

5 EQUIPMENT DESCRIPTION

5.1 SCOPE OF SUPPLY

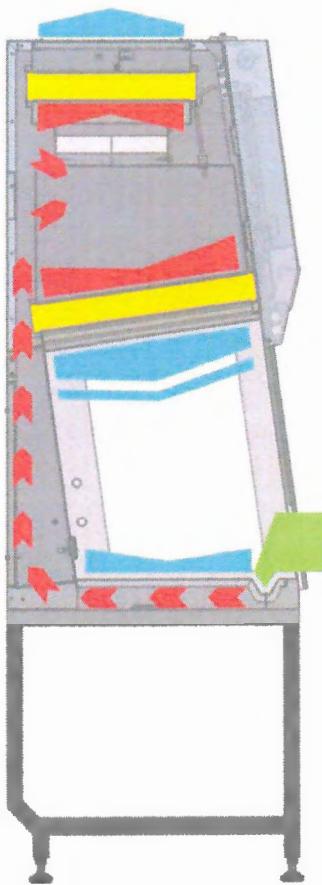
Based on this document, two identical devices will be supplied, each with its own unique serial number and with its own user documentation.

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.

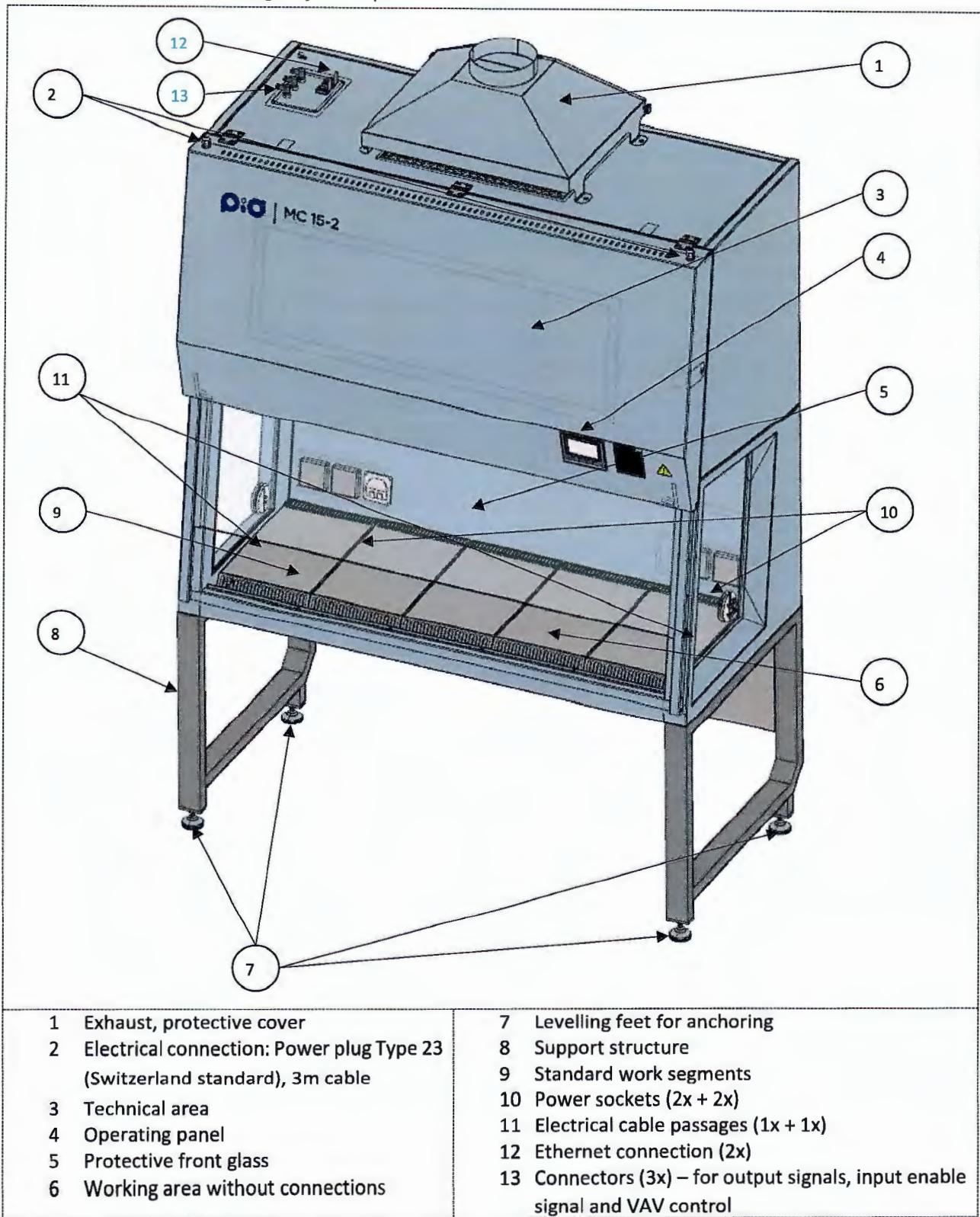


The air is entering the safety cabinet from the lower front side through front aperture and further through cuttings in the working-desk segments. Under the working-desk segments, the entering and the recirculated air are mixing together. Then the air travels through the return flow channel to the upper 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.

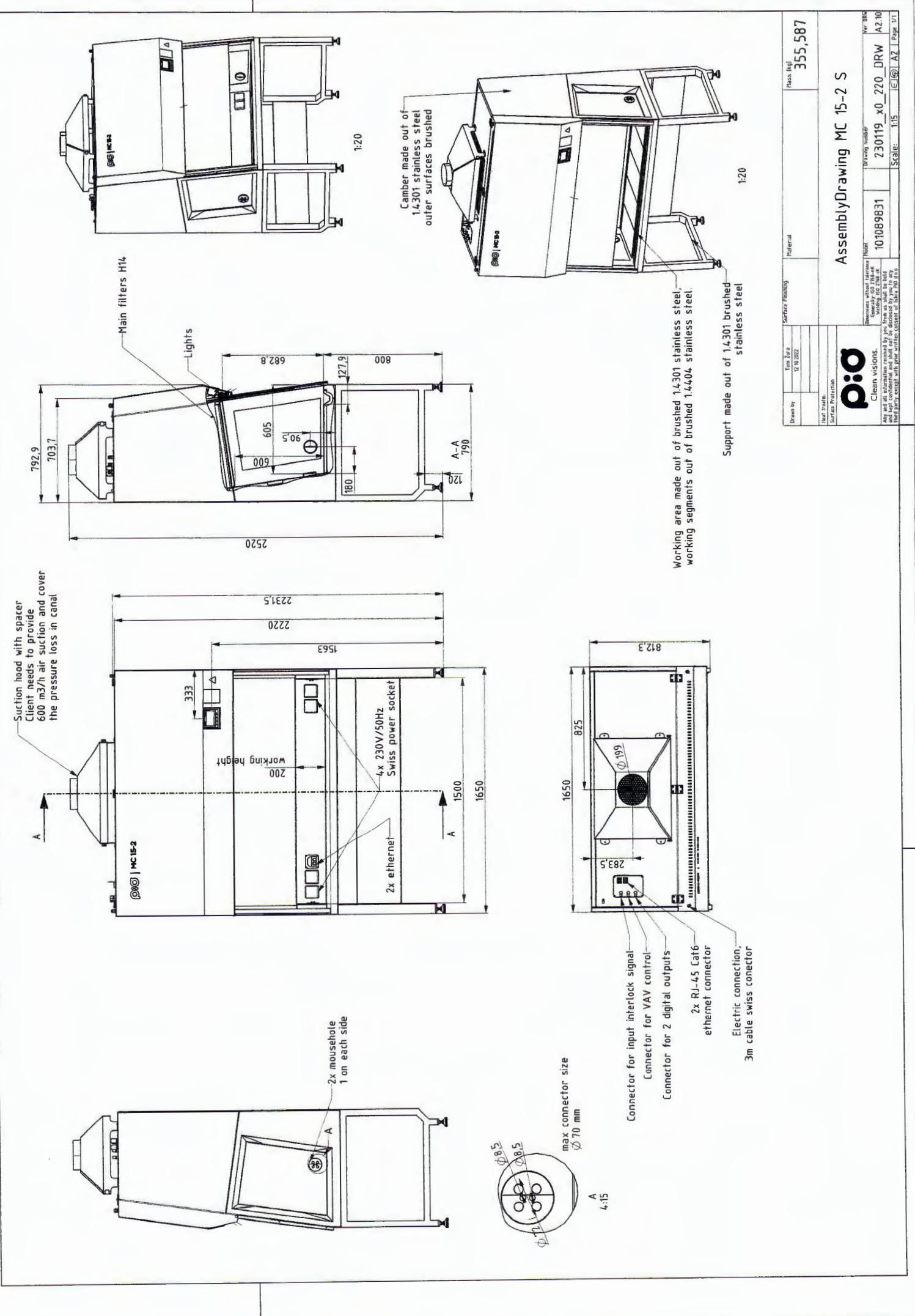
Device consist of the following major components:



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



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 15-2 S**

Serijska št./Serial no.: **230119_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, pooblaščene 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



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General Manager

Andraž Rumpret, univ. dipl. inž.

