

Process Plant and Equipment Fume Extraction System



Stock No	BIO500
Manufacturer	Process Plant and Equipment
Year of Manufacture	2000
Other Info	Capacity 9.23 m3/sec (19,557 cfm)
Location	Stroud, Gloucestershire, UK
External Dimensions (WxDxH mm)	5m x 3.6m x 2.85m high support

Description

This Process Plant & Equipment Fume Control System is a complete industrial extraction and fume abatement package designed for plating and surface treatment lines. Comprising of a horizontal fume scrubber & extraction fan, the system provides efficient removal and treatment of process fumes before safe atmospheric discharge.

Fume control plant & equipment extracts fumes via lip hoods at tank flange level, into a plenum chamber and onwards through riser ducts into a header manifold running at high level at the rear of the plant.

Extraction System Includes:

- Horizontal fume scrubber
- Extraction fan

Ready For Immediate Shipping

The photos show the previous installation of this fume extraction system at the former owner's facility. The plant has since been purchased and is now being offered again by Riley's Surface World, having remained securely strapped and palletised following its previous sale.

As part of the original sale, the extraction system was professionally decommissioned by West Midlands plating specialists, Balco, ensuring it was safely removed and prepared for future installation.

Horizontal Fume Scrubber

- Fumes to be treated are extracted from the process tanks and drawn into the horizontal scrubber/unit passing consecutively through the double bank of wet sprays and onward to impingement blade mist eliminators.
- The scrubber is complete with sump tank, circulation pump and automatic level control.
- The treated saturated air stream flows through the bank of profiled impingement blade mist eliminators. In this section the entrained liquid droplets removed from the air stream agglomerate on the blade surfaces and gravity flow into the sump tank.
- On leaving the scrubber unit the treated fumes are ducted to the extraction fan for discharge to the atmosphere via the exhaust stack.

Materials of Construction:

- Casings, transition boxes, and recirculation tank in uPVC externally reinforced glass fibre/resin laminate using general-purpose resin and chopped strand matt glass fibre.
- Mist eliminators cassettes, valves, pipework, spray headers and nozzles in uPVC
- Frame welded constructions, in mild steel box sections finished painted.
- Mist eliminator blades in polypropylene.
- Gaskets in uPVC

Extraction Fan

- Forward curved 1200mm diameter fume exhaust fan, vee belt driven from inverter controlled 18.5 kW motor suitable for 415/3/50 supply complete with base frame, drain socket, anti-vibration mounts, flexible connections and scroll guard.
- Measured capacity 9.23 m³/sec (19,557 cfm)
- Fan casing fabricated in Polypropylene
- Impeller fabricated in Polypropylene.

Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.