

# Double Open Only CO<sup>2</sup>

Technical File  
NF039 E

## ECOS520 - ECOS521

### Description - General information

MCS/SCP control panel with pneumatic evacuation for single use PSC

Smoke exhaust control box with metal casing in red.

Two manually controlled open only pin hammers.

Clip-on mounting (no tools needed) of an electric or pneumatic DCM.

Clip-on casing to facilitate installation.

On the front, two plastic ejection flaps give access to the pin hammers. (depending on the model)

Locked with a safety key.

Space for spare cartridges.

Delivered with plastic seal.



NF - Control devices  
for Fire Safety Systems  
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ECOS520  
door with  
ejection flap



ECOS521  
door without  
ejection flap

### Clip-on module



### Pre cut-out for trunking or pipe



### Casing can be dismantled



### Boss on rear



### Casing lock



### Product identification



**Information on label**  
(from top to bottom)  
- Manufacturer's name  
- Manufacturer's number  
- Certification body  
- Module possible  
- Article code  
- Lot number  
- DCM output pressure (in use)

### Electric DCMs

Ref.	Type
MOD24E (M1)	24Vcc - 3.5W - Transmission mode
MOD24R (M2)	24Vcc - 1.8W - Break mode
MOD48E (M3)	48Vcc - 3.5W - Transmission mode
MOD48R (M4)	48Vcc - 1.8W - Break mode

### Pneumatic DCM

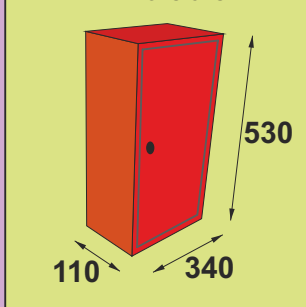
Ref.	Type
MODP (M5)	Pressure: 6 to 20 bar

### Maximum grammage

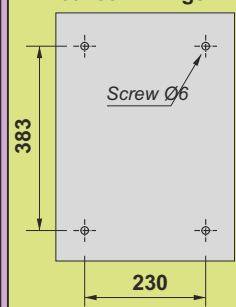


Cartridges must be screwed in place manually.

### Dimensions



### Between fixings



**NF - Control devices for F.S.S.**  
This mark certifies :  
- conformity to the norm NF S 61-938 for S.C.P.s  
- the values of the characteristics given in this technical file.  
**Certification Body**  
AFNOR Certification - 11 Rue F. de Pressensé  
93571 LA PLAINE SAINT DENIS CEDEX

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## ECOS520 - ECOS521

### REMINDER :

**Height of installation:** § 9.1 of the NFS 61-932

The safety device to be used should be fitted at a height of between 0.90m and 1.30m from the ground.

**Pipes and connections:** § 7.2 of the NFS61-932

Pipes should be made entirely of copper or stainless steel. Connections should be airtight, metal against metal.

Pneumatic piping should run through the interior of the building, to avoid the risk of freezing.

**Performance and testing:** § 6.4 of the NFS61-932

The calculation to define the capacity required should be based on the characteristics of the components of the system to be fed and should take into account the characteristics of the circuit.

The pressure should be checked using a specialised tool (for example a pressure gauge) in order to make sure that the pressure present in the circuit corresponds to this calculation. In addition, this tool will check the airtightness of the circuit.

### Installation

Lift off the casing.

**Check that the wall or hanging surface is completely flat, in order to ensure that the box is fitted correctly.**

Fix the back of the box to the wall or hanging surface.

Connect the box to the copper circuit.

Put the pipe into the joint, tighten manually and then with a spanner, until it is secure. (1.5 turns maximum)

### Testing

Lift up the pin hammer levers.

Screw the CO<sup>2</sup> cartridges in place MANUALLY.

Carry out the manual or distance controlled triggering action (if DCM is installed) for opening.

Proceed to the resetting of the box. (See below)

### Resetting

#### DCM

Make sure that the DCM command is switched off:

**If modules M1 to M4 are in place :**

Electric DCM line :

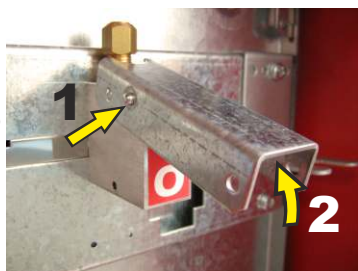
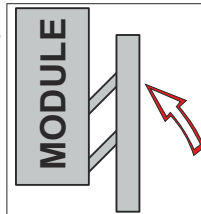
**Power on in Break mode**

**Power off in Transmission mode**

**if module M5 is in place :**

pneumatic DCM line **pressure off.**

Reset the DCM by raising the front cover up and pushing it back into place.



Press on the ball (1) and raise the lever (2) up to the top. (See opposite)

Insert new cartridges into the box. (for use and a spare).

Put the ejection cover back in place. (depending on the model)

Close the door and secure with a new seal.

### Installation (continued)

Use the pre cut-out on the cover to pass through the pipe(s).

Attach the casing to the back and turn the clips outwards to lock in place.

Insert the cartridges for use into the box. Screw the plastic nut onto the heads of the spare cartridges and place them on their brackets.

Close the door.

Fix the seal in place.

### Connection of DCMs

See corresponding technical files.

### SMOKE EXHAUST Use

In the case of a fire, push open the ejection flap and pull down the pin hammer levers.

### Maintenance

**THE PRODUCT, every 6 months.**

Check that everything is in good working order.

Check the condition of the pins.

**INSTALLATION**, see according to norm NFS61-933

### Easy installation, useful material

To carry out the installation of this product, you will need the following :

Pressure control kit	KIP01
Copper piping	TCB506
Copper reel	TCC2506
Straight joint	RAU2621
T joint	RAU2623
Elbow joint	RAU2622
Steel piping	TAT2508
Metal trunking	GM201
CO <sup>2</sup> Cartridge	CARDE50.....
DCM	MOD...
Pressure indicator box	BIP02



**BIP02**  
with 2 pressure gauges  
for Double Open Only box.

### Technical Characteristics

Material	:Steel, brass, aluminium
Protection	:Zinc coating: RAL3000
Safety measures	:To be handled with the fingers.
Force to be applied	:< 5 daN.
Protection index	:IP42.
Energy	:Co <sup>2</sup> or inert gas.
DCM exit	:Olive screw connection
Temperature during use	:+ 5°C to + 50°C
Pressure	:operating = 3 to 20 bar
	in use = 60 bar
	during testing = 90 bar.
CO <sup>2</sup> cartridge pitch	:5 x 125
DCM connection	: - electric (cf.: file NF012)
	Running factor : 100 % at a temperature of 20°C ± 5°C
	Voltage (Un) : 24 or 48 volts continuous current T.B.T.S.
	Consumption at nominal voltage (Un) : 3,5 W (24 or 48 volt c.c. transmission)
	1,8 W (24 or 48 volt c.c. break)
	- pneumatic (cf.: file NF013)
	Consumption : 0,01 normo-litre.
	Pressure of DCM : Minimum = 6 bar - Maximum = 20 bar.
Precautions	:Stock and install away from bad weather conditions.

