



ninoSAFE

Superior  
Product  
Protection

## Microbiological Safety Cabinet ninoSAFE XL EN 12469 and optionally DIN 12980

### Superior product protection

**Nino Labinterior** manufactures intelligent engineered biological safety cabinets that provide clean air solutions for a wide range of applications, ranging from routine work with potentially hazardous samples to handling cytotoxic compounds. ninoSAFE provides the level of operator, product and environmental protection you need and every cabinet is designed to make working safely as easy and as comfortable as possible.

### Engineered by Experience - Compact design but still best usable inner dimensions.

**ninoSAFE XL Safety Cabinet** has extraordinary inner dimensions for use where a normal MSC not has sufficient inside space. Interior height is 1000 mm and interior depth is 900 mm. The complete front can be opened to easily fit in large devices, e.g. a pipetting robot. ninoSAFE XL is manufactured according to EN 12469 and can optionally be delivered as a threefilter cabinet with H14 prefilters according to DIN12980.

**ninoSAFE XL** has large internal dimensions and therefore of course also large external dimensions. However, due to the smart design it is possible to finally assemble the unit on site in case of narrow doorways.

**ninoSAFE** biological safety cabinets have been tested and validated at customers since 2015 reassuring their performance, reliability, quality and ease of use. The latest technology in combination with State-of-the art technique ninoSAFE offers advanced products yet easy to clean and simple to maintain. Scandinavian design brings ergonomics to a higher level. Dimmable LED light comes as standard feature together with remarkably low noise levels. Support stands are available in either manually or electrically adjustable, all in clean room design.

Nino Labinterior's motto is "Special is our standard" meaning that all our products can be custom made and configured to meet every specific requirement within reasonable time and budget. We work closely with our customers to create and support biological safety cabinets that offer unmatched quality, precision and reliability with highest level of cleanability.



Engineered by Experience

## Worldwide remote support

ninoSAFE LAF cabinets can be order with a unique remote support offering unmatched user support, trouble shooting, adjustments and update service. Furthermore the system allows up to 12 months of continuous data backup. With customer approval we access the cabinet remotely wherever it is installed, requiring only open internet access. High security and without managing firewalls.

## Noise

Field case studies prove that ninoSAFE Plus cytotoxic cabinets measure <57 dB(A) when operating at 0,5 m/s inflow and 0,35 m/s down flow. By applying the latest filter and fan technology into our products we know what can be achieved.

## Weighing

A wide range of weighing accessories are available. Since ninoSAFE is close to vibration free it offers weighing inside at 4 decimals without additional support stand.

## Standard Features

All ninoSAFE biological safety cabinets come with dimmable LED lighting. Adjustable or electrical elevation support stands at your choice operated directly from the OP touch panel. UV-light is positioned with easy access and available in either fluorescent standard tube or LED offering incomparable long life.

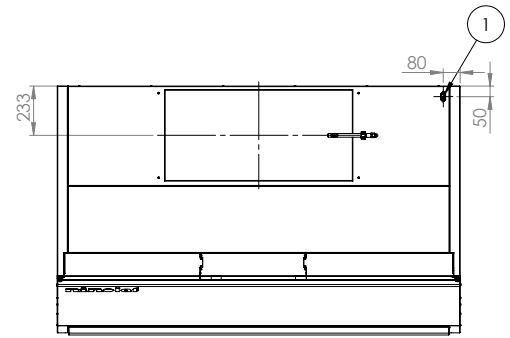
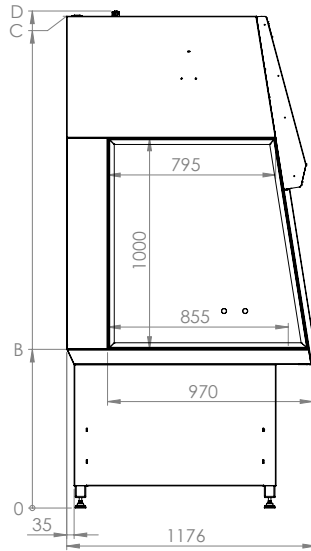
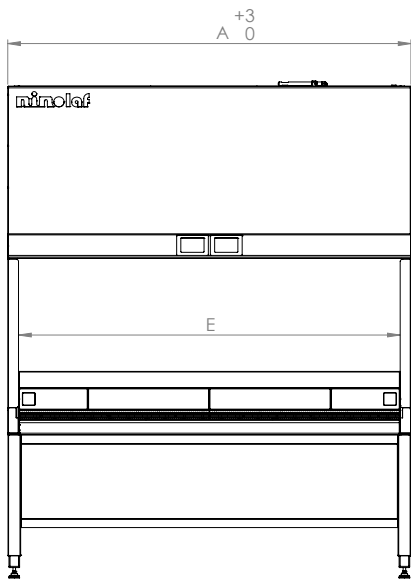
ninoSAFE is designed to be comfortable and ergonomically without arm rests thanks to intelligent designed v shaped table tops allowing operator to work comfortably without obstructing the air vents.

*"Special is our Standard"*

Technical specifications ninoSAFE XL				
Type		nS XL 1200	nS XL 1500	nS XL 1800
<b>Dimensions</b>				
External dimensions, WxDxH	mm	1303x1176x2350(2375)	1603x1176x2350(2375)	1907x1176x2350(2375)
Internal dimensions, WxDxH	mm	1200x855(970)x1000	1500x855(970)x1000	1800x855(970)x1000
Front window opening	mm	200 (adjustable 180 - 330)		
Work height, standard support stand	mm	700-1050		
Minimum door way		1177 mm, but can be finally assembled on site		
<b>Weight</b>				
Equipment	kg	310	350	390
<b>Air velocity</b>				
Vertical flow	m/s	0.28 (adjustable 0.25-0.53)		
Inflow	m/s	0.45 (adjustable 0.45 - 0.55)		
Deviation	±%	<8	<8	<8
<b>Noise</b>				
Noise level ISO3744	dB(A)	56	57	57
<b>Ventilation</b>				
Down flow rate	m <sup>3</sup> /h	960	1200	1440
Exhaust flow rate	m <sup>3</sup> /h	390	480	580
<b>Filter technology</b>				
Main/Exhaust	Type	HEPA H14 EN1822, 99,999% at 0,3 µm particle size		
<b>Light</b>				
LED	Lux	0-2000, dimmable		
<b>Electrical data</b>				
Voltage frequency	V/Hz	220-240/50-60 or 110-120/50-60		
Power consumption, from	W	140	180	190

Our models are built and tested according to national and international standards including: EN12469, DIN12980

Superior  
Lab  
Solutions



**nino SAFE XL specifications**

Cabinet	A - Length	B - Work height	C - Top Cabinet	D - Highest point	E - Work opening	W - Weight
nino SAFE 1200 XL	1303 mm	700-950 mm	2350-2600 mm	2375-2625 mm	1200 mm	310 kilo
nino SAFE 1500 XL	1603 mm	700-950 mm	2350-2600 mm	2375-2625 mm	1500 mm	350 kilo
nino SAFE 1800 XL	1907 mm	700-950 mm	2350-2600 mm	2375-2625 mm	1804 mm	390 kilo



The complete front can be opened to easily fit in large devices

Notes	
POS.	Description
1	Power supply point



Separate control and status/alarm display for clear information



Easy-to-use intuitive user interface with touchscreen



Easy-to-clean electrical outlets and optional USB- and RJ45 outlets



Clean room design adjustable support stand

ninoSAFE - A complete range also available in following models:

- ninoSAFE plus (EN12469, DIN12980)
- ninoSAFE B2
- ninoSAFE XL (EN12469)
- ninoSAFE XL plus (EN12469, DIN12980)

- ninoSAFE Class II (EN12469)
- ninoSAFE Class I (EN12469)
- ninoSAFE horizontal