



MECHANISM CONTROL

Mechanism control





XPJ027

Single-zone, opening-only CO₂ pneumatic “profile” smoke evacuation control



SINGLE ZONE, opening-only CO₂ pneumatic “profile” smoke evacuation controls (M.C.D.*) are designed to emit a safety control order to one or more natural smoke and heat exhaust ventilator systems (SHEVS) by manual operation (generally opening).

Strengths

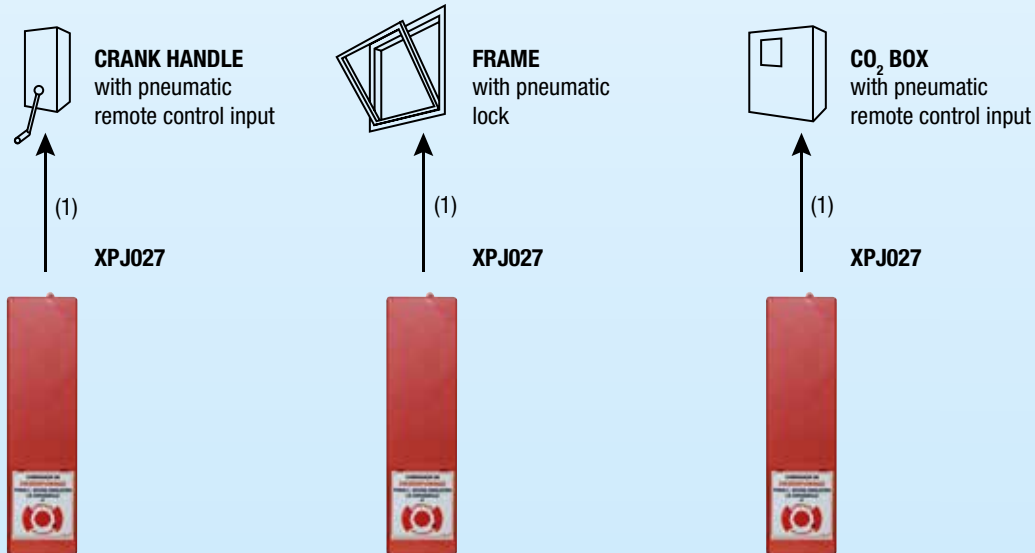
- Ideal for **stairwells** and **restricted spaces**
- Made of **synthetic materials**
- Indoor or outdoor installation
- Installation in “**harsh**” environments (food industry, swimming pool, etc.)
- **Safety tag**
- **Head-down cartridge:** injection of the gas in liquid phase (**maximum yield from the cartridge**)
- **No glass to break** or element to be reset.
- Triggering by simply pressing a button

Technical data

Reference	Dimensions L x H x D (mm)	CO ₂ cartridge for opening	Technical data sheet
XPJ027	63 x 237 x 59	30 g	S17/NF

* M.C.D.: Manual Control Device

Some applications



(1) 1/4 protected copper connection according to NFS 61.932



XPJ100X
to **XPJ300X**

Single-zone, opening-only CO₂ pneumatic “steel profile” smoke evacuation control



SINGLE ZONE, opening-only CO₂ pneumatic “steel profile” smoke evacuation controls (MCD*) are designed to emit a safety control order to one or more natural smoke and heat exhaust ventilator systems (SHEVS) by manual operation (generally opening).

Strengths

- “Clippable” tube cover delivered with each box
- Ideal for **stairwells and confined spaces**
- Easy **push-button** triggering of the strikers
- **Optimisation** of CO₂ cartridge capacity in relation to the size of the box
- **One-piece** box fitted in a single step
- Striker pin rearming device **built into** the mechanism
- Electric or pneumatic remote control modules
- **Quick and easy** installation of the remote control modules

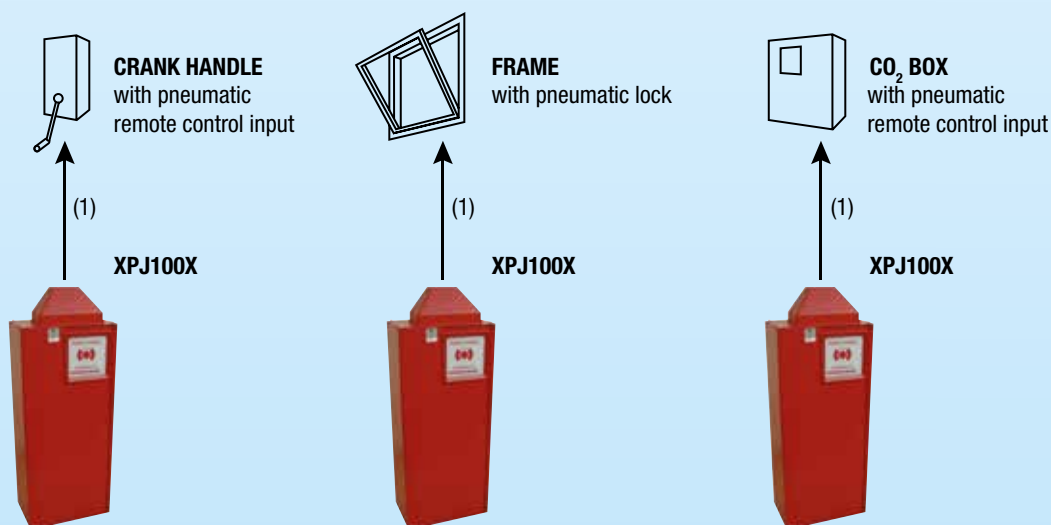
Technical data

Reference	Dimensions L x H x D (mm)	CO ₂ cartridge for opening	Technical data sheet
XPJ100X	175 x 297 x 105	100 g max.	S27/NF
XPJ200X	175 x 397 x 105	150 g max.	
XPJ300X	175 x 602 x 105	1000 g max.	

* MCD: Manual Control Device - ACD: Actuated Control Device - CMCD: Centralised Manual Control Device



Some applications



1) 4/6 protected copper connection according to NFS 61.932



XPJ100C
to **XPJ100H**

Dual-zone, opening-only CO₂ pneumatic smoke evacuation control



DUAL-ZONE, opening-only CO₂ pneumatic smoke evacuation controls (**MCD***, **ACD*** or **CMCD***) are designed to emit an opening order to natural smoke and heat exhaust ventilator systems (**SHEVS**) by means of **single-use A.P.S.** (CO₂ cartridges). They are used to simultaneously open two smoke evacuation zones using a single push-button control. The standard ranges are fitted with a deformable diaphragm and are accessible at level 0 (§4.1 of NF S 61-931). Standard boxes can be adapted by request with, for example, vandal-proof doors, access at level 1 (§4.2 of NF S 61-931) or cabinets (**C.M.C.D.***) with a number of strikers to be determined.

Strengths

- “Clippable” tube cover delivered with each box
- Easy **push-button** triggering of the strikers
- Attachment bracket that can be adapted to the substrate
- Purge switch with **automatic reset**
- **Optimisation** of CO₂ cartridge capacity in relation to the size of the box
- **One-piece** box fitted in a single step
- Striker pin rearming device **built into** the mechanism
- **Just one** remote control module to open both zones
- Electric or pneumatic remote control modules
- **Quick** and **easy** installation of the remote control modules
- **Just one** button to open both zones

Technical data

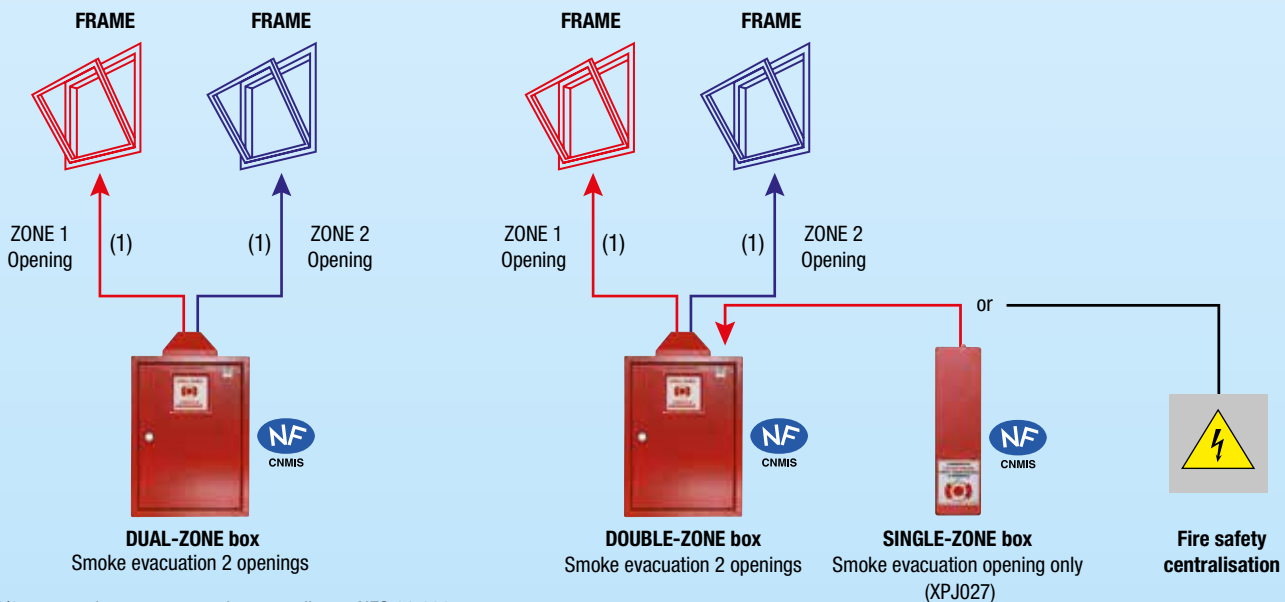
Reference	Dimensions L x H x D (mm)	CO ₂ cartridge for opening	Technical data sheet
XPJ100C	255 x 345 x 105	100 g max.	S21/NF
XPJ100D	255 x 440 x 105	150 g max.	
XPJ100E	335 x 520 x 105	500 g max.	
XPJ100F	560 x 520 x 105	500 g max.	
XPJ100G	335 x 700 x 105	720 g max.	
XPJ100H	560 x 700 x 105	720 g max.	

* MCD: Manual Control Device - ACD: Actuated Control Device - CMCD: Centralised Manual Control Device

Some applications

Reminder: a single-use cartridge (safety air supply) cannot supply all the skylights or smoke evacuation openings in the same sector for surface areas larger than 500 m² to be cleared of smoke. The system must be separated into two parts: DUAL-ZONE

The **DUAL ZONE** can be remotely controlled



(1) 4/6 protected copper connection according to NFS 61.932



XPJ110B
to **XPJ610B**

Single-zone, CO₂ pneumatic smoke evacuation control



SINGLE-ZONE CO₂ pneumatic smoke evacuation controls (**MCD***, **ACD*** or **CMCD***) are designed to emit an opening or closing order to natural smoke and heat exhaust ventilator systems (**SHEVS**) by means of **single-use A.P.S.** (CO₂ cartridges). They are used to open smoke evacuation devices using a push-button control. The devices are also closed using a single push-button. The standard ranges are fitted with a deformable diaphragm and are accessible at level 0 (§4.1 of NF S 61-931). Standard boxes can be adapted by request with, for example, vandal-proof doors, access at level 1 (§4.2 of NF S 61-931) or cabinets (**C.M.C.D.***) with a number of strikers to be determined.

Strengths

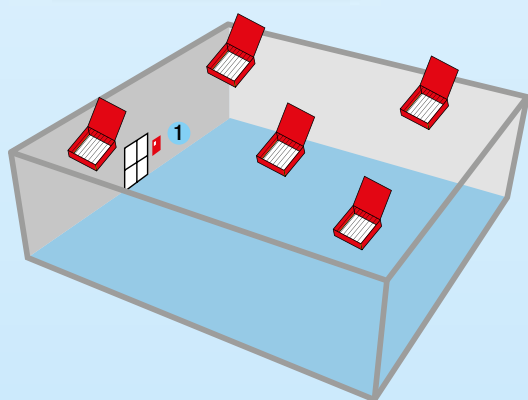
- “Clippable” tube cover delivered with each box
- Easy **push-button** triggering of the strikers
- Attachment bracket that can be adapted to the substrate
- Purge switch with **automatic reset**
- **Optimisation** of CO₂ cartridge capacity in relation to the size of the box
- **One-piece** box fitted in a single step
- Striker pin rearming device **built into** the mechanism
- Electric or pneumatic remote control modules
- **Quick and easy** installation of the remote control modules

Technical data

Reference	Dimensions L x H x D (mm)	CO ₂ cartridge for opening	CO ₂ cartridge for closing	Technical data sheet
XPJ110B	255 x 345 x 105	100 g max.	100 g max.	S25/NF
XPJ210B	255 x 440 x 105	150 g max.	150 g max.	
XPJ310B	335 x 520 x 105	500 g max.	500 g max.	
XPJ410B	560 x 520 x 105	500 g max.	500 g max.	
XPJ510B	335 x 700 x 105	720 g max.	720 g max.	
XPJ610B	560 x 700 x 105	720 g max.	720 g max.	

* MCD: Manual Control Device - ACD: Actuated Control Device - CMCD: Centralised Manual Control Device

Some applications

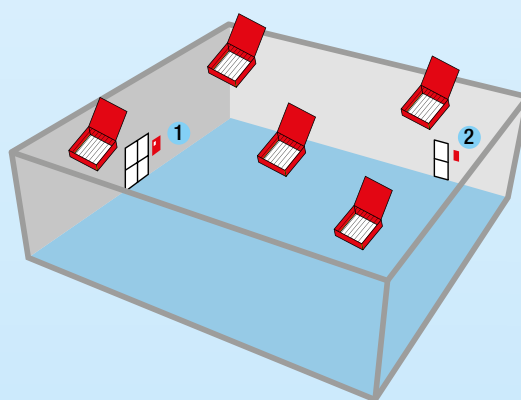


Opening (1) Closing (1)



SINGLE-ZONE box (e.g. XPJ310B)
1 opening + 1 closing

(1) 4/6 protected copper connection according to NFS 61.932



Opening (1) Closing (1)

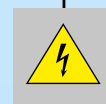
For this type of configuration, insert the pneumatic or electromagnetic module into the O/C cabinet triggering device



SINGLE-ZONE box (e.g. XPJ310B)
1 opening + 1 closing



SINGLE-ZONE box
Opening only (XPJ027)



Fire safety centralisation



XPJ320B

to

XPJ620B

CONFORT

Single-zone Confort CO₂ pneumatic smoke evacuation control—priority given to opening



DUAL-FUNCTION SINGLE-ZONE CO₂ pneumatic smoke evacuation controls (DCM*, DAC* or DCMR*) are designed to emit an opening order to natural smoke and heat exhaust ventilator systems (SHEVS) by means of single-use **A.P.S.** (CO₂ cartridges).

They are used to open smoke evacuation devices using a push-button control.

The CONFORT model has an opening-closing **ventilation** control. The smoke evacuation function has priority over the ventilation function at all times. The standard ranges are fitted with a deformable diaphragm and are accessible at level 0 (§4.1 of NF S 61-931). Standard boxes can be adapted by request with, for example, vandal-proof doors, access at level 1 (§4.2 of NF S 61-931) or cabinets (**C.M.C.D.***) with a number of strikers to be determined.

Strengths

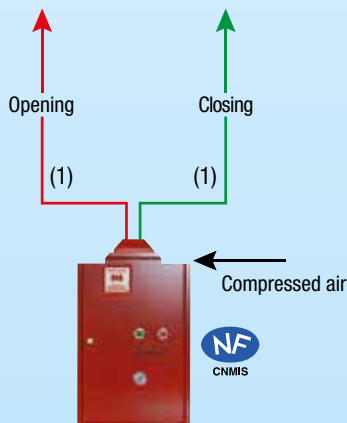
- **Easy access** to connectors outside the box
- **Quick and easy** assembly of the remote control module (electric or pneumatic)
- **Striker pin rearming device built into** the mechanism
- **Regulating filter with pressure gauge**
- **Opening-Closing ventilation** control
- **One-piece box fitted in a single step**
- **Increased CO₂ cartridge capacity** in relation to the size of the box
- **Attachment bracket that can be adapted to the substrate**
- **Easy push-button** striker triggering
- **Tube cover** delivered with each box

Technical data

Reference	Dimensions L x H x D (mm)	CO ₂ cartridge for opening	Technical data sheet
XPJ320B	335 x 520 x 105	500 g max.	S24/NF
XPJ420B	560 x 520 x 105	500 g max.	
XPJ520B	335 x 700 x 105	720 g max.	
XPJ620B	560 x 700 x 105	720 g max.	

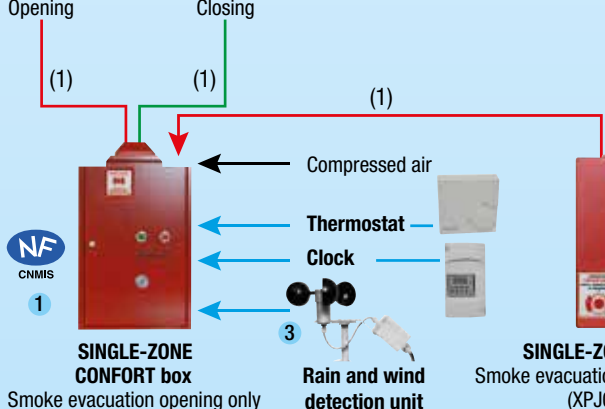
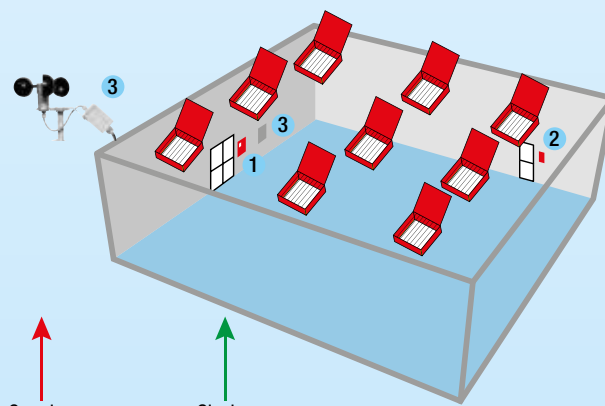
* MCD: Manual Control Device - ACD: Actuated Control Device - CMCD: Centralised Manual Control Device

Some applications



SINGLE-ZONE CONFORT box
Smoke evacuation opening only

(1) 4/6 protected copper connection according to NFS 61.932



SINGLE-ZONE CONFORT box
Smoke evacuation opening only

SINGLE-ZONE box
Smoke evacuation opening only
(XPJ027)

Operating principle

For smoke evacuation:

- Opening: CO₂ cartridge
- Closing: compressed air

For ventilation:

- Opening: compressed air
- Closing: compressed air



Fire safety centralisation



XPJ360B

CONFORT

Single-zone Confort CO₂ pneumatic smoke evacuation control—priority given to opening and closing



SINGLE-ZONE, DUAL-FUNCTION CO₂ pneumatic smoke evacuation controls (MCD*, ACD* or CMCD*) are designed to emit an opening order to natural smoke and heat exhaust ventilator systems (SHEVS) by means of **single-use A.P.S.** (CO₂ cartridges).

They are used to open smoke evacuation devices using a push-button control. The devices are also closed using a single push-button. The **DUAL-FUNCTION** model has an opening-closing ventilation control. The smoke evacuation function has priority over the **ventilation** function at all times. The standard ranges are fitted with a deformable diaphragm and are accessible at level 0 (§4.1 of NF S 61-931). Standard boxes can be adapted by request with, for example, vandal-proof doors, access at level 1 (§4.2 of NF S 61-931) or cabinets (CMCD*) with a number of strikers to be determined.

Strengths

- **Easy access** to connectors outside the box
- **Quick and easy** assembly of the remote control module (electric or pneumatic)
- **Striker pin** rearming device **built into** the mechanism
- Regulating filter **with pressure gauge**
- Purge switch with **automatic reset**
- **Opening-Closing ventilation** control
- **One-piece box** fitted in a **single step**
- **Increased** CO₂ cartridge capacity in relation to the size of the box
- Attachment bracket **that can be adapted to the substrate**
- **Easy push-button** striker triggering
- Tube cover delivered with each box



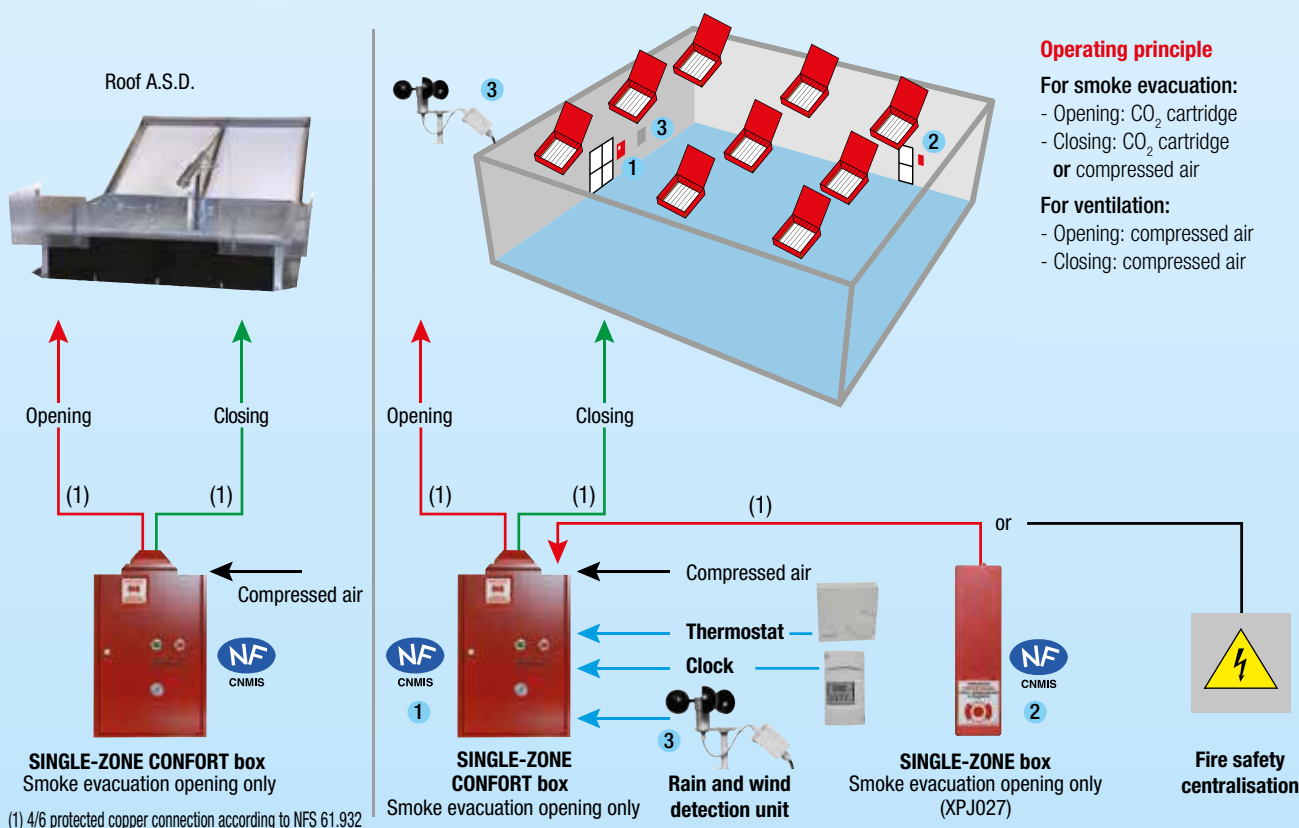
Technical data

Reference	Dimensions L x H x D (mm)	CO ₂ cartridge for opening	Technical data sheet
XPJ360B	560 x 520 x 105	500 g max.	S26/NF

* MCD: Manual Control Device - ACD: Actuated Control Device - CMCD: Centralised Manual Control Device



Some applications





XPJ330B
to **XPJ630B**

Dual-zone opening/closing CO₂ pneumatic smoke evacuation control



DUAL-ZONE CO₂ smoke evacuation controls (MCD*, ACD* or CMCD*) are designed to emit an opening or closing order to natural smoke and heat exhaust ventilator systems (SHEVS) by means of **single-use A.P.S.** (CO₂ cartridges).

They are used to simultaneously open two smoke evacuation zones using a single push-button control. All zones are closed by a second push-button.

The standard ranges are fitted with a deformable diaphragm and are accessible at level 0 (§4.1 of NF S 61-931).

Standard boxes can be adapted by request with, for example, vandal-proof doors, access at level 1 (§4.2 of NF S 61-931) or cabinets (C.M.C.D.*) with a number of strikers to be determined.

Strengths

- “Clippable” tube cover delivered with each box
- Easy **push-button** triggering of the strikers
- Attachment bracket that can be adapted to the substrate
- Purge switch with **automatic reset**
- **Optimisation** of CO₂ cartridge capacity in relation to the size of the box
- **One-piece** box fitted in a single step
- Striker pin rearming device **built into** the mechanism
- **Just one** remote control module to open both zones
- Electric or pneumatic remote control modules
- **Quick and easy** installation of the remote control modules

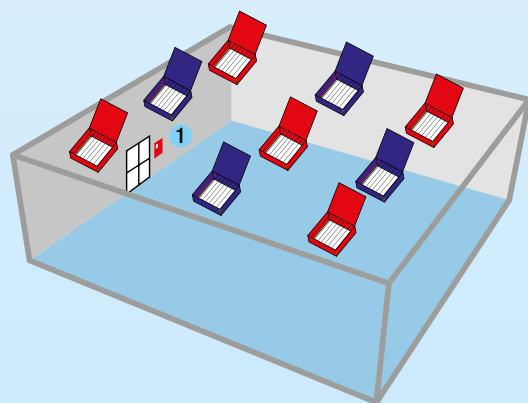


Technical data

Reference	Dimensions L x H x D (mm)	CO ₂ cartridge for opening	CO ₂ cartridge for closing	Technical data sheet
XPJ330B	335 x 520 x 105	300 g max.	500 g max.	S19/NF
XPJ430B	560 x 520 x 105	500 g max.	500 g max.	
XPJ530B	335 x 700 x 105	300 g max.	720 g max.	
XPJ630B	560 x 700 x 105	720 g max.	720 g max.	

* MCD: Manual Control Device - ACD: Actuated Control Device - CMCD: Centralised Manual Control Device

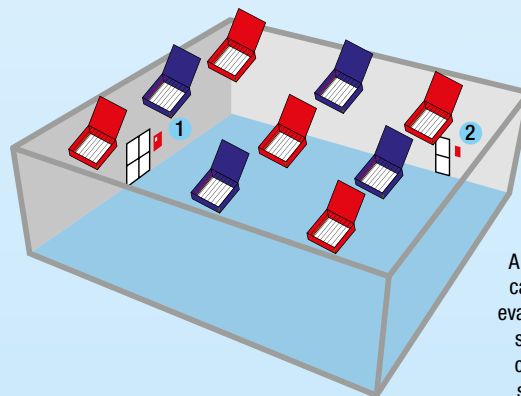
Some applications



Zone 1 opening (1)
Zone 2 opening (1)
Zones 1 and 2 closing (1)



DUAL-ZONE box:
2 openings + 1 closing



Zone 1 opening (1)
Zone 2 opening (1)
Zones 1 and 2 closing (1)

For this type of configuration, insert the pneumatic or electromagnetic module into the O/C box triggering device



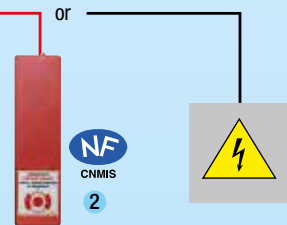
DUAL-ZONE DUAL-FUNCTION box
Smoke evacuation:
2 openings + 1 closing

For smoke evacuation:

- Zone 1 Opening: 1st CO₂ cartridge
 - Zone 2 opening: 2nd CO₂ cartridge
 - Closing: 3rd CO₂ cartridge
- Simultaneous opening

Reminder:

A single-use cartridge (safety air supply) cannot supply all the skylights or smoke evacuation openings in the same sector for surface areas larger than 500 m² to be cleared of smoke. The system must be separated into two parts: DUAL-ZONE.



SINGLE-ZONE box:
Opening only (XPJ027)

(1) 4/6 protected copper connection according to NFS 61.932



XPJ340B

and

XPJ640B

CONFORT

Dual-zone Confort CO₂ pneumatic smoke evacuation control—priority to opening



DUAL-ZONE CO₂ pneumatic smoke evacuation controls (MCD*, ACD* or CMCD*) are designed to emit an opening or closing order to natural smoke and heat exhaust ventilator systems (SHEVS) by means of single-use A.P.S. (CO₂ cartridges).

They are used to simultaneously open two smoke evacuation zones using a single push-button control. The CONFORT model has an opening-closing ventilation control. The smoke evacuation function has priority over the ventilation function at all times. The standard ranges are fitted with a deformable diaphragm and are accessible at level 0 (§4.1 of NF S 61-931). Standard boxes can be adapted by request with, for example, vandal-proof doors, access at level 1 (§4.2 of NF S 61-931) or cabinets (CMCD*) with a number of strikers to be determined.

Strengths

- Easy access to connectors outside the box
- Quick and easy assembly of the remote control module (electric or pneumatic)
- Striker pin rearming device built into the mechanism
- Regulating filter with pressure gauge
- Purge switch with automatic reset
- Opening-Closing ventilation control
- One-piece box fitted in a single step
- Increased CO₂ cartridge capacity in relation to the size of the box
- Attachment bracket that can be adapted to the substrate
- Easy push-button striker triggering
- Tube cover delivered with each box



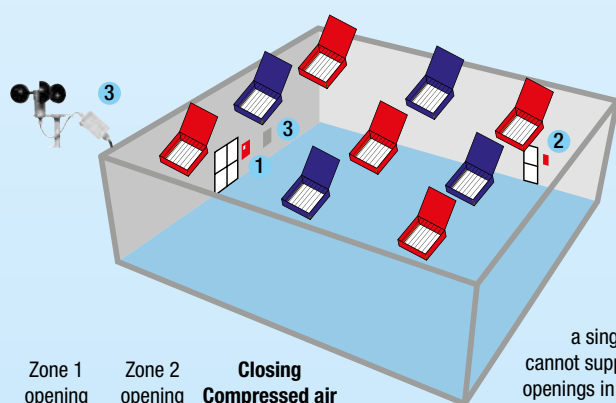
Technical data

Reference	Dimensions L x H x D (mm)	CO ₂ cartridge for opening	Technical data sheet
XPJ340B	560 x 520 x 105	500 g	S22/NF
XPJ640B	560 x 700 x 105	720 g	

* MCD: Manual Control Device - ACD: Actuated Control Device - CMCD: Centralised Manual Control Device



Some applications



Operating principle

For smoke evacuation:

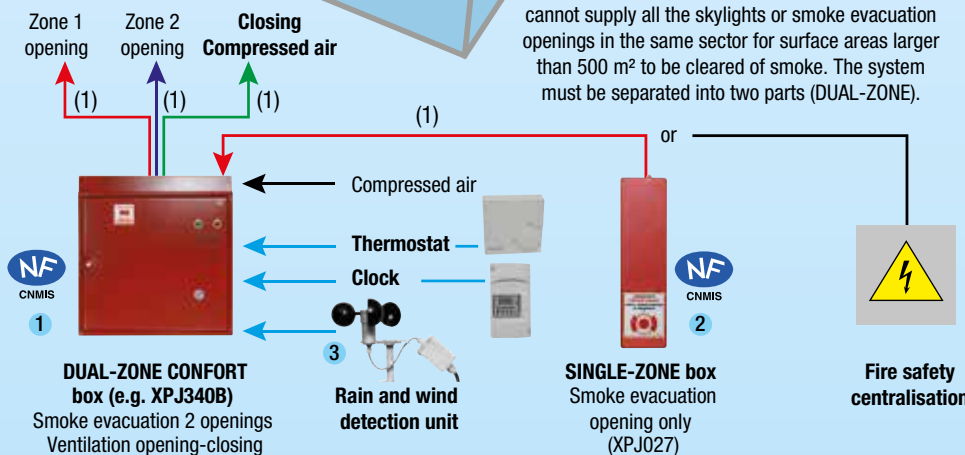
- Zone 1 opening: 1st CO₂ cartridge
 - Zone 2 opening: 2nd CO₂ cartridge
 - Zone 1 and 2 closing: compressed air
- } Simultaneous opening

For ventilation:

- Zone 1 and 2 opening: compressed air
- Closing: compressed air

Reminder:

a single-use cartridge (safety air supply) cannot supply all the skylights or smoke evacuation openings in the same sector for surface areas larger than 500 m² to be cleared of smoke. The system must be separated into two parts (DUAL-ZONE).



(1) 4/6 protected copper connection according to NFS 61.932



XPJ350B

and

XPJ650B

CONFORT

Dual-zone Confort CO₂ pneumatic smoke evacuation control—priority given to opening and closing



DUAL-ZONE CO₂ pneumatic smoke evacuation controls (MCD*, ACD* or CMCD*) are designed to emit an opening or closing order to natural smoke and heat exhaust ventilator systems (SHEVS) by means of **single-use A.P.S.** (CO₂ cartridges). They are used to simultaneously open two smoke evacuation zones using a single push-button control. All zones are closed by a second push-button. The CONFORT model has an opening-closing ventilation control. The smoke evacuation function has priority over the **ventilation** function at all times.

The standard ranges are fitted with a deformable diaphragm and are accessible at level 0 (§4.1 of NF S 61-931). Standard boxes can be adapted by request with, for example, vandal-proof doors, access at level 1 (§4.2 of NF S 61-931) or cabinets (CMCD*) with a number of strikers to be determined.

Strengths

- **Easy access** to connectors outside the box
- **Quick and easy** assembly of the remote control module (electric or pneumatic)
- **Striker pin** rearming device **built into** the mechanism
- **Regulating filter with pressure gauge**
- **Purge switch with automatic reset**
- **Opening-Closing ventilation** control
- **One-piece box** fitted in a single step
- **Increased CO₂ cartridge capacity** in relation to the size of the box
- **Attachment bracket that can be adapted to the substrate**
- **Easy push-button** striker triggering
- **Tube cover** delivered with each box

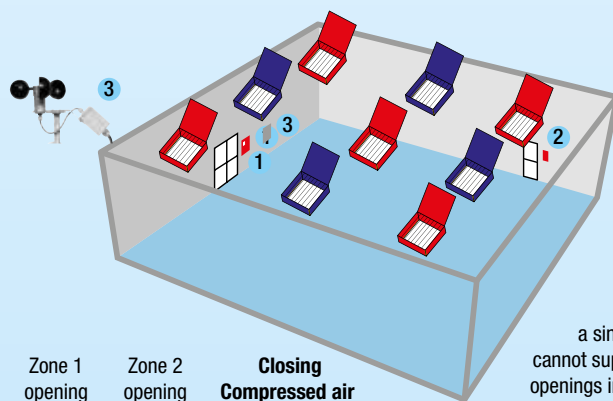


Technical data

Reference	Dimensions L x H x D (mm)	CO ₂ cartridge for opening	CO ₂ cartridge for closing	Technical data sheet
XPJ350B	560 x 520 x 105	500 g max.	500 g max.	S20/NF
XPJ650B	560 x 700 x 105	720 g max.	720 g max.	



Some applications



Operating principle

For smoke evacuation:

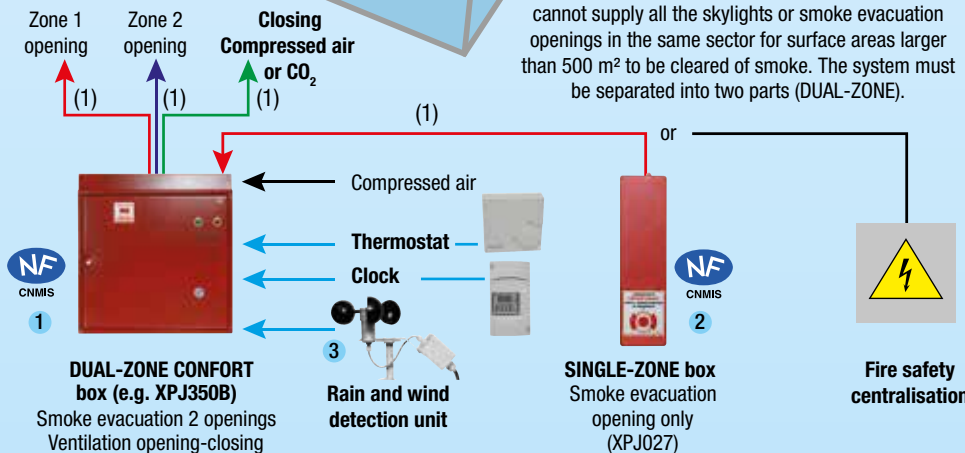
- Zone 1 Opening: 1st CO₂ cartridge
 - Zone 2 Opening: 2nd CO₂ cartridge
 - Zones 1 and 2 closing: 3rd CO₂ cartridge or compressed air
- Simultaneous opening

For ventilation:

- Zone 1 and 2 opening: compressed air
- Closing: compressed air

Reminder:

a single-use cartridge (safety air supply) cannot supply all the skylights or smoke evacuation openings in the same sector for surface areas larger than 500 m² to be cleared of smoke. The system must be separated into two parts (DUAL-ZONE).



(1) 4/6 protected copper connection according to NFS 61.932



ACCESSORIES AND MISCELLANEOUS EQUIPMENT

MECHANICAL

150 kg crank handle
Ref: XTN 100



Lever protection box
Ref: XAV 100



100 kg crank handle
Ref: XTC 100B



Crank handle protection box with spanner wrench lock
Ref: XAV 102



Protection box
Ref: XAV 100



Pulleys



Electric mushroom button protection box
Ref: XAV 100



PNEUMATIC

Pneumatic cabinet



Thermal fuses



Cartridges



Unions



Cartridges for thermal fuses



Copper



Quick purge



ELECTRIC

NF Central Detection Head
Ref: XE2208F



"Raise and lower" switch
Ref: XE2102



Rain and wind sensor
Ref: XP1913



CR1 electric cable
3 x 1.5 mm



Mushroom button box
Ref: XE2100



MISCELLANEOUS

PVC sleeves



ELECTRIC CONTROL

ACD unit
Ref: XEC4503-TCOMP



12V/3.4Ah battery for ACD unit



Break-glass hammer for ACD

