# **DUAL-ZONE CO<sup>2</sup>**

## Technical File **NF040 H**

# NF - Control devices

for Fire Safety Systems www.marque-nf.com



ejection flap

### **ECOBI500 - ECOBI501**

#### **Description - General information**

MCS/SCP control panel with pneumatic evacuation for single use PSC Smoke exhaust control box with metal casing in red.

Device consisting of 2 pin hammers for opening and 1 pin hammer for closing.

Automatic drainage system.

Clip-on casing to facilitate installation

On the front, a plastic ejection flap gives access to the pin hammer. (Depending on the model) Clip-on mounting (no tools needed) of an electric or pneumatic DCM.

Locked with a safety key.

Space for spare cartridges.

Delivered with plastic seal.





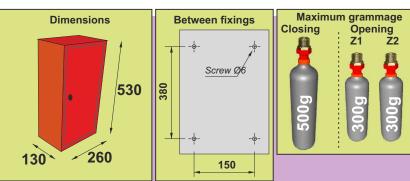




Boss on rear

Electric DCMs		
Ref.	Туре	
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.	Туре
M	ODP (M5)	Pressure: 6 to 20 bar



**Casing lock** 



Cartridges must be screwed in place manually.

#### 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.

## **DUPUY EQUIPEMEI**

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## DUAL-ZONE CO<sup>2</sup>

## **ECOBI500 - ECOBI501**

#### 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

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

NOTE: In order to check the quincuncial distribution of the outlets, lift off the handle which connects the 2 opening control devices and trigger them individually.

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.

Carry out the closing procedure.

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)

#### **TO CLOSE**

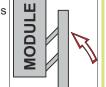
Press on the ball (1) and raise the lever (2) up to the top. (See below)

Note: The resetting of the CLOSE pin hammer automatically places the circuit selector back into standby position.

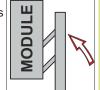
Insert new cartridges into the box. (for use and spares).

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

seal









Close the door and secure with a new

#### **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.

#### Connexion 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 lever.

The 2 zones are triggered simultaneously.

To close, open the door with the safety key, then push down the close lever

(Lever marked CLOSE in blue)

#### 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
Tjoint	RAU2623
Elbowjoint	RAU2622
Steel piping	TAT2508
Metal trunking	GM201
CO <sup>2</sup> Cartridge	CARDE50
DCM	MOD
Pressure indicator box	RIP02



BIP02 with 2 pressure gauges for Dual-zone box.

#### **Technical Characteristics**

Material . . . . . . . : Steel, brass, aluminium. :Zinc coating: RAL3000 Safety measures . . . . . . . :To be handled with the fingers.

Force to be applied . . . . . . :<5daN. Protection index . . . . : IP42. :Co2 or inert gas. :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 . . . . . :15 x 125

DCM connection . . . . - electric (cf.: fileNF012) 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. .....:Stopped solution 1510, ref.: KIT2PC211. Options :Stock and install away from bad weather conditions.

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