

## TECHNICAL SPECIFICATIONS - Fume Cupboards

### 1- FUME CUPBOARDS

#### STANDARD COMPONENTS IN ALL FUME CUPBOARDS

##### **EPOXY RESIN WORKTOP & CUP SINK**

Made of black epoxy resin dished top 15/25 mm thick. Top supplied with one epoxy resin cup sink size: 267x114 mm with polypropylene bottle trap.

##### **BACK BAFFLES**

Made of Trespa Athlon flat panel based on thermosetting resins, homogeneously reinforced with cellulose fibers and manufactured under high pressure and temperature. Trespa Athlon panels have an integrated, decorative structure based on modified melamine

Trespa Athlon thickness for back baffles: 6 mm

##### **AIR FOIL**

Aerodynamic shape airfoil made of stainless steel fitted on the front edge of the worktop.

##### **GLASS SASH**

Full-view 6 mm toughened glass sliding sash is supported by a counterbalance on nylon covered steel wires, with ball bearing pulleys. Sash is supplied with full width handle. Load capacity of each pulley is 40 kg.

##### **MECHANICAL FITTINGS**

Fittings are manufactured according to ISO 9001 standard/EN 29001/BS 5750 part 1. Made from best quality brass (DIN 17660). Fittings are surface-treated with highly chemical resistant powder lacquer. Fittings usually delivered in light gray color No. 2700

- Cold water fitting
- Gas fitting (available for all gases)
- Distilled water fitting
- Vacuum fitting

##### **LIGHT**

The light fitting is connected to a switch fitted on the front operating panel. An airtight toughened glass plate is fitted in the top of the fume chamber to separate the light fitting from the inner fume chamber.

##### **ELECTRICAL FITTINGS**

Fume Hood is supplied with 20AMP fan switch with light indicator, 10AMP light switch, 13 AMP double electrical socket. All fittings positioned on the service panel.

##### **BASE CABINET**

Made from 18mm plywood covered with 0.7mm white matt HPL on both sides with 0.5 mm white PVC edging strips. Doors covered with 0.9mm HPL on both sides with 3mm black PVC edging strips, each door supported by two 165° Snap-on hinges.

##### **FRAMEWORK**

Constructed from 30x30x1.5mm square steel section, epoxy powder coated. Framework supplied with adjustment feet  $\pm 15$  mm.

##### **EXHAUST FAN**

Centrifugal extractor fan with IP 55 protection. Fan house is adjustable, UV resistant and made of polypropylene. Wheel is made of polypropylene and fitted to a graphitized nylon hub. Each fan is supplied with motor base.

**AIRFLOW MONITOR (Optional)**

Safety device to measure face velocity of air entering the open sash area with audiovisual low air alarm. Airflow Monitor complies with British Standard and COSHH requirements. Panel includes analogue meter with continuous reading of face velocity, air sa

**DIGITAL AIRFLOW MONITOR (Optional)**

Airflow is a Safety device monitor to measure face velocity of air entering the open sash area with audiovisual low air alarm.

Airflow monitor comply with BS and COSHH requirements. Panel include digital display of face velocity in m/sec or fpm, LED indicates for safe and alarm conditions and configuration, Plug-in connections for power supply and airflow sensor, with 3 programm

Device will be positioned on the top of the Fume chamber.

**FUMETECH – 10**

**Size (overall)**

Width: 1200/1500/1800 mm

Depth: 900 mm

Height: 2400 mm

**CHAMBER**

Chamber consists of 18 mm plywood covered with 0.7 quartz finish HPL on both sides with 0.5 mm white PVC edging.

**FUMETECH – 20**

**Size (overall)**

Width: 1200/1500/1800

Depth: 770 mm

Height: 2400 mm

**CHAMBER**

Made of Trespa Athlon flat panel based on thermosetting resins, homogeneously reinforced with cellulose fibers and manufactured under high pressure and temperature. Trespa Athlon panels have an integrated, decorative structure based on modified melamine

Trespa Athlon thickness for chamber: 13mm

**TRANSITION HOOD**

Fume Hood chamber is provided with transition hood from rectangular to round. Connecting Fume Hood exhaust to duct system and fitted on top of the Fume Hood.

**FUMETECH – 30**

Double Skin Fume Cupboard

**Size (overall)**

Width: 1200/1500/1800 mm

Depth: 900 mm

Height: 2480 mm

#### **CHAMBER**

Aerodynamic design, double-wall fume chamber. Outer skin made of 1mm thick epoxy powder coated steel sheets. The internal lining and constructed from Trespa Athlon, white, Solid Grade Laminate panels in 6mm thickness for chamber sides and back baffles, a

#### **TRANSITION HOOD**

Fume Cupboard chamber provided with transition hood from rectangular to round. Connecting Fume Cupboard exhaust to duct system and fitted on top of the fume cupboard. Hood made of stainless steel.