DATASHEET

SAFEMATE TOTAL

Class II MicroBiological Safety Cabinet Type B2,

S@femate TOTAL Cabinets have been designed according to the airflow specifications for NSF49 Class II Type B2 cabinets, also known as "total exhaust". 100% fresh air is taken in from the lab, either from the front aperture and from a main inlet. The air from the main inlet is then cleaned by the main HEPA H14 filter to provide an ISO5 working area and joins with the air from the front aperture on the bottom of the cabinet. All the air is then circulated behind the backwall of the unit and filtered via the exhaust HEPA H14 filter and reinjected into the environment.

This kind of units are designed to be hard ducted and provide the possibility to work safely with small amounts of chemicals without the risk of increased concentration due to the air recirculation.

MAIN SPECIFICATIONS

- Sloped front sash (5°)
- Sliding sash with electrical operation and auto recognition of the correct work position
- Swinging front window for optimal clearing access
- Front window presses on the gasket when in closed position to ensure no leakages.
- Maximum height of front aperture: mm 440.
- Front grid with "V" shape to avoid obstructing it with the arms. No need to use armrests.
- Filter replacement and electric/electronic components maintenance from front side.
- External surface in epoxy-painted steel.
- Working chamber and work surface fully realized in stainless steel AISI304 with SB finishing. Easy to clean as required by EN12469:2000.
- Work surface divided in sectors, available both solid or perforated.
- Front sash in stratified safety glass, 6mm.
- Air decontamination provided by HEPA H14 filters, with efficiency > 99.995% (test MPPS according to EN1822.1)
- DOP test port for easy check of HEPA filters integrity.
- Internal sockets with IP55 protection level.
- Constant monitoring of the following parameters:
    - Laminar flow speed;
    - Inflow speed;
    - Optical/acoustic alarm for insufficient inflow barrier;
    - Optical/acoustic alarm for insufficient laminar flow;
    - Operating hours visualization for: cabinet, HEPA filters, UV.
- Volt-free contact for remote blower control or connection to a remote alarm system.
- Exhaust connector: diameter 350mm.

BioAir S.p.A. - Tel.: +39 0382 6672.1 www.bioair.it - info@bioair.it
Numero REA MI – 2577880 Partita IVA e C. Fiscale: 11078210967 - Cap. Soc. Euro 1.000.000 i.v.
Sede Amministrativa: Via Figino, 20/22 – 20016 – Pero (MI) Italy
Sede legale: Via Spezia, 1 - 20142 – Milano - Italy
Sede Produttiva: Via Lombardia 12 – 27010 Siziano (PV) Italy

STANDARD UTILITIES

Utilities are located on the back wall of the working area. Connectors for the utilities are located on the top of the cabinet towards the back.

Electrical sockets. On the back wall
DOP sampling port. Below the work surface, left side.
UV lamp installed on the back wall.

OPTIONALS ACCESSORIES

Description	Part No.
Stand for S@femate TOTAL 1.2	AS1L410
Castor kit	AZ1L010
2 Drawers file cabinet	AC10000

OPTIONAL UTILITIES

Vacuum tap. On right side.
Gas tap with safety solenoid valve. On right side.
Additional sockets
RS232 data transmission kit (Software not included)

TECHNICAL SPECIFICATIONS

MODEL	S@FEMATE TOTAL 1.2
Cabinet Part No.	LDK4E0N
Perforated work surface	AZ9K040
Solid work surface	AZ9K041
External size(lxpxh) mm	1380x840x1450
Work area size (lxpxh) mm	1230x600x700
Height including stand (mm)	2175
Front Aperture (mm)	195
Weight (Kg)	240
HEPA filters efficiency	> 99,995% MPPS (test MPPS according to EN1822.1)
Exhaust air volume	≈1400 m³/h
Motorblower(s)	Centrifugal with speed autoregulation based on filter clogging status. IP55 protection level
Power supply	230V 50/60Hz
Power (W)	375
Internal Sockets	2
Fluorescent lamps	2x30W
Lighting	1200 lux

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