



FreezeDry

Freeze Dryers

Technical specifications:

LIO-2 FP

External dimension (WxDxH) in mm	350 x 500 x 530 mm
Ice condenser capacity (max. material)	2 kg
Ice condenser temperature (°C)	– 45
Ice condenser defrost	Reverse ref. system less than 3 min
Number of shelves	4
Shelf size (WxD) in mm	120 x 400
Shelf surface	0.05 m ² x 4 = 0,2 m ²
Shelf spacing	33 mm
Shelf heating	YES automatic
Cooling	Air-cooled hermetic single compressor system
User interface	WIFI – web app Cloud
Door	Fully transparent - Closure by the vacuum of the pump
Temperature probe	Shelf & Condenser temperature + vacuum visible via the web application!
Vacuum pump	Suggested: Dry
Power supply	230V / 50 Hz
Wattage (W)	950
Mass (kg)	44kg
Shipping box size mm	450x600x700(not stockable !)



Technical specifications:	LIO-3 FP
External dimension (WxDxH) in mm	425 x 640 x 730 mm
Ice condenser capacity (max. material)	3 kg
Ice condenser temperature (°C)	– 50
Ice condenser defrost	Reverse ref. system
Number of shelves	4
Shelf size (WxD) in mm	220 x 310
Shelf surface	0.27 m ²
Shelf spacing	37 mm
Shelf heating	YES automatic
Cooling	Air-cooled hermetic single compressor system. Material freezing included.
User interface	Analog + WIFI – web app Cloud
Door	Fully transparent
Temperature probe	ShelfTemperature, Condenser temperature vacuum (Material temperature optional) web application view available!
Vacuum pump	Build-in Edwards High end Dry pump
Power supply	230V / 50 Hz
Wattage (W)	950
Mass (kg)	53kg
Shipping box size mm	550x750x900(not stockable !)



Technical specifications:

LIO-10 FP

External dimension (WxDxH) in mm	895 X 670 x 470 mm
Ice condenser capacity (max. material)	10 kg
Ice condenser temperature (°C)	– 45
Ice condenser defrost	Reverse ref. system less than 10 min
Number of shelves	5
Shelf size (WxD) in mm	325 x 530
Shelf surface	0.172 M ² X 5 = 0,86 M ²
Shelf spacing	50 mm
Shelf heating	YES automatic
Cooling	Air-cooled hermetic single compressor system
User interface	WIFI – web
Door	Fully transparent single-handed closing
Temperature probe	Shelf & Condenser temperature + vacuum visible via the web on local WiFi
Vacuum pump	Dry vacuum pump
Power supply	230V / 50 Hz
Wattage (W)	1500 freeze dryer (without the vacuum pump)
Mass (kg)	105 kg
Shipping box size mm	1000x800x650(not stockable !)



Technical specifications:	LIO-20 FP
External dimension (WxDxH) in mm	1045 x 760 x 795
Ice condenser capacity (max. material)	20 kg
Ice condenser temperature (°C)	-45
Ice condenser defrost	Reverse ref. system less than 15 min
Number of shelves	10
Shelf size (WxD) in mm	325 x 530
Shelf surface	0.172 m ² x 10 = 1,72 m ²
Shelf spacing	50 mm
Shelf heating	YES automatic
Cooling	Air cooled hermetic single compressor system
User interface	WIFI – web
Door	Fully transparent single-handed closing
Temperature probe	Shelf & Condenser temperature + vacuum
Vacuum pump	Dry vacuum pump
Power supply	230V / 50 Hz
Wattage (W)	1700 freeze dryer (without the vacuum pump)
Mass (kg)	176 kg
Shipping box size mm	1200x800x1000(not stockable !)



Technical specifications:

LIO-80 FP

External dimension (WxDxH) in mm	1905 x 1150 x 1890
Ice condenser capacity (max material)	80 kg
Ice condenser temperature (°C)	– 50
Ice condenser defrost	Reverse ref. system less than 30 min
Number of shelves	20 +1 guardian
Shelf size (WxD) in mm	660 x 530
Total shelf surface	0.349 m² x 20= 7 m²
Shelf spacing	50 mm
Shelf heating and cooling	YES, fluid circulation
Cooling	Air-cooled hermetic single compressor system
User interface	WIFI - web and manual
Door	Metal with observation port
Data and cycle report	Shelf temperature, Condenser temperature, Vacuum
Vacuum pump	Recommended dry technology
Power supply	3 x 400 V 50 Hz, min. 32 Amp fuse
Wattage (kW)	13 freeze dryer (without the vacuum pump)
≈ Mass (Kg)	1000 (without the vacuum pump)
Shipping box (WxDxH) in mm	2070 x 2310 x 2080



Technical specifications:		LIO-300 FP
External dimension (WxDxH) in mm		≈ 2600 x 5000 x 2300
Ice condenser capacity (max material)		300 kg
Ice condenser temperature (°C)		– 50
Ice condenser defrost		Reverse ref. system less than 30 min
Number of trolleys		3
Number of shelves		25 per trolley
Shelf size (WxD) in mm		455 x 655
Total shelf surface		22,5 m ²
Shelf spacing		50 mm
Shelf heating		YES programable or automatic
Cooling		Air-cooled hermetic single compressor system
User interface		Siemens HMI
Door		Metal with 3 observation ports
Temperature probe		Shelf temperature, Condenser temperature, Material temperature
Vacuum		Pirani vacuum gauge
Vacuum pump		Dry + oil vane combo
Power supply		3 x 400 V 50 Hz
Wattage (kW)		60





01254 831375



sales@withnellsensors.co.uk | service@withnellsensors.co.uk



withnellsensors.co.uk



Withnell Sensors, The Old Silk Mill, Withnell, Chorley, Lancashire PR6 8RX

Withnell Sensors
Temperature & Humidity Specialists