

5 EQUIPMENT DESCRIPTION

5.1 SCOPE OF SUPPLY

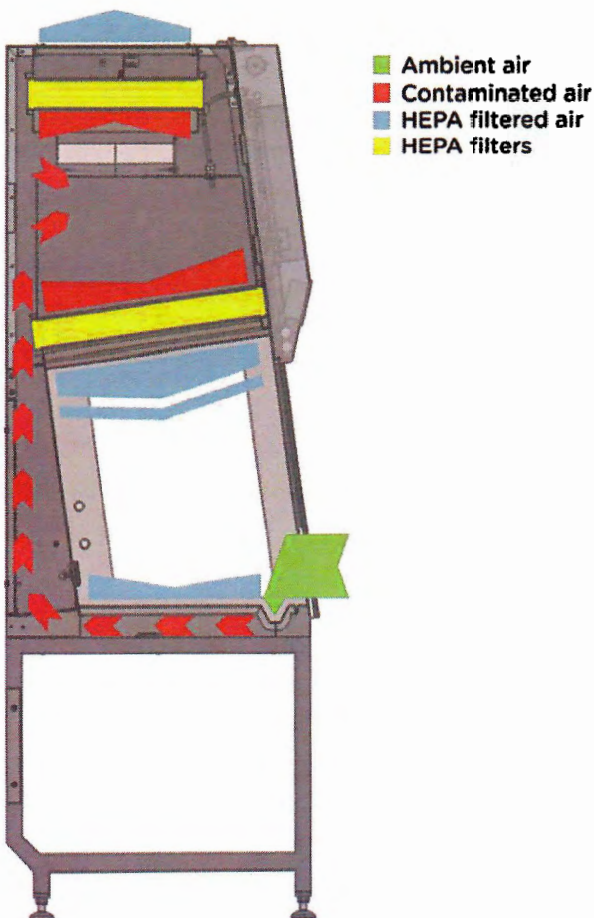
Based on this document, one identical devices will be supplied, each with its own unique serial number and with its own user documentation.

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:



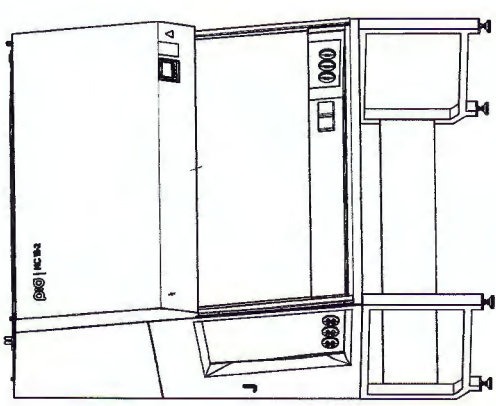
- 1 Exhaust, protective cover
- 2 Electrical connection: Power plug Type 23 (Switzerland standard), 3m cable (L or R)
- 3 Technical area
- 4 Operating panel
- 5 Protective front glass
- 6 Working area without connections

- 7 Levelling feet for anchoring
- 8 Support structure
- 9 Standard work segments
- 10 Power sockets (1x + 1x)
- 11 Electrical cable passages (2x)
- 12 Ethernet connection (2x)

5.4 MATERIAL

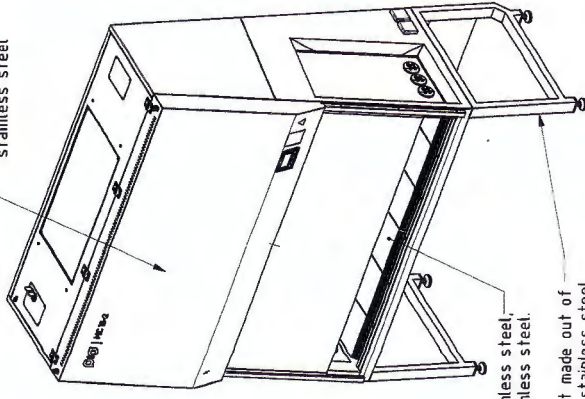
Material used:

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



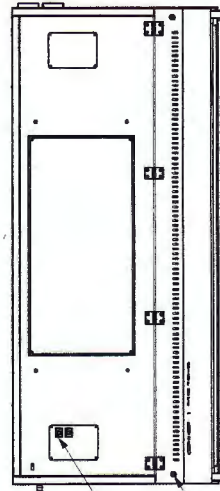
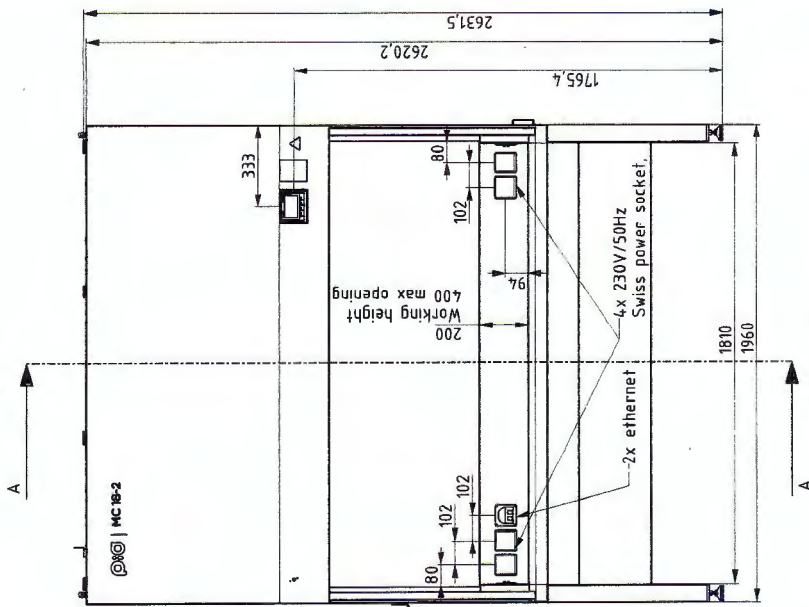
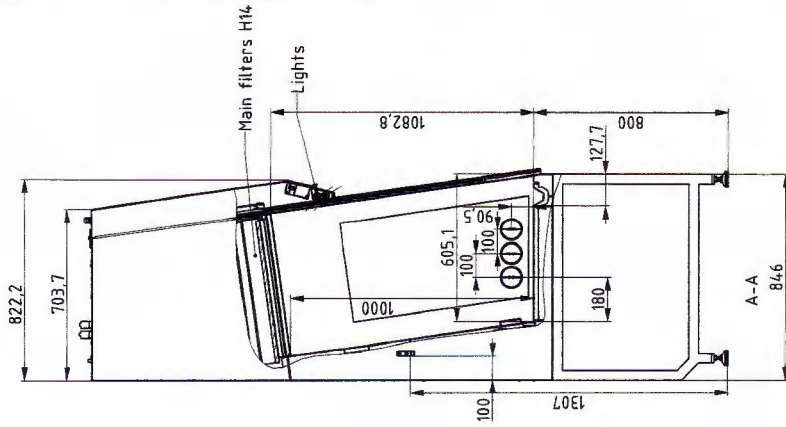
Chamber made out of brushed 1.4301 stainless steel

1:20



Support made out of brushed 1.4301 stainless steel

1:20



Hook max 30 kg

2x 230V/50Hz Swiss power socket
6x mousehole 3 on each side



2x RJ-45 Cat16 ethernet connector

Electric connection, 3m cable swiss plug

Electric connection, 3m cable swiss plug

Drawn by: Tom Buis 10.10.2022
 Head of Production: P:O
 Surface Protection: Clean VISIONS.
 Dimensions without tolerance: ISO 2768-MS
 Generally: ISO 2768-MS
 Any and all information required by you, from us, shall be valid and signed configuration that not be discussed by you to any other party, except when specifically noted on drawings.

Temp. Class	ISO 20 2022	Surface Finishing	Material	Mass (kg)	600 kg
<p>P:O Clean VISIONS.</p>					
Drawing number	101106712	Part number	Assembly Drawing MC 18-2 S		
Scale:	1:15	ISO 2768-MS	ISO 2768-MS	ISO 2768-MS	ISO 2768-MS
Year 2000	230125	Scale	x0	220	DRW
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ES - Izjava o skladnosti EC - Declaration of conformity

Podjetje/The Company:

Iskra PIO d.o.o., Trubarjeva cesta 5, 8310 ŠENTJERNEJ, SLOVENIJA

s polno odgovornostjo in skladno s Pravilnikom o varnosti strojev (Uradni list RS, št. 75/08, 66/10, 17/11, 74/11), Priloga IIA, ki v celoti povzema Direktivo 2006/42/EU, Priloga IIA, izjavlja, da je proizvod: / Declares with full responsibility and according to Directive 2006/42/EU, Annex IIA, that the product:

ZAŠČITNA MIKROBIOLOŠKA KOMORA / MICROBIOLOGICAL SAFETY CABINET

Tip/Type: **MC 18-2 S**
Serijska št./Serial no.: **230125_x0**
Leto izdelave/Year of manufacture: **2023**

skladen z zahtevami naslednjih direktiv in naslednjih harmoniziranih standardov:/
is in conformity with the requirements of next directives and with the requirements of next harmonized standards:

- 1) **Varnost strojev / Machinery: 2006/42/ES**
 - ISO 12100:2010
- 2) **LVD 2014/35/EU**
 - EN 61010-1:2010
- 3) **EMC 2014/30/EU**

Zaščitni razred / Protection class

II – EN 12469:2000, DIN 12980:2005

Ime in naslov osebe, pooblaščne za sestavljanje tehnične dokumentacije/Name and address of the person authorised to compile the technical file: **Lojze Hosta, Trubarjeva cesta 5, 8310 Šentjernej, Slovenia**

Kraj in datum/
Place and date:
Šentjernej, 22.03.2023

Žig/Stamp
 **Iskra PIO d.o.o.**
Trubarjeva cesta 5
SI - 8310 Šentjernej

Iskra PIO d.o.o.
General Manager
Andraž Rumpret, univ. dipl. inž.

