RENGGLI SP. Z O.O.
15-399 Białystok, ul. Handlowa 6A
tel. +48 85 710 18 77

Offered device:

LabAirTec laboratory fume hood

Producer: RENGGLI Sp. z o.o.

Fume Hood LabAirTec - brand new device.

Technical parameters:

Dimensions:

1. 1200x960x2400 or 2600 mm
2. 1500x960x2400 or 2600 mm
3. 1800x960x2400 or 2600 mm

Equipped with the S1 system:

- monitoring the correct air flow 3.15 Srauto monitoringas
- microprocessor control of the device
- alarm: acoustic and optical activating when the flow drops below the minimum limit (alarms in accordance with the standard EN 14175)
- equipped with an FM100 controller meeting the PN EN 14175 standard 3.14 valdymo blokas
- has an intuitive control panel located in the right profile of the fume hood at eye level, which informs the user about the correct or incorrect operation of the fume hood; the control panel consists of:
  - ✓ button for switching on / off the fume hood control
  - ✓ light on / off button in the chamber

RENGGLI SP. Z O.O.
15-399 Białystok, ul. Handlowa 6A
tel. +48 85 710 18 77

- ✓ reset button for clearing the acoustic alarm
- ✓ MiniDIN port for connecting PC
- ✓ a red LED indicating that the airflow is too low

- In the event of a power failure, all system data is saved in the controller EEPROM.
- Airflow control thought a static differential pressure sensor with a high level of stability
- Equipped with a Bypass system, providing a near-non-turbulent airflow

RENGGLI SP. Z O.O.
15-399 Białystok, ul. Handlowa 6A
tel. +48 85 710 18 77

- Equipped with a safety switch and a fuse cabinet located in an easily accessible place under the top in a simple way to disassemble the control drawer

- Air extraction module (made of powder coated stainless steel sheet) providing air extraction through a system of patented, optimized profiles. The extraction profiles system is easily disassembled for reprocessing and cleaning (it significantly increases the User's safety); it is a system without double-wall construction of the fume hood; the assembly elements of the extraction systems can be the basis of the "truss" system or be adapted to keep the paws and other elements themselves

RENGGLI SP. Z O.O.
15-399 Białystok, ul. Handlowa 6A
tel. +48 85 710 18 77

- Equipped with 2 230V electrical sockets (if necessary, the number of sockets can be increased easily - optional)
- Equipped with a polypropylene little sink (dim.: 265x90x100 mm) located on the back of the fume hood

- Self-supporting fume cupboard construction; structural elements made of aluminum profiles with a wall thickness of approx. 2 mm, powder coated with chemical resistant epoxy paint

3.12 Konstrukcija

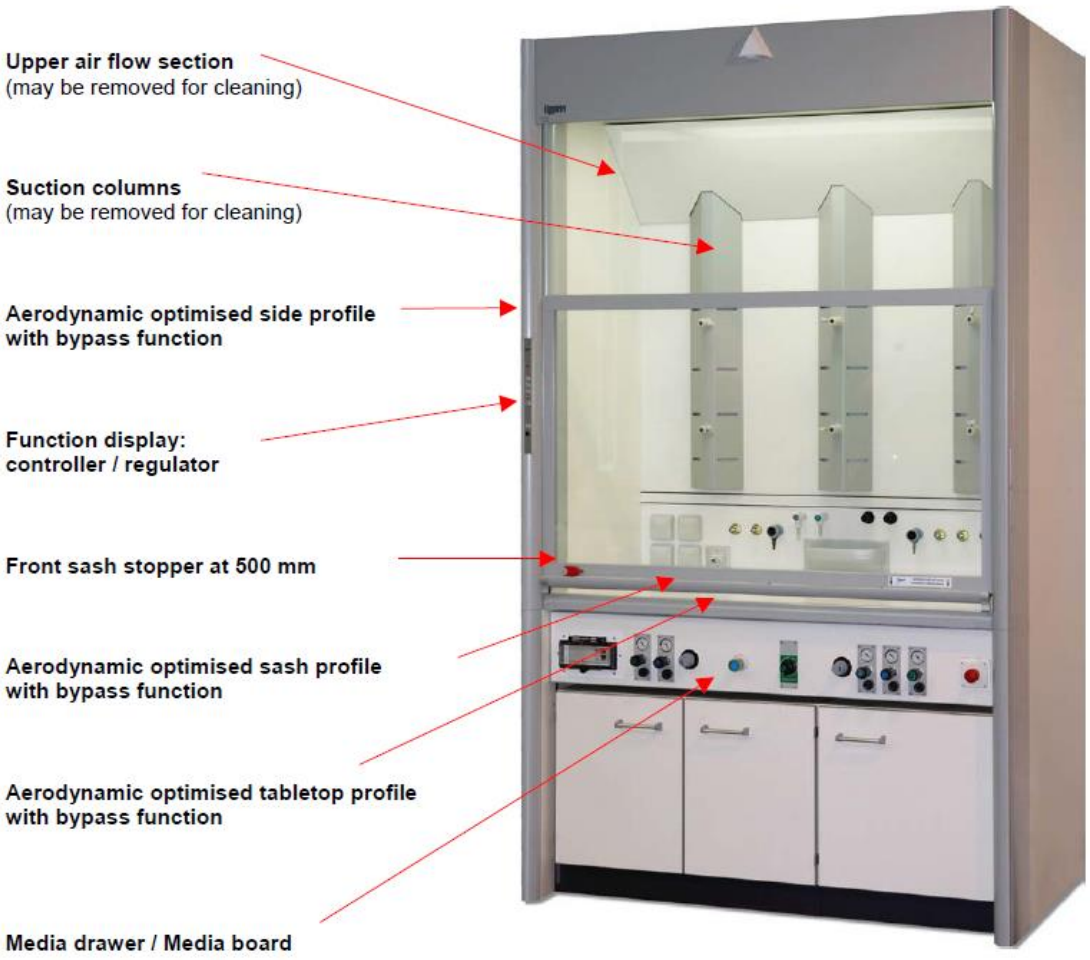
RENGGLI SP. Z O.O.
15-399 Białystok, ul. Handlowa 6A
tel. +48 85 710 18 77

- The fume hood consists of a working part (working chamber with a system of suction columns, ceramic top with raised rim, front frame and LED lighting) and space under a worktop in which cabinets can be mounted

renggli
Systemy Mebli Laboratoryjnych

RENGGLI SP. Z O.O.
15-399 Białystok, ul. Handlowa 6A
tel. +48 85 710 18 77

RENGGLI SP. Z O.O.
15-399 Białystok, ul. Handlowa 6A
tel. +48 85 710 18 77



- Standard cabinets made of double-sided laminated board (white color W980 from the EGGER palette, other colors to be agreed) with a thickened 18mm; all edges of cabinets finished with Polypropylene PP (1mm body, 2mm fronts), PP rim is glued with a specialist PUR (polyurethane) which is not water-dilutable, which eliminates the risk of peeling off and deformation of the rim under the influence of undesirable moisture in the laboratory, the doors in the cabinets are mounted on powder-coated hinges with a diameter of 35 mm and an opening angle of 270 degrees with the possibility of

RENGGLI SP. Z O.O.
15-399 Białystok, ul. Handlowa 6A
tel. +48 85 710 18 77

adjustment in three levels, which ensures maximum adjustment and comfort of work, edge handles in cabinets (the possibility of using other handles at the User's request); cabinets placed on a plinth of beech plywood in a dark graphite color

- It is possible to manufacture polypropylene cuvettes adapted to the size of cabinets or to make cabinets with litter boxes on wheels for easy storage of larger containers

RENGGLI SP. Z O.O.
15-399 Białystok, ul. Handlowa 6A
tel. +48 85 710 18 77

- Side profiles and worktop profile are closed profiles, designed in such a way that allow additional flow inside the profiles, supporting the inflow of air into the working chamber
- Working chamber made mainly from laminated boards on both sides; up to a height of about 30 cm, the back wall is made of phenolic resin for easier cleaning of elements exposed to dirt
- the air flow into the chamber takes place both through a gap above the working surface and through the Bypass slits, which ensures air movement on the entire surface of the worktop, at the same time eliminating dead zones in the working chamber, and prevents the backflow of air; in the upper part of the working chamber a nozzle made of non-combustible PPS, diameter 250mm, is installed to connect with ventilation ducts of the building
- Lighting of the working chamber: LED panel (IP67 tightness class) with a minimum power of 25 W, placed in the upper part of the working chamber (above the window); light from the lamp directed to the inside of the working chamber, uniformly illuminates the whole surface of the worktop 3.11 LED apšvietimas
- The window in a single aluminum frame, glazed with multi-pane glass (glass-foil-glass) with a thickness of 4 mm; all glass edges are chamfered, sliding windows are run on the counterweight principle using a steel cable system on guide rollers, which allows you to control the window position and block it in a fixed position; window guide system: guides, slides, structural elements, belts and gears, are hidden inside the fume cupboard side panels, and additionally made of chemically resistant materials, (elements made of acid-resistant steel and polymers) and self-lubricating (polymers), which ensures full protection against corrosion; access to the mechanisms guiding window frames is without the need to move the fume cupboard away from the wall or pull out of the line, which ensures easy service or maintenance of mechanical elements placed in the fume hood
- The worktop made of monolithic cast ceramic with integrated raised rim on all sides (solid sintered, without using any joints); shape of the worktop adapted to the section of

RENGGLI SP. Z O.O.
15-399 Białystok, ul. Handlowa 6A
tel. +48 85 710 18 77

the working chamber (maximum use of the surface); the thickness of the top is 28 mm on the whole surface of the flat part and 35 mm along with the raised rim; permissible worktop load: 200 kg; surface of the countertop and all available edges of the glazed top

- Ceramic worktop:
  - ✓ Mohs hardness scale: 6 according to EN 101
  - ✓ resistant to staining according to EN ISO 10545-14
  - ✓ chemically resistant to EN ISO 10545-13
  - ✓ chemically resistant to EN ISO 10545-14
  - ✓ tensile strength of ceramics and discontinuation according to standard 10545-4
  - ✓ water absorption according to standard 10545-3

Fume hood made in accordance with EN 14175