BACH

BACHFIRE UL

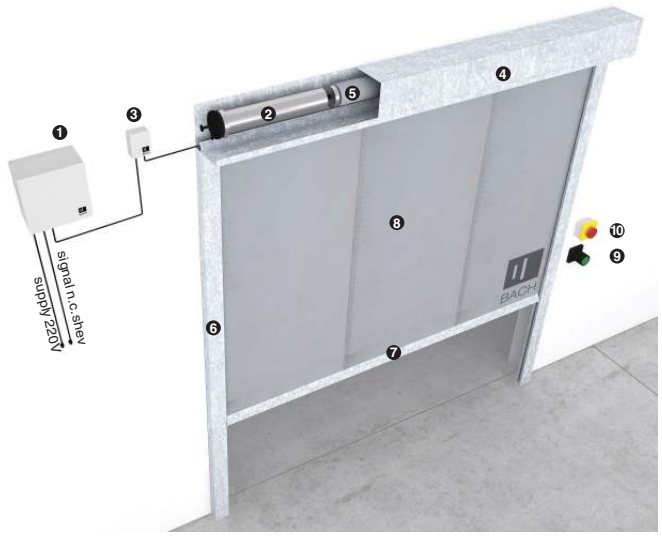
fire curtain system

Product features

BACH FIRE UL is an Automatic Fire Curtain that in the case of fire, limits and controls the fire, with classification UL 10D 180 minutes.
The curtain is composed by: fiberglass fabric with polyurethane coating on both sides seamed with reinforced steel wire and fixed to a steel roller of 78mm of diameter; galvanized steel elements as head-box, side guides and bottom bar.
All the system is driven by a 24Vdc tubular motor and controlled by an electronic board, BACH's CRM (Control and Regulation for Motor) with special gravity fail safe system.
The control panel for automatic curtains (CBM), with nominal input voltage of 115Vac or 220Vac and output voltage of 24Vdc. Uninterruptible Power Supply (UPS System) with autonomy up to 6 hours exists in all control panels.
Tested and approved according to the European Standards UNE EN 1634-1 and UNE EN 1363-1 and UL - USA standards for fire protection.

Description of operation

The system can be activated by a SHEV, fire alarm contact, internal fire and smoke detection devices, or manual emergency buttons. In the event of a fire, the BACH's Control Panel (CBM), receives the signal alarm, and the automatic curtain deploys automatically, with controlled and safe constant speed of descent even following total power loss on all curtains. If there is a false alarm the curtains return to stand-by position automatically after reset of alarm from main Fire Management Systems.
In case of main power loss, the curtain will remain fully retracted up to 6 hours thanks to BACH's battery back-up system.



❶ **Control panel CBM**

❷ **BACH Tubular Motor 24Vdc**

❸ **CRM Electronic control board**

❹ **Galvanized Steel Head-box**

❺ **Galvanized Steel Roller**

❻ **Galvanized Steel Side Guides**

❼ **Galvanized Steel bottom bar**

❽ **Fire resistant fabric**

❾ **Escape button**

❿ **Emergency button**

Definition/Classification

UL **Fire Tests of Fire Protective Curtain Assemblies**

Test and standarts

.Technical assessment of suitability
.Registration in CTE recognized certificationstest and resistance classification E120 according to norms:
.UNE EN 1634 fire resistance tests of doors and void closure elements
.UNE EN 13501 classification of non-bearing elements
.UL 10D USA standarts

Applications

Usualy installed in logistics centers, industries, nuclear power plants, agri-food indutries, shops, theaters, sports centers,....

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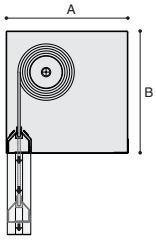
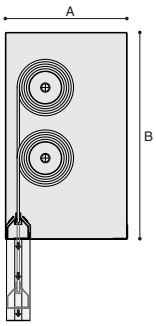
Technical details

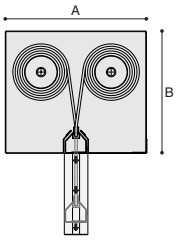
Headbox



Single roller
A:180 to 260 mm
B:180 to 260 mm

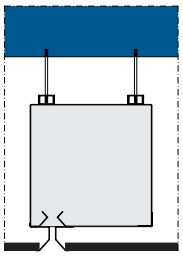


Multi roller vertical
A:190 to 260 mm
B:300 to 440 mm

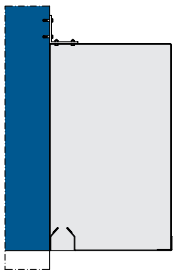


Multi roller/horizontal
A:250 to 400 mm
B:170 to 250 mm

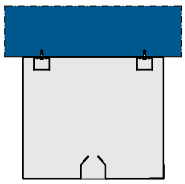
Headbox fixing



Hanging/false ceiling

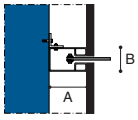


Wall



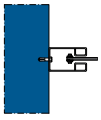
Top ceiling

Side guides fixing

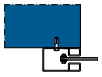


Hidden

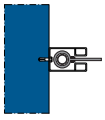
A: 80 mm to 120 mm
B: 50 mm to 76 mm



Side wall

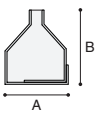


Front



Tube side guides

Bottom bar



Galvanized steel
A: 47 mm
B: 55 mm

Fabric
The fiberglass fabric resists up to 1100ºC. The polyurethane coating on both sides guarantees mechanical stability when handling the fabric not only in the sewing process but also during the installation. All seams are done with reinforced stainless steel wires with a coating of Kevlar

Headbox
Galvanized Steel head-box 1,2mm thickness with different possibilities to adapt to different architectural spaces, and maintenance requirements. Dimensions of the head-box varies depending on width and height of the curtain

Side guides
Galvanized Steel from 1,5 to 3mm thickness and different dimensions depending on width and height of the curtain.

Roller
Galvanized Steel of 1,5mm thickness and 78mm diameter. Special slide system for fixing the fabric

Bottom bar
Galvanized Steel of 1,5mm thickness and. Two-parts system easy to mount

Electric Motor
BACH tubular motor 24Vdcc
Maximum power 24 W/18,5Nm
Consuption 3 A
Average linear speed: 0.11 m/s

CRM Motor Regulation Box
Polyester box IP56 with an electronic board inside to control the movement of the motor. Dimensions: 120mm width x 160 height mm x 75mm deep

CBM Control Panel
Receives the signal alarm from Fire Management System and controls the movement of curtains
Dimensions: from 300x300x210mm to 400x400x250mm
Input: 115 or 220 Vac 50Hz Output: 24 Vcc
Battery: 2 x 12Vcc 7,5 Ah rechargeable. (up to 6 hours autonomy)
Visual and acoustic alert system
Maximum capacity: up to 12 motors

Optional Extras
RAL coating – head-box, side guides, bottom bar and false ceiling extra accessories
Stainless Steel Elements – Head-box, Side guides, bottom bar, screws, rivets
Head-box – Customized set-up for specific architectural or special operational requirements
Side guides – Customized set-up for specific architectural or special operational requirements
Bottom bar – Aluminum profile painted RAL 9003 (white) for using with false ceiling accessories
False Ceiling Accessories – Aluminum profiles painted RAL9003 to hide head-box over false ceiling
Electric Motor – Special 24Vdc motors up to 80Nm without CRM; Special 230Vac motors up to 120Nm without CRM
CRM – Customized board for high speed deployment.
CBM Control Panel – Special designs up to 48 motors in one control panel, additional information output, micro switches, communication with other devices, special battery backup, possibility of delaying curtain deployment)
Escape Button – Pushing this button the curtain goes up and the user can escape through the opening, the curtain deploys 30s later automatically
Emergency Button – Pushing this button the curtain deploys immediately
Other requirements and customized solutions on demand

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