

PNEUMATIC Roof WINDOW O/C

OPEN AND CLOSE BY PNEUMATIC CYLINDERS

EF P

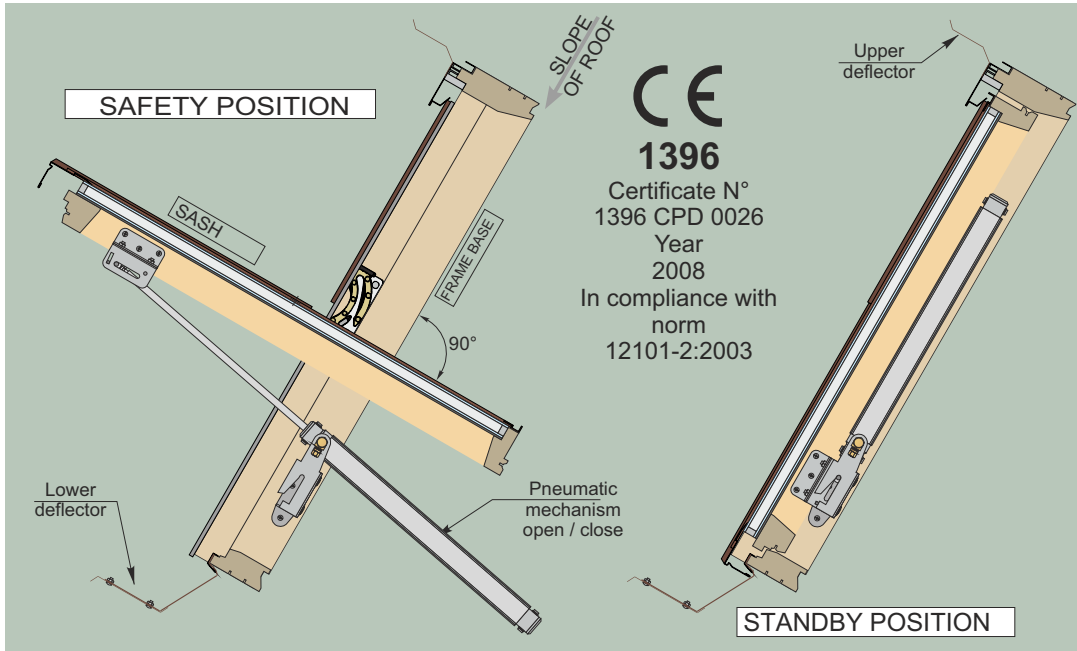
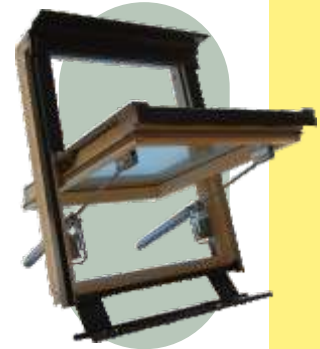
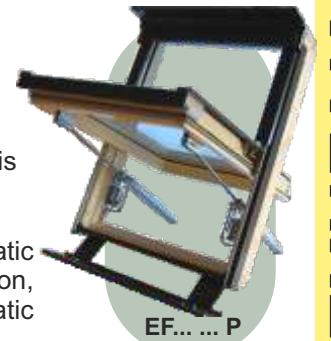
Technical File
CE/NF003c

EXUFAK®

Description - General Information

S.H.E.V., Natural Smoke and Heat Exhaust Ventilator, operated by pneumatic energy, which ensures the smoke and heat exhaust of a premises in the case of fire. It is served by a manual pneumatic or modular control device to give a safety pneumatic energy supply.

After issuing a command, by impact on a CO2 cartridge or automatically by a pneumatic thermal trigger, the window goes from its closed standby position into its safety position, which is an opening maintained at 90° in relation to its frame base using two pneumatic cylinders.



NF
www.marque-nf.com
NF - Smoke and Heat Exhaust Ventilator

This mark certifies :
conformity to norms
NF S 61-937-1 and NF S 61-937-7
accordance with the rules for certification NF 405
of 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

EXUFAK®								
Reference SHEV	EF078098P	EF078118P	EF078140P	EF094118P	EF114118P	EF114140P	EF134098P	EF134140P
Dimensional code	05	06	07	08	10	11	12	17
Overall Dimensions W x H in mm	780x980	780x1180	780x1400	940x1180	1140x1180	1140x1400	1340x980	1340x1400
User-defined Dimensions W x H in mm	700x908	700x1108	700x1328	860x1108	1060x1108	1060x1328	1260x908	1260x1328
Geometric Surf. of SHEV in m² (Av)	0,64	0,78	0,93	0,95	1,17	1,41	1,14	1,67
Usable Surf. of Opening in m² (Aa)	0,35	0,43	0,51	0,51	0,62	0,69	0,56	0,79

Reference	Composition of glazing		
	Exterior glazing	Gas cavity	Interior glazing
4HT - 14 - 33.1 Standard glazing	4mm toughened GREEN	14 mm Argon	33.1 Laminated
Other glazings possible			
4H - 16 - 4T	4 mm toughened	16 mm Argon	4mm
4HT - 14 - 33.1	4 mm toughened NEUTRAL	14 mm Argon	33.1 Laminated
4H - 14 - 33.1	4 mm toughened	14 mm Argon	33.1 Laminated

* :Glass GUARDIAN SUN GUARD HP PLUS 50

Area of validity

General characteristics of Actuated devices of Safety (ADS) :

- An A.D.S. must not issue commands
- Devices which allow the control of safety and/or standby positions of the ADS
- Unblocking power external to the ADS
- Operational independence of the automatic and distance controls
- No distance controlled resetting if set in safety position by automatic control
- Resetting by distance control if the power has been interrupted during the previous resetting

General characteristics of the constituents :

- Control of the positions of the A.D.S.
- Class III for the electrical elements working under safety extra low voltage (SELV)
- Insulation of SELV electrical circuits and of the electrical circuits of other devices
- Minimum protection index IP 42
- Presence of the principal connection device
- Specific SELV connection device
- Functioning of the traction stop device
- Minimum electrical characteristics of the position contacts
- Independence of electrical control circuits from other circuits
- Test pressures of pneumatic materials

Characteristics of the distance control input :

- Characteristics of the distance control input through steel cable
- Characteristics of the electric distance control input
- Characteristics of the pneumatic distance control input

Characteristics of the power input :

- Characteristics of the electric power input
- Characteristics of the pneumatic power input



The weathertight connections on the roof must be determined according to the type of roof covering. They are delivered separately from the SHEV.

DUPUY EQUIPEMENTS

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www.dupuy-equipements.com

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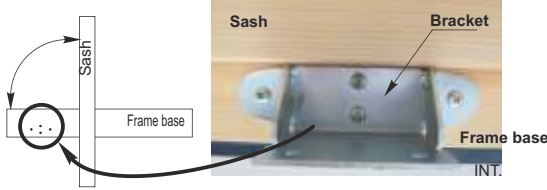
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Installation of the window

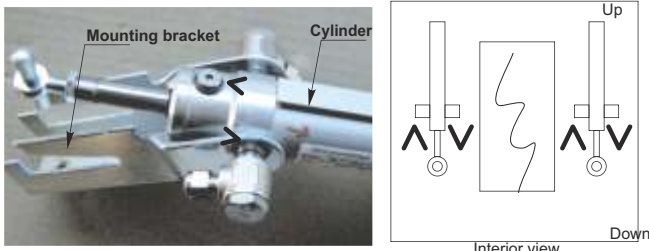
For instructions regarding the installation of the "roof window" outlet on your roof, see the installation manual provided by FAKRO®. (green envelope taped to the window pane)

Installation of the equipment

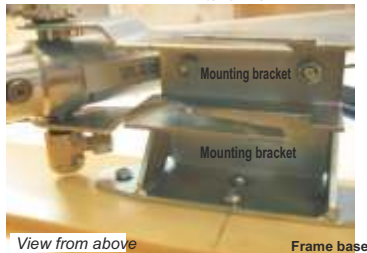
Using the pre-drilled holes, fix the oil pneumatic spring pivots symetrically on each side of the frame base. (8 screws)



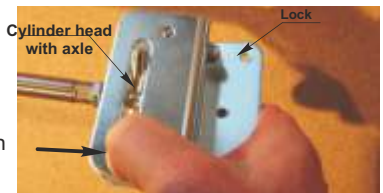
The component below (cylinder and bracket) fits into place on each bracket mounting support. Unlock the cylinder and gently pull out the piston rod.



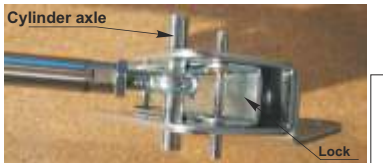
Fasten onto each bracket mounting support, using the screws provided.



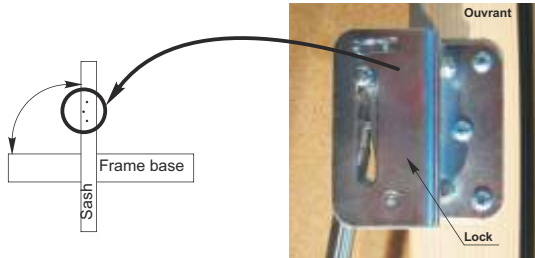
Push the lock pin towards the right (arrow) then put the head of the cylinder with its axle into the rectangular hole of the lock. Swivel the lock around to finish slotting it into position.



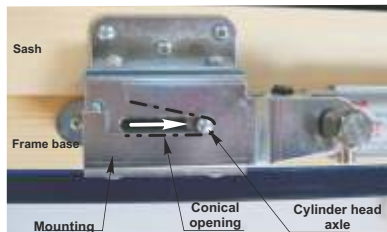
The axle of the cylinder sticks out through the lock.



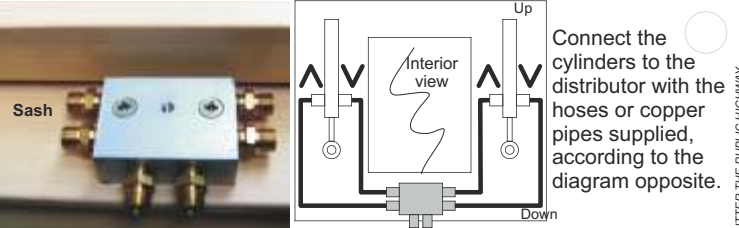
Position the sash at 90° in relation to the frame base. Using the pre-drilled holes, fasten the locks on the pneumatic cylinder heads symetrically on each side of the sash. (6 screws supplied)



Close the window manually and push the axle of the cylinder head into the conical opening on each side of the mounting bracket. (white arrow)



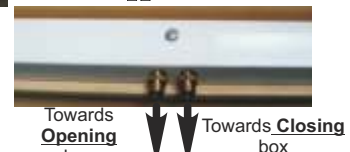
Using the pre-drilled holes, fasten the pneumatic distributor at the centre of the frame base. (2 screws supplied)



Connect the cylinders to the distributor with the hoses or copper pipes supplied, according to the diagram opposite.

Frame base

Put in place the U-shaped cover over the hoses or pipes, then fasten it onto the pneumatic distributor. (1 screw supplied)



Installation of the deflectors

Remove the screws from the lower part of the FAKRO® frame base. Put into place the brackets for the deflectors under the FAKRO® frame base, then fasten them using the holes on the FAKRO® frame base as a guide for the spacing. (screws TF VBA Ø4 x 45)

Fix the deflector onto the brackets. (screws, nuts M5)

NOTE :
Window width 780 mm : 2 brackets
Other window widths : 3 brackets

Remove the screws from the upper part of the FAKRO® frame base. Put the deflector into place and fasten it on top of the upper frame base of the FAKRO®. (screws TF VBA Ø4 x 45)



Maintenance

PRODUCT, functional check to be done at least once a year :
Carry out a triggering from the control device.
Check that the window goes correctly into the safety position (opening to 90°)
Clean the exterior of the window.
Close the window.
Proceed to the resetting of the control device.
Check that the SHEV and its control device are in good condition.
INSTALLATION, see according to norm NFS61-933

Identification and markings

E.ALIM : power input
E.TELE : distance control input
E : transmission
R : break

<p>DUPUY EQUIPEMENTS 72400 La Ferté Bernard Tel : +33 (2) 43 60 78 60 Fax : +33 (2) 43 93 41 94 clients@de72.fr</p>	<p>CE Certificate N° 1396 Year 2008 In compliance with norm 12101-2:2003</p>	<p>Aa= x.xx㎡ WL 1500 SL 1000 T (00) Re 1000 + 10000 B 300 F type B Therm. trigger : T=93°C Series N° : XXXXXXXXX</p>	<p>Certification N° : NFxx/xxxx SHEV : roof mounted Dim. of opening : . x . . . h E.TELE /E. ALIM : Pneumatic energy Minimum pressure : 6 bar Volume of cylinders : 0.64 litre Consumption : 3.84NI</p>
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Specifications

Surface "Aa"	: See table
Wind load "WL"	: 1500
Snow load "SL"	: 1000
Ambient temperature "T"	: 00
Reliability "Re"	: 1 000 + 10 000 cycles of ventilation
Resistance to heat "B Roof"	: 300
Reaction to fire	: F
Temp. of thermal triggering :	: 68 and 93°C
Bearing plane angle	: from 15° mini. to 60° maxi. in relation to the horizontal.
SHEV mechanism type	: Type B (open and close)
Volume of cylinders	: 0.64 litre not including servo-systems network.
Operating pressure	: 6 bar.
Consumption	: 3.84NI.

Technical Characteristics

Material : Wood, steel, aluminium, glass, synthetic material, tin, copper.
Protection : Varnish, paint, zinc coating.
Glazing : Double-glazed glass. (see table)

