

Open Only CO² + ventilation O/C

Technical File
NF041 G

ECOMIX500 - ECOMIX501, 1 smoke exhaust zone
ECOMIX520 - ECOMIX521, 2 smoke exhaust zones



NF - Control devices
for Fire Safety Systems
www.marque-nf.com

Description - General information

MCS/SCP control panel with pneumatic evacuation for single use PSC
Smoke exhaust control box and air ventilation unit with metal casing in red.
One or two manually controlled pin hammers. (depending on the model)
Clip-on mounting (no tools needed) of an electric or pneumatic DCM.
Clip-on casing to facilitate installation.
On the front, a plastic ejection flap gives access to the pin hammer.
Locked with a safety key.
Space for spare cartridges.
Delivered with plastic seal.



ECOMIX500
door with
ejection flap



ECOMIX501
door without
ejection flap



ECOMIX520
door with
ejection flap



ECOMIX521
door without
ejection flap

Ventilation unit
Open / close
Lever control,
electro-valve
optional

Pre cut-out for trunking or pipes



Clip-on module



Casing can be dismantled

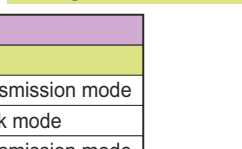


Boss on rear



Filter
Regulator gauge
40 microns

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)
- Characteristics of ventilation unit

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

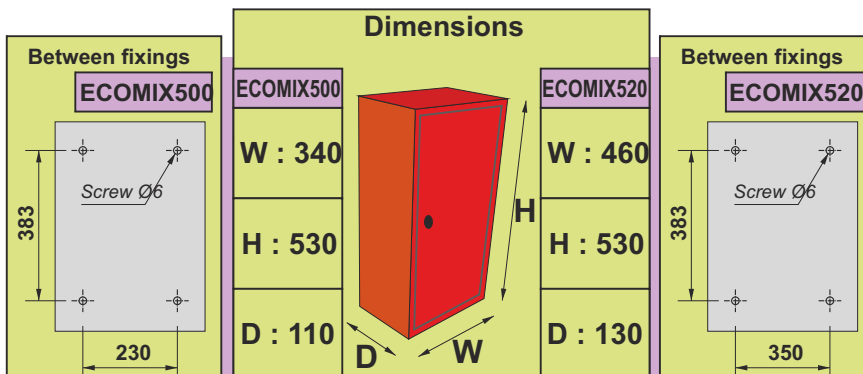


Cartridges must be screwed in place manually.



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



DUPUY EQUIPEMENTS

Les Ajeux - 72400 La Ferté Bernard - France
Tél. : +33 (0)2 43 60 78 60 - Fax : +33 (0)2 43 93 41 94
e-mail : clients@de72.fr



www.dupuy-equipements.com

ECOMIX500 - ECOMIX501, 1 smoke exhaust zone

ECOMIX520 - ECOMIX521, 2 smoke exhaust zones

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 lever.

Screw the CO² cartridge 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 :

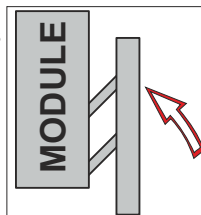
Power on in Break mode

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.

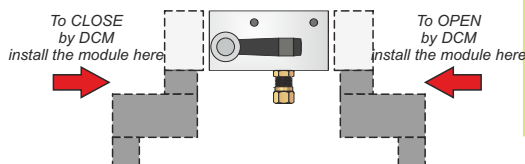
Installation (continued)

Connecting the compressed air system

Connect the compressed air system to the filter joint

Ventilation unit DCMs

See corresponding technical files



Putting the air ventilation into service

Carry out open/close operating cycles by moving the ventilation unit lever up or down.

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 lever.

To close after use, unscrew the cartridge(s) in order to drain the system.

Push the stud(s) situated on the right of the ventilation unit back towards the left.

Push down the ventilation unit lever.



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 ² Cartridge	CARDE50.....
DCM	MOD...
Pressure indicator box	BIP01
Electro-valve ventilation unit	MODA...

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 : Co² 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

CO² cartridge pitc. : 15 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.

Ventilation operating device:

- Ventilation unit type 2, open and close (ECOMIX500,501)

- Ventilation unit type 4, dual-zone open and single close

(ECOMIX520,521)

Ventilation energy : Compressed air filtered at 40 µ (dry air without oil).

Ventilation pressure : Compressed air from 3 to 10 bar.

Precautions : Stock and install away from bad weather conditions.