



bettati
ANTINCENDIO

INNOVATIVE FIRE SUPPRESSION SYSTEMS

WATER
FOAM
CO₂
GAS
KITCHEN
EXTINGUISHERS

OUR COMPANY

SYSTEMS - ACCESSORIES - SERVICES

FIRE EXTINGUISHING SYSTEMS

Inert gas systems VdS (IG100, IG01, IG55, IG541)

Chemical gas systems VdS (FK-5-1-12, HFC227ea)

"Object protection solutions": DOCTORfire and EXXFIRE

Water Mist systems

CO₂ systems

ACCESSORIES

Silenced nozzles - Overpressure dampers - Door Fan Integrity Test

SERVICES

Maintenance and commissioning - F-Gas kit - Cylinders refilling and test

Training courses for gas extinguishing and Water Mist systems

AREAS OF EXPERTISE

COMMERCIAL
BUILDING



PETROCHEMICAL
OFFSHORE



HEADQUARTER
CONTROL



TLC &
COMPUTER



HIGH VALUE
ASSETS



AIRPLANE
HANGAR



TUNNEL
RAIL-ROAD



INDUSTRY &
MANUFACTURING

CERTIFICATIONS

Member of CISQ Federation



CERTIFIED MANAGEMENT SYSTEM
ISO 9001



Società organismo di attestazione



ASSOCIAZIONE
MAIA
MANUTENTORI
ASSEMBLATORI
INSTALLATORI
ASSOCIATI
PER LA SICUREZZA



NY



HEADQUARTERS



TRAINING COURSES



**COMPONENTS
PRODUCTION**



**SYSTEMS
PRODUCTION**



**RESEARCH &
DEVELOPMENT**



**TECHNICAL
OFFICE**

INERT GASES

IG 100
01
55
541

CONSTANT FLOW SYSTEMS

Fully developed by BETTATI ANTINCENDIO.

Discharge pressure regulated at 70 bar and suitable for cylinders up to 180L.

Environmentally sustainable solution.

Reduced need for overpressure dampers.

VdS system approval and compliance to UNI 11512.



Hydraulic calculation software developed "in-house", available on a web platform and VdS approved.

MADE IN ITALY



CoC DUBAI

CHEMICAL GASES

FK-5-1-12 and HFC227ea SYSTEMS

Discharge in 10 seconds (fast extinguishing).

A) SYSTEMS UP TO 70 bar

Pressurization at 42, 50 and 70 bar. Cylinders up to 180L. Smaller pipe diameters and greater distance from cylinders to nozzles. Easy retrofitting of 42 bar HFC systems. VdS hydraulic calculation software, VdS system approval.

B) SYSTEMS UP TO 80 bar

Pressurization at 25, 42, 50, 70 and 80 bar for cylinders from 5L to 232L. "FireSoft" hydraulic calculating software in-house developed.

MADE IN ITALY.



A



B



DOCTOR fire

PRE-ENGINEERED SYSTEMS WITH HEAT DETECTION TUBE

DOCTORfire uses FK-5-1-12 or HFC227ea as extinguishing agents and includes a heat and flame sensitive tube as a detection device. The system is automatically activated by the detection tube and does not require any electric power supply. DOCTORfire can be configured with direct (1) or indirect (2) installation.

Available with 3L, 7L and 12L cylinders for the protection of different volumes.

DESIGNED AND MANUFACTURED IN ITALY

KEY BENEFITS

- Easy plug and play solution.
- No need for electric power supply.
- Fire detection integrated into the system.
- Object Protection: the extinguishing agent is released close to the fire source.
- Cost-effective solution.



FK-5-1-12

HFC 227ea



1

DIRECT SYSTEM



2

INDIRECT SYSTEM

EXXFIRE

Innovative compact system used for detecting and extinguishing fires by means of non-pressurized nitrogen generators. The system is mostly effective in medium volume enclosures such as electrical cabinets, servers, rack cabinets, containers, or similar applications. The detection system can be either aspirating smoke detection (ASD) or heat-sensitive cable type. System innovation is in the extinguishing system: nitrogen is not stored as a compressed gas in cylinders, but is generated, by a decomposition chemical reaction, from solid material in grains.

IG | 100

EXXFIRE

MAIN ADVANTAGES

- Built-in detection and extinguishing system.
- Quick and easy installation.
- Modular solution.
- No pressurized gas.
- Low maintenance.
- CNPP Certification n° 55.22.221

DIFFERENT MODEL AVAILABLE FOR DIFFERENT VOLUMES:

- **EXXFIRE 750:**
for the protection of a volume up to 1.2 m³
- **EXXFIRE 1500:**
for the protection of a volume up to 2.4 m³
- **EXXFIRE 2500:**
for the protection of a volume up to 3.6 m³

For larger volumes systems can be connected.

WATER MIST

WATER MIST SYSTEMS HIGH AND LOW PRESSURE

Complete range of solutions for the protection.

BUILDINGS: hotels, offices, museums, archives, small warehouses, parking garages, datacentres, residential areas, auditoriums, theatres and similar applications.

INDUSTRIAL ACTIVITIES: engine rooms, turbine rooms, Industrial fryers, local application, engine and vehicles test rooms, transformers and similar applications.

MARITIME AND OFFSHORE APPLICATIONS.

SPECIAL APPLICATIONS: tunnels, saunas and vehicle engines.

Available FM Approved components.

WATER
MIST



BETTATI ANTINCENDIO
DISTRIBUTOR
FOR ITALY
SINCE 2012



CO₂

CO₂ SYSTEMS

Effective solution for Industrial risk protection.

The system can be designed either as total flooding of local application. Cylinders capacity up to 100L.

Developed and manufactured by BETTATI ANTINCENDIO.

MADE IN ITALY

CO₂



Left:
installation of a CO₂ system.

Right:
typical CO₂ extinguishing system application.

ACCESSO

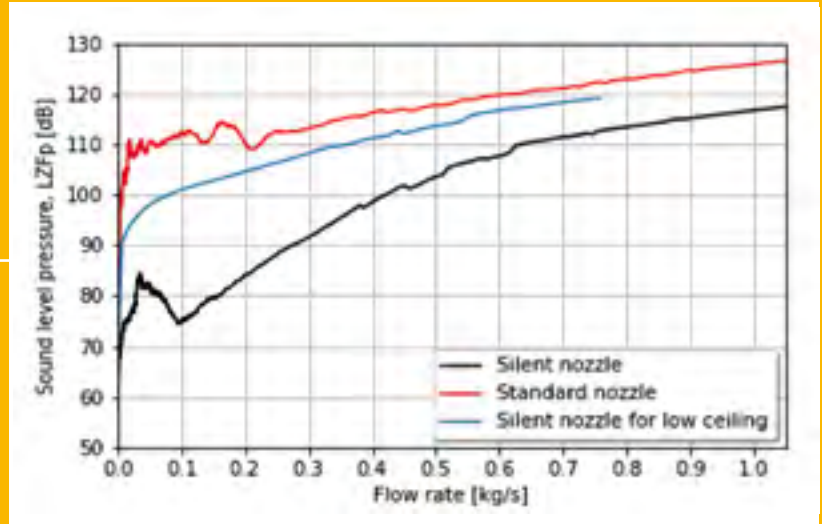
SILENCED NOZZLES FOR INERT GAS SYSTEMS AND FK-5-1-12

Designed to address blocking issue of hard drives in data centres.

Available 2 versions suitable for inert gas systems and FK-5-1-12 systems.

Nozzles acoustic emissions have been determined in collaboration with the University of Modena and Reggio Emilia (UNIMORE).

Developed and manufactured
by BETTATI ANTINCENDIO.
MADE IN ITALY



Sound pressure level plot.

Tests carried
out with



UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

IG

100
01
55
541

FK-5-1-12

SILENCED NOZZLE FOR INERT GASES

1

SILENCED NOZZLE FOR FK-5-1-12 AND IG (UNDERFLOOR/FALSE CEILING)

2



RIES

BETTATI ANTINCENDIO
DISTRIBUTOR
FOR ITALY



IG | 100
01
55
541

HFC | 125
227ea
23

FK-5-1-12

CO₂

OVERPRESSURE DAMPERS

Designed to address over or under pressurization of enclosures protected by gaseous extinguishing systems; they aim to avoid structural damage to elements such as walls, false ceilings, doors and windows.

Inert gases create only a positive type pressure whereas chemical gases and CO₂ are able to create a negative and positive pressure.



KEY BENEFITS

- Complies with EN ISO 21805.
- Certified performance in terms of free vent area and opening (85 Pa) and closing (50 Pa) pressures.
- Sizes from 15 cm to 100 cm.
- Bi-directional operation in a single damper (suitable for positive and negative pressure).
- Fire resistance certification (EI120/E240) available.

DOOR FAN INTEGRITY TEST

IG | 100
01
55
541

HFC | 125
227ea
23

FK-5-1-12

CO₂

BETTATI
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retrotec

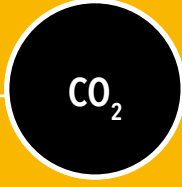
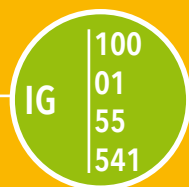
FAN	m ³ /h @ 50 Pa	RETROTEC fans are available in 3 models to cover a wide range of volumes.
MODEL 300	1.291	
MODEL 5000	9.684	
MODEL 6000	13.082	

Mandatory test for gas extinguishing system commissioning (EN 15004) and to be repeated during periodic maintenance according to local regulation (e.g. UNI 11280).

BETTATI ANTINCENDIO is the Italian distributor for Retrotec equipment (leading company for integrity tests) and offer additional services as periodic calibration of fans and manometers.



SERVICES



SYSTEMS MAINTENANCE AND COMMISSIONING

BETTATI ANTINCENDIO team can offer systems maintenance and commissioning according to most recognized international standards.

All technicians have necessary qualifications to work with fluorinated gas (F-GAS) according to EU Regulation 517/2014.



F-GAS KIT

Kit consisting of various adapters, connections and a calibrated pressure gauge to be used, in accordance with the F-GAS regulation, for the period pressure control on main valves of firefighting sector.





IG
100
01
55
541

HFC
125
227ea
23

FK-5-1-12

CO₂

CYLINDERS FILLING AND TEST



Our company can provide refilling services for all extinguishing agents (inert gases, chemical gases and CO₂).

Moreover, we can perform:

- periodic cylinders testing as required for transportable gas cylinders ("In-house inspection service" authorization from Bureau Veritas, notified body number 1370);



- necessary activities required by planned revision of gas extinguishing systems in accordance with local guideline (e.g. UNI 11280).

We also have a large warehouse of retested cylinders to ensure a fast and cost-effective service.

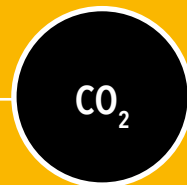
COURSES

GAS EXTINGUISHING SYSTEMS TRAINING COURSES

BETTATI ANTINCENDIO can provide training courses for all gas extinguishing systems to designer, installer and end user. Moreover courses can be used to gain Maintenance qualification according to Italian regulation DM 1/9/2021 "Decreto Controlli".

BETTATI ANTINCENDIO training centre is equipped with all the necessary facilities in order to carry out a correct and complete training. Some of the available facilities are:

- functional installation of extinguishing systems that can be used to perform maintenance activities and to understand system functioning. Installation includes components as: container valves, selector valves, control panels and detection systems;
- equipment for maintenance according with UNI 11280;
- "Windowed room" used for experience a real system discharge.



WATER MIST TRAINING COURSES

BETTATI ANTINCENDIO can provide training courses for Water Mist systems to designer, installer and end user. Moreover courses can be used to gain maintenance qualification according to Italian regulation DM 1/9/2021 "Decreto Controlli. BETTATI ANTINCENDIO training centre is equipped with all the necessary facilities in order to carry out a correct and complete training.

WATER MIST

Some of the available facilities:

- functional installation of Water Mist systems that can be used to perform maintenance activities and to understand system functioning. Installation includes components as: pressurization units with electric diesel and pneumatic pump sets, control valves, alarm valves;
- nozzles installation used for experience a real system discharge.



bettati

ANTINCENDIO

Via Disraeli,8 • REGGIO EMILIA

42124 (RE) • ITALY

TEL +39 0522 369711

www.bettatiantincendio.it

info@bettatiantincendio.it