 l		
C620-45	1742 x 872 x 1073	1200 x 660 x 784	-45 °C	620 l		
C820-45	2142 x 872 x 1073	1600 x 660 x 784	-45 °C	820 l		
						
Portable freezers						
SF8025	695 x 350 x 460	335 x 225 x 340	-86 °C	25 l	<ul style="list-style-type: none"> • Stirling cooling system • True portability (18 Kg empty) • 12 V or 230 V • Low power consumption • Low sound level • Microprocessor control 	<ul style="list-style-type: none"> • Storage basket • Trolley • UPS power backup • Car cigarette plug • IQ/OQ
SF4025	695 x 350 x 460	335 x 225 x 340	-45 °C -20 °C +4 °C	25 l		
						
Slimline Laboratory freezers						
LF130	630 x 567 x 850	540 x 415 x 460	-20 °C	130 l	<ul style="list-style-type: none"> • Highest temperature uniformity and recovery • Standard Stainless Steel interior • Ultra safe temperature control and alarm • Low power consumption • Low sound level • Microprocessor control on sloped panel 	<ul style="list-style-type: none"> • Sliding drawers or shelves boxes • Chart Recorder • Lexan inner doors • Natural refrigerants • IQ/OQ • Wireless monitoring & alarm
LDF130	630 x 567 x 850	540 x 415 x 460	-30 °C	130 l		
LF700	710 x 800 x 1985	590 x 675 x 1380	-20 °C	610 l		
LDF700	710 x 800 x 1985	590 x 675 x 1380	-30 °C	610 l		
LF1400	1420 x 800 x 1985	1300 x 675 x 1380	-20 °C	1325 l		
						

MODEL	EXTERNAL DIMENSIONS mm (WxDxH)	INTERNAL DIMENSIONS mm (WxDxH)	RANGE	STORAGE CAPACITY	STANDARD SPECS	OPTIONS
Slimline Laboratory refrigerators LR130 LR130G LR700 LR700G LR1400 LR1400G LRF300	630 x 567 x 850 630 x 567 x 850 710 x 800 x 1985 710 x 800 x 1985 1420 x 800 x 1985 1420 x 800 x 1985 710 x 800 x 1985	540 x 415 x 460 540 x 415 x 460 590 x 675 x 1380 590 x 675 x 1380 1300 x 675 x 1380 1300 x 675 x 1380 590 x 675 x 590 (x2 compartments)	+4 °C +4 °C +4 °C +4 °C +4 °C +4 °C -35 °C/+4 °C	130 l 130 l 610 l 610 l 1325 l 1325 l 2 x 286 l	<ul style="list-style-type: none"> • Highest temperature uniformity and recovery • Standard Stainless Steel interior with drawers • Ultra safe temperature control and alarm • Low power consumption • Low sound level • Microprocessor control on sloped panel 	<ul style="list-style-type: none"> • Sliding drawers or shelves boxes • Chart Recorder • Lexan inner doors • Natural refrigerants • IQ/OQ • Wireless monitoring & alarm
Slimline Blood Bank & combinations BB130 BB700 BB1400 BP700 BBP300 Blood bank series come standard with Stainless Steel drawers and chart recorder	630 x 567 x 850 710 x 800 x 1985 1420 x 800 x 1985 710 x 800 x 1985 710 x 800 x 1985	540 x 415 x 460 590 x 675 x 1380 1300 x 675 x 1380 590 x 675 x 1380 590 x 675 x 590 (x2 compartments)	+4 °C +4 °C +4 °C -35 °C -35 °C/+4 °C	130 l 610 l 1325 l 610 l 2 x 286 l	<ul style="list-style-type: none"> • Highest temperature uniformity and recovery • Standard Stainless Steel interior with drawers • Ultra safe temperature control and alarm and chart recorder • Low power consumption • Low sound level • Microprocessor control on sloped panel 	<ul style="list-style-type: none"> • Natural refrigerants • IQ/OQ • Wireless monitoring & alarm


Ice Flake Machine

MODEL	EXTERNAL DIMENSIONS mm (WxDxH)	INTERNAL DIMENSIONS mm (WxDxH)	RANGE	STORAGE CAPACITY	STANDARD SPECS	OPTIONS
Ice Flake Machine IF90 IF150	500 x 660 x 690 738 x 690 x 920	90 kg / 24 h 150 kg / 24 h	0 °C 0 °C	30 kg 55 kg	<ul style="list-style-type: none"> • Safety system which switch off ice production with sensor • Stainless Steel exterior • Adjustable feet • Easy to clean condenser filter • Low sound level 	<ul style="list-style-type: none"> • Internal water filter • Filter cartridge

Laboratory Freeze Dryers

MODEL	CONDENSER CAPACITY	CONDENSER TEMPERATURE	STANDARD EQUIPPED WITH	OPTIONS
LyoQuest Series LyoQuest -55 LyoQuest -85 LyoQuest Plus Series LyoQuest Plus -55 LyoQuest Plus -85	8 l 8 l	- 55 °C - 85 °C - 55 °C - 85 °C	<ul style="list-style-type: none"> • PLC controlled • Touch screen interface • Automatic or semi-automatic working mode 	<ul style="list-style-type: none"> • Chamber with 3 thermostated shelves with manifold (optional) for vials or bulk freeze drying • 8 tube manifold 18 mm Ø for flasks (connection 29/32) • 40 tube manifold 13 mm Ø for ampoules
LyoAlfa 10/15 Plus Series LyoAlfa 10 -55 Plus LyoAlfa 10 -85 Plus LyoAlfa 15 -55 Plus LyoAlfa 15 -85 Plus	16,5 l 16,5 l 22 l 22 l	- 55 °C - 85 °C - 55 °C - 85 °C	<ul style="list-style-type: none"> • PLC controlled • Touch screen interface • Automatic or semi-automatic working mode 	<ul style="list-style-type: none"> • Chamber with 4 thermostated shelves for vials or bulk freeze drying • 12 tube manifold 18 mm Ø (connection 29 / 32) for flasks
LyoBeta Series LyoBeta 3PS LyoBeta 4PS LyoBeta 5PS LyoBeta 6PL	30 l 30 l 30 l 30 l	- 80 °C - 80 °C - 80 °C - 80 °C	<ul style="list-style-type: none"> • PLC controlled • Touch screen interface • Fully programmable • Stoppering device • Valve chamber condenser • Microsuite monitoring software • Shelves temperature range: -60 to 80 °C <p> LyoBeta 3PS: 3+1 shelves, 0.45 m² of useful surface LyoBeta 4PS: 4+1 shelves, 0.60 m² of useful surface LyoBeta 5PS: 5+1 shelves, 0.75 m² of useful surface LyoBeta 6PL: 6+1 shelves, 0.90 m² of useful surface </p>	<ul style="list-style-type: none"> • Cleanroom configuration • Product trays • Spacing devices for shelf clearance adjustment • Vent filter • Vacuum control system • Sampling thief device • Side manifold • Eutectimeter • Humidity sensor • LyoSuite software

Wireless monitoring & alarm system

	PLUG & PLAY DATA CONTROL	SENSORS
	Wireless Lab is the plug & play solution for easy monitoring and safe storage of (temperature) data. Monitor your laboratory equipment without using any paper, installation time or software. Just check your equipment performance on every PC with internet access. Additionally you can receive temperature alarms on your mobile phone or e-mail address. Data transfer with Ethernet and/or GPRS. Data accessible on www.wirelesslab.eu	-200 to +200 °C 0 to 20 % CO ₂ 0 to 100 % RH other sensor inputs possible: 0-10 V 4-20 mA digital inputs

Notes

Blank lined paper for taking notes, featuring horizontal dashed lines.



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