

Gas Fire Suppression System

CAPABILITY SHEET · THE ROOM HAS TO HOLD THE GAS · MEASURED, NOT ASSUMED · ENGINEERED TO ORDER

THE ONE IDEA

PRINCIPLE	The room has to hold the gas.
WHY IT MATTERS	A gas system fills a room to a design concentration and has to keep it there, so the leakage of the room is measured and the hold is designed apart from the discharge.

THE SYSTEM

CYLINDERS & MANIFOLD	Gas cylinders in a rack, a valve and a solenoid actuator on each, and a manifold with check valves that joins them.
PIPEWORK & NOZZLES	Discharge pipework supported against the thrust, and nozzles placed so that the gas mixes through the whole room.
RELIEF VENT	A pressure relief vent in the boundary of the room that opens at a set pressure, so the room holds the gas and survives the discharge.
INTERLOCKS	Ventilation dampers and doors that close as the release is signalled, with warning, delay, abort and manual release.

THE METHOD

ORDER	Specify, survey, size, build, test and prove. Surveying the room first, and testing its leakage again with the system in place, are what a quick order skips.
LIMITS	Concentrations, times and pressures come from the standard the customer names and from the room, and are not printed here.

CONFIGURATIONS

CENTRALISED CYLINDER BANK	One bank of cylinders that protects several rooms through selector valves and a pipe network.
SINGLE-ROOM MODULAR SYSTEM	Few cylinders beside one room, with a short pipe run and the nozzles inside.
LOCAL APPLICATION	A small system for one machine or one panel that discharges at the hazard itself.

STANDARDS & SCOPE

STANDARDS	Public references: NFPA 2001 for clean agent fire extinguishing systems and ISO 14520 for gaseous fire-extinguishing systems.
SCOPE BOUNDARY	It is the gas fire suppression system: not a hydrant and pump system, not a foam system and not a halon facility.
STATUS	Neometrix engineers gaseous fire suppression systems to order, and no delivered gaseous fire suppression system is claimed.

DEFENCE PROGRAMMES DESK

sales@neometrixgroup.com · +91 7777 876 876 · neometrixgroup.com
Neometrix Defence Limited · E-148, Sector 63, Noida, Uttar Pradesh, India