

Technical Data

work bench WB220, WB230



Work Bench WB220	type A0.2562.0000
Work Bench WB230	type A0.2561.0000
Work Bench WB220 med	type A0.2562.1000
Work Bench WB230 med	type A0.2561.1000

Dimensions		
Dimensions of the device	1920 x 920 x 2200 mm (length x width x height) ± 150 mm electrical height adjustable	
Working height (height of the Operator Ports)	1360 mm ± 150 mm electrical height adjustable	
Working area	600 x 450 x 300 mm (length x width x height)	
Freezer area	400 x 450 x 550 mm (length x width x height)	
Size of transport container, max.	300 x 300 x 400 mm (length x width x height)	
Tare weight	250 kg	
Distributed load	< 250 kg/m ²	
Exhaust flap	outside Ø 90,	
Freezer	WB220	WB230
Number of Freezers	2	3
Size of freezing basket	280 x 150 x 100 mm (2x)	280 x 105 x 100 mm (3x)
Sample height, max.	50 mm	50 mm
Freezing volume per freezer, max.	300 ml	200 ml
Freezing volume per sample, max.	100 ml	50 ml
Temperatures		
Working area	configurable till -130°C	
Freezer area	10°C bis -160°C	
Reaching working temperature	45 min (-100°C)	

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Cooling medium	Nitrogen, flüssig (LN2)
Nitrogen Connection	3/8 " , pressure 0,5...2bar
Filling line	tube DN10; customized length LN hoses supplied by Askion are equipped on the extraction side (connection to the nitrogen supply) with a sealing head 74 with union nut 3/4inch-16 UNF and on the device side with a hexagon male nipples R3/8inch.
Nitrogen supply	Connection with max. 200 l mobile Nitrogen supplying. Connection with stationary Nitrogen net only with Emergency cable to the security center.
Consumption	
Preparing for operation	23 kg liquid nitrogen Working area -100°C, freezing area -170 C
Freezing	4,5 kg/h liquid nitrogen Freezing with 2 freezers and different gradient
Connection	
Electrical connection	230 V, +10%, -15%, 50 Hz P _{max total} <1,0 kVA 1x 16A, single phase
PC	Panel-PC 17" LCD, touchscreen, an swivel arm, USB, Ethernet, barcode
Gloves, heatable	max. power 120W
Connection to LIS/ HIS	configurable Interface (customized)
Monitoring system	Soft- and hardware provided against flooding
Accident	relais output opener/closer, 9pol. D-Sub To connect with security center..
Accessories	
Barcode reader	one-/ two- dimensional Inside or outside the working area mounted
Transport container	with different inserts, depend on sample format
Freezing inserts	sample holders during freezing process (for straws, vials)
Cryo forceps	with insulated handle, ridged spike 60°
Operator Port	with gloves closed
Gloves	electrically heatable
Surrounding conditions	
Temperatures	+15 °C till +25 °C
Relative air humidity	rel. 15 % till 65 %
Ventilation	- has to be adjusted to room size - pressure neutral, meaning no direct suction effect at the

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	<p>device</p> <ul style="list-style-type: none"> - bottom suction during simultaneous fresh air supply - Indications: operation: max. 30m³/h
Floor	<p>Should be adapted for LN2 (particular resins, high-grade steel, also partly varnished concrete).</p>
Working safety	<p>Oxygen deficiency– warning system recommendable. Pay attention to the country-specific laws for working with LN2</p>
Fire safety regulations	<p>Fire extinguisher, special instructions of the local public authorities</p>

More detailed information about installation requirements in the document “PRE-INSTALLATION C-line®”.