

TPE designs and installs custom downdraft benches. Downdraft benches can be the perfect solution where evacuation of fumes is required but fume cupboard enclosure is unnecessary. Appropriate applications are for removal of **non-toxic** fumes, perhaps with objectionable odours – that is, where dangerous conditions do not exist.

TPE's work includes design, sizing, and installation of inlet pop-up grills, cut-offs/dampers, ductwork, controls, extraction fan, and discharge stack. Fixed Volume airflow is standard for bench extraction systems.

TPE's works flexibly to meet the customer's need:

- ▶ TPE can design and install a downdraft bench system that includes – besides the extraction equipment – the workbenches, bollards and shelving, sinks, tap ware, and under-bench furniture.
- ▶ Alternatively, TPE can accommodate its extraction equipment to bench, fixtures, and furniture installed by others.

Downdraft Bench Examples

RIGHT: Facing benches use adjustable, two-sided pop-up inlet grills and an exhaust manifold under the work surface. Custom-designed bollards provide internal space for routing service lines and external surfaces for tap ware and electrical outlets. Shelving sections above the bollards are recessed to prevent spillage dropping onto the work surface below.

UPPER-RIGHT: Close-up view of two-sided pop-up inlet grill. Each side can be lowered/raised in steps to moderate the airflow.

BOTTOM: Long downdraft bench with bollard and shelf, appropriately sized for single workstations against a wall.



Specifications

Electrical	230v AC, 50 Hertz
Benching	Powder-coated steel framework with chemical-resistant work surface
Shelving	5mm uPVC
Ducting	Conventional PVC components
Fan	Direct-drive motor with polypropylene, injection-moulded, Brinkmann® centrifugal fan