



AutoFireX
Automatic Fire Suppression systems

**PRE-ENGINEERED AUTOMATIC CO2 IHP
FIRE DETECTION & SUPPRESSION SYSTEM**

PROVEN TECHNOLOGY REDEFINED



SERVER RACKS



POWER GENERATION & DISTRIBUTION



CNC/EDM MACHINES




TELECOMMUNICATIONS



RENEWABLE ENERGY SYSTEMS



PROTECT YOUR WORLD

**AutoFireX® IHP INDIRECT HIGH PRESSURE CO2 AUTOMATIC
FIRE DETECTION AND SUPPRESSION SYSTEMS
UTILISING  SEAMLESS ALUMINIUM CYLINDERS**

TECHNICAL DATA AND SPECIFICATION SHEET

TDS DOC-AFX0048 July 2022 Rev01

www.autofirex.co.uk

AutoFireX Limited. Regd. Office 12, High Street, Stonehouse, England, Gloucestershire, GL10 2NA, United Kingdom
Company Registration No. 11553258; VAT Registration No. 305 7385 04

IHP - INDIRECT HIGH PRESSURE – Co2 CLEAN AGENT FIRE SUPPRESSION SYSTEM UNIT


PRODUCT OVERVIEW & PRINCIPLE OF OPERATION

AutoFireX® IHP- Indirect High-Pressure Co2 Systems are primarily a Pre-Engineered Automatic Fire detection and suppression System utilising High pressure agent Co2. These Units are designed, manufactured, and tested in ISO 9001:2015 certified facilities

The AutoFireX® Linear Pneumatic Fire Detection Tubing (FDT) is installed and connected to IHP Valve and routed throughout the protected hazard area/enclosure. Being heat sensitive, the primary function of Linear Pneumatic Fire Detection Tube (under pressure) is to detect heat/fire and activate the valve for discharge of the agent by rupturing at the hottest point along its installed length on flame impingement.

The Co2 clean agent under pressure, in the cylinder then flows out through the discharge port and is dispersed evenly via the network of discharge hose and nozzles, placed strategically in the protected enclosure and extinguishing the fire instantly.



Each IHP system consists of a High-Grade Brass Indirect valve assembly with 3 Ports (1 x Inlet connection-W28.8x1/14"- 1 1/8"-12 UNF-2A, M 25x 2; 1 x Outlet connection M10x0,75 & 1 x Filling connection- W 21,8 x 1/14") and siphon tube, a quarter turn Next Gen isolation valve with a G 1/8" threaded push-in/ slip on union is provided to connect the AutoFireX® Fire Detection Tubing. A Pressure gauge is also be provided to monitor the system pressure. The system is supplied complete with light weight UL approved  High-Pressure Seam less Aluminium Alloy Cylinders and Brackets and IHP valve Guard.

To assist in annunciation, an optional pressure switch can be installed at the end of the detection line using an End of Line Adaptor, also available with the system. The pressure switch provides a potential free contact, that can be interfaced, with existing FACP (Fire Alarm Control Panel) to indicate system discharge, shutdown ventilation, shut-off electrical power, as may be required. Alternatively, it can also be connected to a Audio Visual (A/V) alarm unit for annunciation.

Manual actuator provided can be fixed via End of Line to the Fire Detection tube at strategic location for manual actuation.

GENERAL SPECIFICATION

SYSTEM INFORMATION			PERFORMANCE INFORMATION
PRODUCT CODE	AGENT QTY.	OPERATING PRESSURE(@21°C)	MAX PROTECTED VOLUME @ 34% Design concentration
6000202	2 kg	57 Bar	Up to 1.98m ³
6000205	4.5 kg	57 Bar	Up to 3.96m ³
6000207	6.5 kg	57 Bar	Up to 6.54m ³
6000209	9.0 kg	57 Bar	Up to 8.49m ³

*Figures based on ideal conditions in fully enclosed space. Actual figures may vary according to application.

Maximum volume coverage is determined by agent concentration discharged within the enclosure where the fire hazard is located. The discharge time for IHP system utilising various agents differ from agent to agent and capacity of the cylinder.

For details write to: info@autofirex.co.uk

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AutoFireX® Automatic Co2 DHP Fire Suppression Systems Advantages

- IHP Co2 Fire Suppression Systems with major UL Recognized Components
- Reliable, 24 x 7 Automatic Fire Detection & Protection for machines, equipment, and data against Fires.
- Fast-Detection & Suppression of fire within seconds, reducing equipment damage and downtime
- Utilizing Multiple Detection points-**UL Recognized Component AutoFireX® Fire Detection Tube (FDT)** which is a Linear Pneumatic Heat detector that can detect fire throughout its installed length
- Intrinsically safe for electric charged areas. No External Power required to activate the system.
- No "False Alarm" or Discharges as systems only activate in the event of an actual fire/heat impingement.
- Post Discharge - Systems utilizing clean suppression agents require no post-discharge clean up.
- Easy to install in any new or existing Equipment's (CNC Machines, Electrical Panels, server rack etc.).
- Environmentally Friendly systems utilizing UL certified seamless cylinders and Clean Agents, not harmful to equipment or the environment.
- Interface Options -Systems comes with various options to initiate activities like Annunciation, shut on or shut of Power supply, ventilation, interface and monitoring through BMS, SCADA etc.
- Low Maintenance-AutoFireX systems do not interfere with installation or maintenance of equipment and can also be retrofitted to existing equipment's.
- Cost Effective Service-can be quickly and cost effectively serviced and recharged after a fire
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SUITABLE APPLICATIONS

APPLICATION SPECIFIC DESIGNED PRE -ENGINEERED AUTOMATIC FIRE SUPPRESSION SYSTEMS FOR CRITICAL ASSETS & EQUIPMENTS PROTECTION IN ALMOST ALL VERTICALS



ELECTRICAL CABINETS & SERVER RACKS

LT & HT Switchgear Panels, Capacitor Panels, Server racks in Data Centres, PLC & process automation control cabinets; critical data processing equipment; UPS cabinets; medical equipment; switchgears, HVAC Panels, Escalator Panels, Telecom towers

AIRPORTS
METRO RAIL
TELECOM
IT DATA
CENTERS



CNC /EDM MACHINES, FUME HOODS

Enclosed automated milling machines; EDM machines; robotic welding machines; plastic injection moulding machines, Fume Hoods, Walking fume hoods,

AUTOMOTIVE
OIL & GAS



MANUFACTURING & PROCESS APPLICATIONS

Dust & mist collectors, Paint booth, Process Control Cabinets, Chemical storage areas, DG Sets, Engine & Motor bays, Gas Turbines, Electrical Transformers, Dust Extractors, Filtration Plants.

PHARMACEUTICAL
INDUSTRIES
MFG. PLANTS



MINING MACHINES & MOBILITY VEHICLES

HEM Vehicles (Engines & Motor bays, Hydraulics, emergency brake, etc.) Control panels for Excavators, Drag Lines, Dump Trucks, Loaders, Dozers, Drill Rigs, surface miners, critical U/G Mining equipment's,

MINING
MARINE
PORTS
CONTAINER
DEPOT



POWER GENERATION & TRANSMISSION

Wind Turbines, Solar Energy Farms, Energy Storage Systems, Cable Trays & Cable Tunnels, UPS Battery Racks, Electric Vehicle Charging Units.

POWER
RENEWABLE
ENERGY

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