NEOMETRIX DEFENCE NMX-FXS-88

Fume Extraction System

CAPABILITY SHEET · CATCH IT AT THE SOURCE · HOODS, DUCTING, A FILTER STAGE CHOSEN FOR THE FUME, A

THE ONE IDEA

PRINCIPLE	Catch it at the source.
WHY IT MATTERS	The air a hood draws in falls off quickly with distance from its face, so the hood goes to the fume, or the source is enclosed, and a bigger fan far away does not help.

THE SYSTEM

CAPTURE	Hoods, arms and enclosures at each source, with a flange and a shield against draughts, placed as close as the work allows.
DUCTING	Sealed ducting with balancing dampers, so that each hood draws its share, and with no low points where liquid can collect.
FILTER STAGE	A pre-filter and a fine filter for particles, activated carbon for vapours and odours, and a scrubber where the fume needs one.
FAN AND DISCHARGE	A fan and a drive that can be turned down, and a discharge stack placed away from the air intakes.
AIR AND CONTROLS	Make-up air, a flow switch, a pressure reading across each filter, and an interlock that stops the process when the extraction fails.

THE METHOD

ORDER	Survey, capture, convey, clean, discharge and prove. The survey and the proof are the two that a quick job skips.
LIMITS	Velocities, flows, distances and efficiencies come from the customer's work and fume, and are not printed here.

CONFIGURATIONS

SOURCE-CAPTURE UNITS	Arms and hoods on a small unit, for one workstation or a few.
DUCTED CENTRAL SYSTEM	Many hoods on one filter and fan, balanced and monitored, with make-up air.
SYSTEM WITH A SCRUBBER	For acid and reactive fume that a dry filter cannot hold, with the scrubber liquid circuit and drain.

STANDARDS & SCOPE

STANDARDS	Public reference: EN 14175 for laboratory fume cupboards, ISO 21904 for air filtration equipment in welding and allied processes.
SCOPE BOUNDARY	It is the fume extraction system: not a battery abuse test chamber with a gas scrubber, not a chemical cleaning bay and not an incinerator.
STATUS	Neometrix has quoted against successive fume extraction system requirements, and no delivered fume extraction system is claimed.

DEFENCE PROGRAMMES DESK

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