



Fire is an uncontrolled oxidation reaction between flammable materials; it propagates in space and time without limitations, producing heat, smoke, gas and light.

Fire has always been the greatest risk factor for human activities; therefore, methods to prevent it and instruments to fight it have been implemented over time. The risk of fire has grown exponentially due to the increasing concentration of people in closed and confined spaces (typical of current urban settlements) and potentially dangerous activities. This is why protection and prevention are now considered a form of primary safety to prevent injuries to persons and damage to infrastructure.



WHAT ARE SMOKE AND FIRE CURTAINS

FANANI FIRE Smoke and Fire Curtains, the first in the segment to be made in Italy, are a valid fire-propagation control solution. They have been certified by an EN ISO 17025 accredited laboratory and are manufactured in the FANFANI FIRE plant in Borgo Panigale (Bologna).

These devices meet the need to partition, isolate, and make safe those areas, which do not fall within the standard measurements required to install a safety system, due to their dimensions or location.

HOW DO THEY WORK

Until required, mobile curtains are recessed in the ceiling (headbox), thanks to the electronic control of a supplied control unit, thereby keeping the area they are installed in clear.

WHAT IS GRAVITY FAIL-SAFE

All our mobile devices are provided with the **GRAVITY FAIL-SAFE** technology, which guarantees safe positioning (positive safety) even during black-out, or in the presence of damage or malfunction of the control unit.





The **FANANI FIRE** Fire Curtain is a new, completely safe, and non-invasive passive protection system. The automatic closing device is active only in the presence of fire and/or during a prolonged black-out.

It is particularly suitable for partitioning large spaces and for prestigious areas, where the aesthetic impact needs to be limited. Moreover, it allows people to circulate smoothly and goods to be handled more easily in the areas where it is applied, forming a separation only when required.

Tested in compliance with **EN 1363-1** (Fire resistance tests) and **EN 1634-1** (Fire resistance tests for doors, shutters and openable windows) standards, it has obtained, from an accredited laboratory, the classification according to the parameters established in **EN 13501-2** (Fire Classification Of Construction Products And Building Elements – Part 2: Classification using data from fire resistance tests, excluding ventilation systems).

Therefore, this system is effective to:

- Fight the quick propagation of fire and smoke through the buildings
- · Promote safe evacuation
- · Support Emergency Services
- Guarantee minimum visual impact and optimise spaces

FANANI FIRE Fire Curtains cannot be installed in escape routes. They can be located both inside and outside the building, on walls with suitable fire resistance properties.

The structure can be:

- · Installed inside the wall hole
- · Wall-mounted, i.e. visible and outside the wall hole
- · Recessed, i.e. retractable



TESTS RAN IN COMPLIANCE WITH THE FOLLOWING STANDARDS:

UNI EN 1363-1

Fire resistance tests.

UNI EN 1634-1

Fire resistance tests for doors, shutters and openable windows.

UNI EN 13501-2

Classification using data from fire resistance tests, excluding ventilation systems.

FIRE RESISTANCE CLASSIFICATION:

E120 W20 - E120 W60

Integrity. The devices prevent the passage of flames and smoke in case of fire, maintaining its structural integrity and protecting the rooms not involved in the event.

W A construction element capable of withstanding the action of the fire on the exposed side, so as to reduce heat transmission through radiation, thus avoiding it to reach materials adjacent to the non-exposed side.

COMPOSITION:

Fabric Glass fibre and steel wires with

silicone coating.

Structural Galvanised steel - RAL Painted work

(Optional).

Motor 24 VDC tubular, housed inside

the winding roller.

Control It manages all the functions

unit of the curtain.

Gravity It guarantees correct operation Fail-Safe of the curtain even when electric

events occur. In fact, it allows the curtain to be placed in room protection position even in the presence of alarms or faults.

DIMENSION

WIDTH	HEIGHT	HEADBOX	MOTORS
< 5 m	< 3 m	15/15	1
< 7 m	Max 8 m	15/20	1
> 7 m	Max 8 m	20/35	no.







Industrial plant Logistics centers Shopping centers Offices Stores Hotels Hospitals Schools University Museum Libraries Airports

Station
Garage
Gyms
Cinema
Discotheques







The Fanani Fire Smoke Curtain is CE certified in compliance with EN 12101-1 and it is frequently applied inside extraction systems to control, convey, and discharge smoke and heat. It is an integral part of the smoke and heat exhaust ventilation systems (SHEVS), both for natural (EN 12101-2) and forced (EN 12101-3) extraction, providing essential channelling and containment.

In accordance to the UNI EN 9494-1:2012 standard regarding sizing criteria, the smoke-free height must be evaluated according to the specific characteristics of the activity.

Therefore, this system is effective to:

- · Fight the quick propagation of the smoke
- \cdot Promote smoke extraction
- · Support Emergency Services
- Guarantee minimum visual impact (mobile version)

The use of Smoke Curtains allows the construction of ceiling compartments. In its mobile configuration, the smoke curtain is a retractable winding device, which allows the areas where it is installed to be kept clear. It comes down only when an alarm is triggered or in the presence of a prolonged black-out. In its fixed configuration, the smoke curtain remains always unfolded in safety position.

REMEMBER THE FOLLOWING:

90% of fire victims are due to smoke.

70% of material damage is due



TESTED AND CLASSIFIED IN COMPLIANCE WITH THE FOLLOWING STANDARDS:

EN 12101-1:2005

"Smoke and heat control systems. Part 1: Specification for smoke barriers".

EN 12101-1/A1:2006

"Smoke and heat control systems. Part 1: Specification for smoke barriers".

D134 certification

VERSIONS

SSB Static barrier

ASB1 Mobile barrier with

or without guides

COMPOSIZIONE

Fabric Glass fibre with white

silicone coating.

Structural

work

Galvanised steel, RAL painted (optional) headbox, guides

and terminal.

Motor 24 VDC tubular, housed inside the

winding roller.

Control

unit

It manages all the functions

of the curtain.

Gravity Fail-Safe It guarantees correct operation of the curtain even when electric

events occur. In fact, it allows the curtain to be placed in room protection position even in the presence of alarms or faults.

DIMENSIONS

WIDTH	HEIGHT	HEADBOX	MOTORS
< 7 m	< 3 m	15/15	1
< 7 m	Max 10,250 m	15/20	1
> 7 m	Max 10,250 m	20/35	no.







MOBILE SYSTEM WITH GUIDES





MOBILE SYSTEM WITHOUT GUIDES



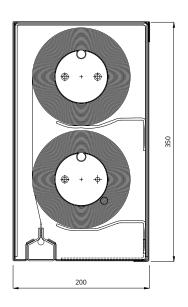
Station Hospitals Industrial plant Logistics centers Schools Garage Shopping centers University Gyms Offices Museum Cinema Libraries Discotheques Stores Hotels Airports

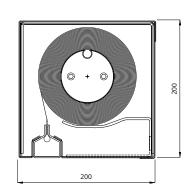
FIXED SYSTEM

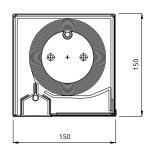








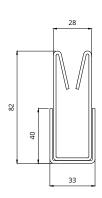




Caissons collection



Bar terminal



Side guide



Bracket for wall mounting

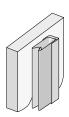


Fixing support in light

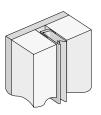
METHOD OF FIXING







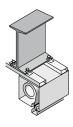
Guide wall

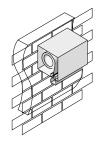


Recessed guide



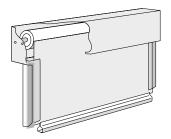
Caissons collection



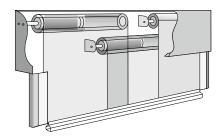




Type of installation



Curtain single roller



Curtain roller multiple



CONTROL UNIT

Fire curtain and mobile smoke barrier tubular handling operator control system.



INTUITIVE AND ASSISTED PARAMETER PROGRAMMING

The flexibility of the CU-350 system allows the programming of the control and coordination parameters of the smoke and heat tubular operators:

- · from the operator panel
- · from the specific control panel and RS-232 interface
- from remote supervisor via multipoint serial communication

CU-350 CAN BE MANAGED REMOTELY:

- · from the control panel, PLC on the RS-323 or RS-485 physical layer with Modbus RTU communication protocol.
- via Wi-Fi or Ethernet through interface adapter and RTU Modbus protocol on TCP-IP.

CHARACTERISTICS

Dimensions

CU 350-1 DCM 1 Motore 380 x 280 x 180 mm CU 350-2 DCM 2 Motori 380 x 280 x 180 mm CU 350-3 DCM 3 Motori 500 x 400 x 200 mm CU 350-4 DCM 4 Motori 500 x 400 x 200 mm

Protection rating IP55

Power supply 100-240 VAC 50-60 Hz

Output 24 VDC
Battery 2 x NP 12V
Serial interface RS 232

OPTIONS

Insulated serial module RS 485 Serial module for descent

coordination DCMc

SIMPLE OPERATION

Normally, the smoke barriers are in a high position (UP) in the absence of alarms or manual controls.

CU-350 automatically activates the barrier-controlled descent (DOWN) in the presence of an alarm coming from even one of the three inputs.

The smoke/fire alarm signal can be given if the following conditions are met:

- 1 voltage free contact (No/Nc) coming from the fire alarm control unit
- 2 one or more smoke sensors suitably positioned in the areas to be protected
- 3 from 24 VDC signal coming from another source (PLC, fire control unit, etc.)

In the presence of more batteries physically linked, each control module will be programmed to work in a coordinated way, allowing the activation of the tubular operators on one single alarm or manual control.

SAFETY DEVICES

The barrier motion is indicated by the closure of the relay contact, which drives loads at 5A 230 Vac. The barrier handling safety can be programmed:

- A through the opening of the contact on the "emerg" input to disable the movement or with anti-panic function.
- B obstacle: if the barrier meets an obstacle while moving, the controller activates the unlocking procedure automatically. If the obstacle persists, the barrier stops permanently indicating the fault.
- C blockage due to an obstacle on "n" barriers physically linked: same operation described in section B) on all the linked barriers, i.e. defined with coordinated operation.
- D in case of flat battery with no network or in the presence of control module fault, the barriers connected to the controller will descend by gravity (fail safe).





Abafoods RO Aeroporto di Bari ВА Aeroporto di Cagliari CA Aeroporto Civile Internazionale Capodichino NA Bambin Gesù Poliambulatorio RMBenelli Stabilimento di produzione PU Birra Castello S.r.l. Stabilimento di produzione BL PG Brunello Cucinelli S.p.a. Magazzino Camera dei Deputati Montecitorio RM Confindustria RMCentro Commerciale Fiera del Sud SR Concessionario BMW NA TO **Enel Reparto Produttivo** Gai S.p.a. Magazzino Industriale CN Gruppo COIN TO Hotel Ergife RM **IperDue** CH Istituto Tecnico Industriale VC Ikea Ы Ikea Centro Commerciale Villesse GO Museo Armani ΜI NH Hotel MI Ospedale Monselice RA Palestra Happy Fit (Centro commerciale) PD Showroom Prada MΙ





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