5 EQUIPMENT DESCRIPTION

5.1 SCOPE OF SUPPLY

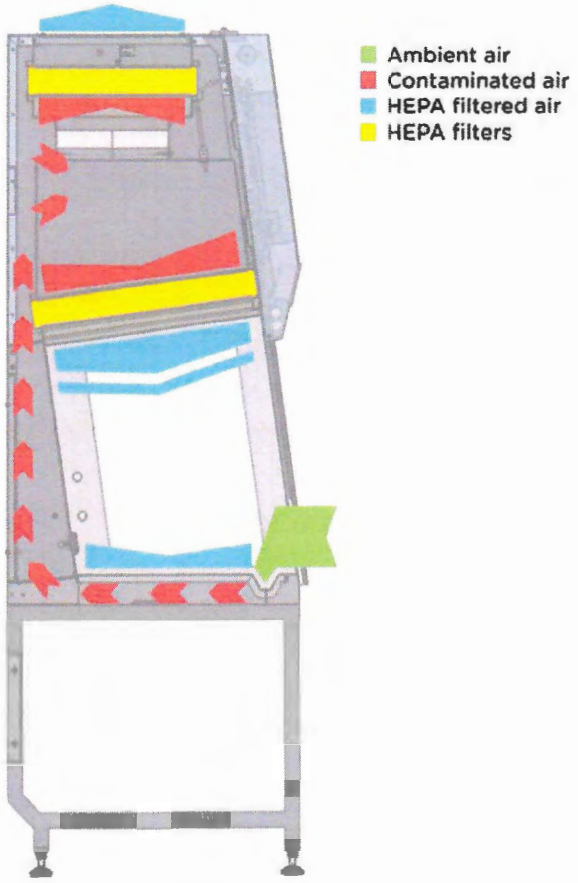
Based on this document, one identical devices will be supplied, each with its own unique serial number and with its own user documentation.

5.2 PURPOSE AND FUNCTION OF THE EQUIPMENT

Microbiological safety enclosure - Class II, is applied in laboratories, manipulating chemical and biological substances and in areas and it provides maximum protection of the operator, the surrounding and the working product.

5.3 FUNCTIONAL DESCRIPTION OF SAFETY CABINET

The cabinet takes a part of the air from the surrounding and returns it to the surrounding after being cleaned through an absolute exhaust filter (can be connected to the exhaust duct – OPTION), the rest of the air is circulating inside the cabinet.

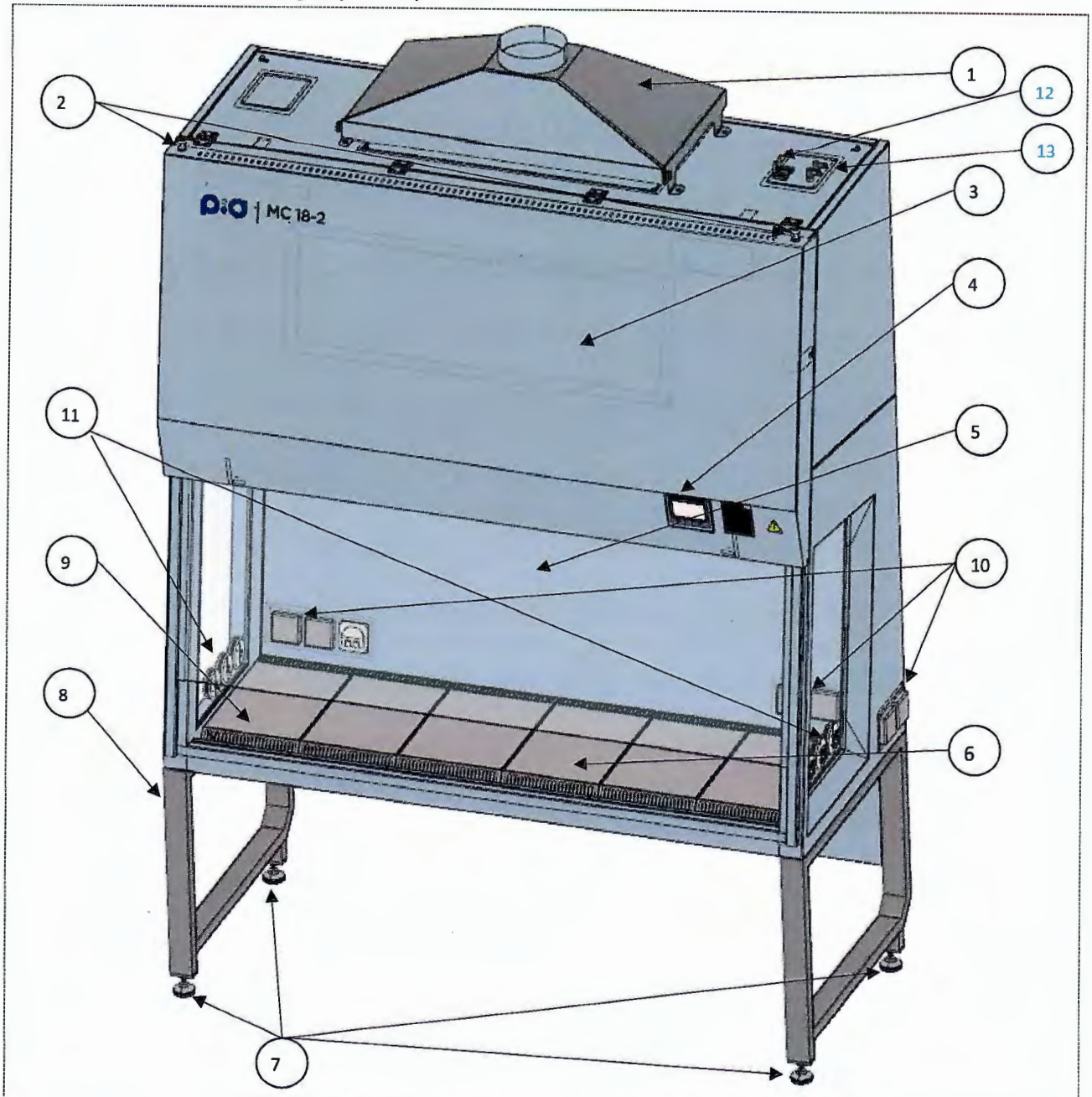


The air is entering the safety cabinet from the lower front side through front aperture and further through cuttings in the working-desk segments. Under the working-desk segments, the entering and the recirculated air are mixing together. Then the air travels through the return flow channel to the upper casing and enters the overpressure hood. A ventilator is pressing a part of the air (ca. 30%) through a H14 (EN 1822) quality exhaust filter to the surrounding (or is connected to exhaust duct - OPTION), the rest of the air (ca. 70%) is being pressed inside the working area through a H14 (EN 1822) quality filter above the working area and through a distribution net. The rates of exhaust respectively entering and recirculating air are ensured by the proportions of the surfaces of the exhaust filter and the filter above the working area.

The distribution net provides a laminar air arrangement above the working area and directs the air vertically to the working surface of the cabinet. The laminar air flow is carrying away the particles, which are generated by the manipulation of the material.

In the front area of the cabinet between the operator and the location of dusting is an air curtain, separating the working area of the cabinet from the surrounding.

Device consist of the following major components:

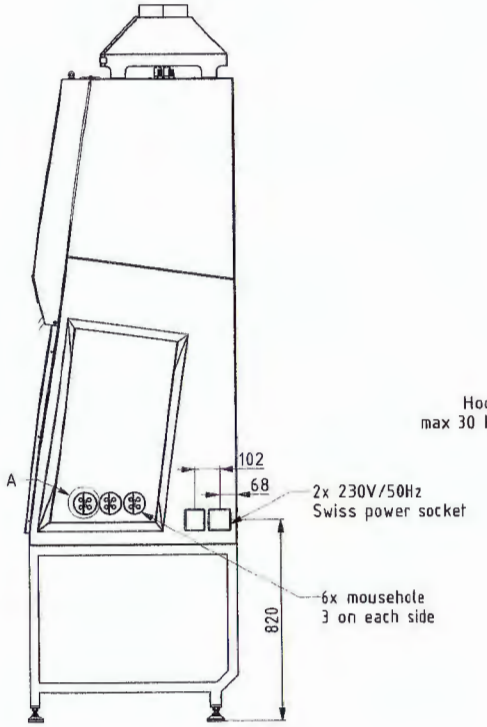


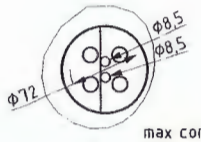
1 Exhaust, protective cover	7 Levelling feet for anchoring
2 Electrical connection: Power plug Type 23 (Switzerland standard), 3m cable (L or R)	8 Support structure
3 Technical area	9 Standard work segments
4 Operating panel	10 Power sockets (2x + 2x + 2x outside)
5 Protective front glass	11 Electrical cable passages (2x)
6 Working area without connections	12 Ethernet connection (2x)
	13 Connectors (2x) – for output signals and VAV

5.4 MATERIAL

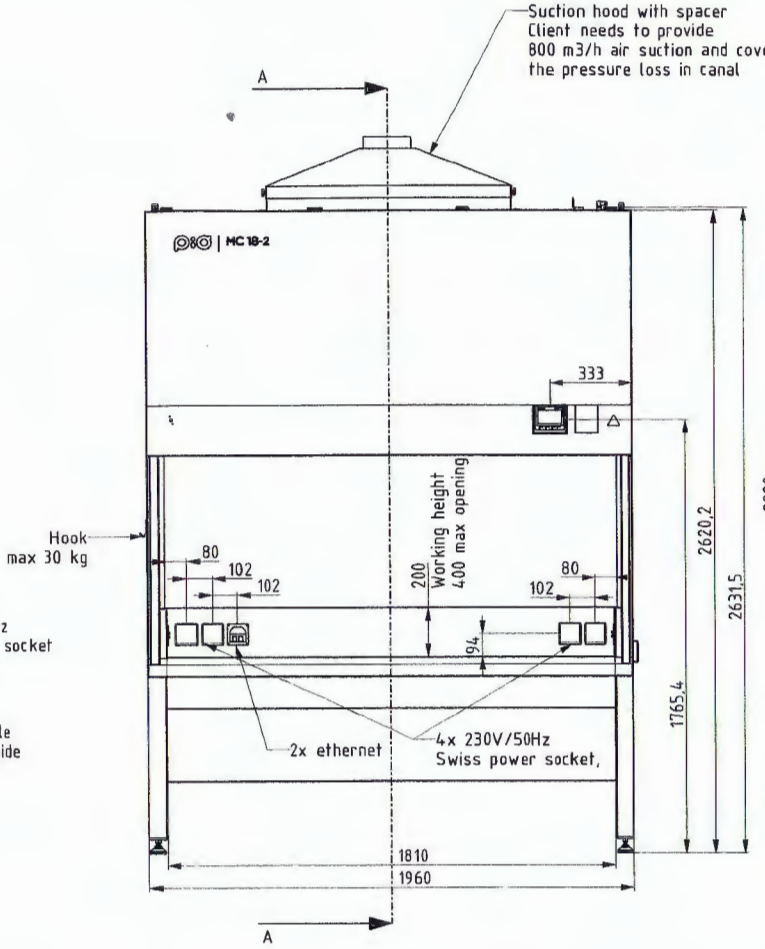
Material used:

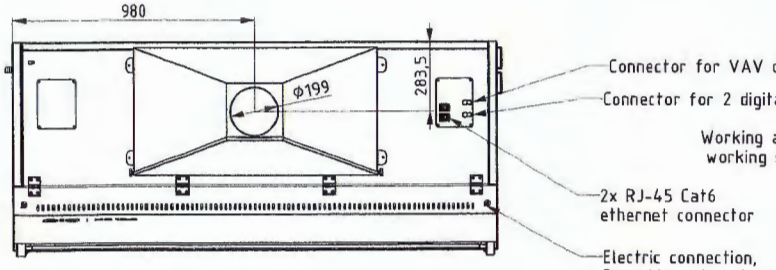
- All exterior surfaces are made mild steel sheet metal, stainless steel AISI 304/EN 1.4301, surfaces brushed – Ra<1,6µm
- All surfaces in working area made of stainless steel AISI 316/EN 1.4404, surfaces brushed – Ra<0,8µm
- Working area segments are made of brushed stainless steel AISI 316L/EN 1.4404; Ra ≤ 0,8 µm. Sheet metal thickness: 1,5mm
- Support structure made of mild steel tubing and sheet metal, stainless steel AISI 304/EN 1.4301, surfaces brushed – Ra<1,6µm

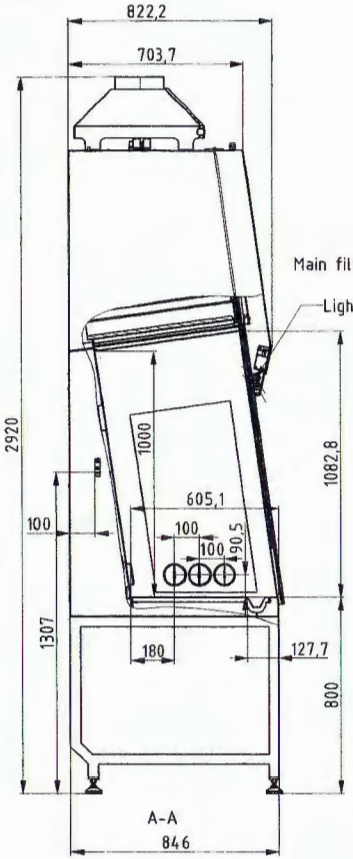


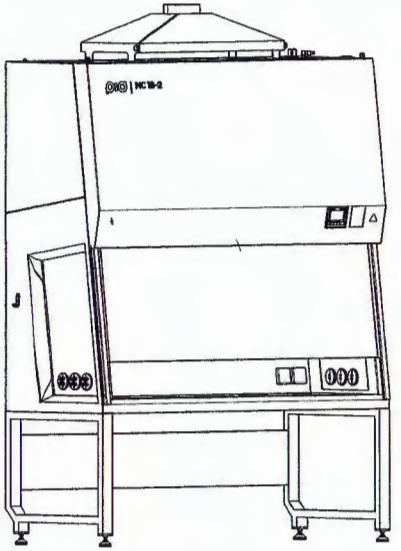


max connector size
Φ70 mm









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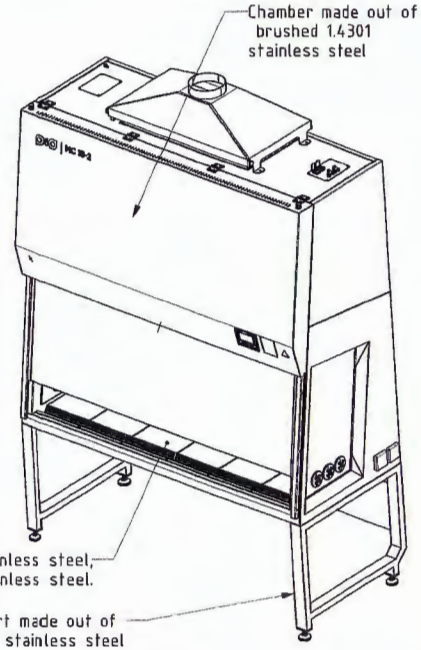

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Digitally signed by Katia Santos
DN: C=US, E=katia.santos@crbgroup.com, O=CRB, OU=Engineer, CN=Katia Santos
Date: 2022.10.17 14:00:58+02'00'

Katia Santos

Drawn by: Toni Zura, 10.10.2022	Surface Finishing	Material	Mass (kg) 600 kg	
Heat treatm. / Surface Protection	AssemblyDrawing MC 18-2 S			
p:o Clean visions.	Dimensions without tolerance: Generally ISO 2768-mK, Welding: ISO 2768-cK	Model 101125451	Drawing number 230128_00_220_DRW	Ver. DRW A2.10
Any and all information received by you from us shall be held and kept confidential and shall not be disclosed by you to any third party except with prior written consent of Iskra PIO d.o.o.			Scale: 1:15	A2 Page 1/1