



Installation and maintenance instructions

Pyromax Electric

Designation and commercial reference: Pyromax Electric

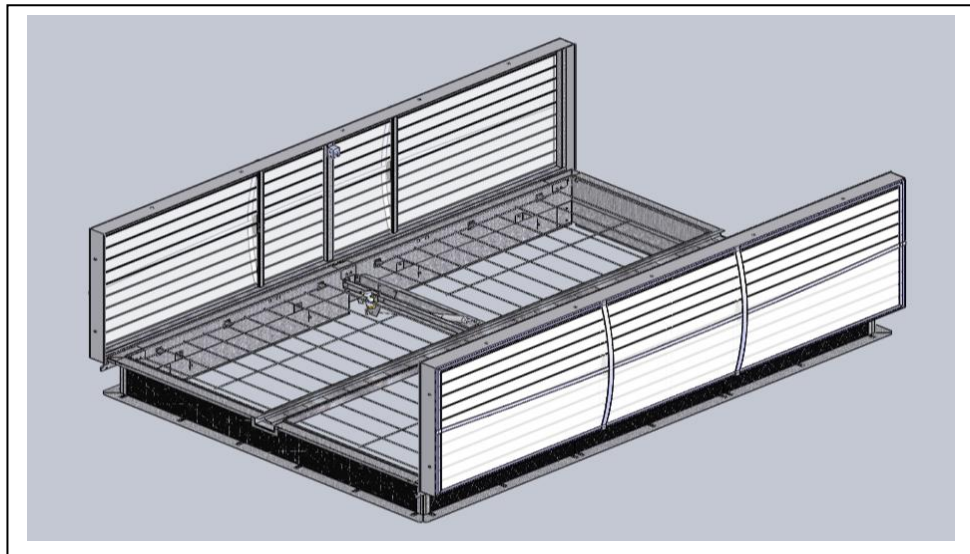
Certificate No.: 0402-CPR-C500025

DOP No.: ELP

Year of certificate: 2020

Reference standard: NF EN 12101-2

Warning: This notice cannot constitute a contractual document; the manufacturer reserves the right to make without notice any modification he deems useful.



Certifying body:

RISE Research Institutes of Sweden
Division Safety and Transport - Safety
Box 857, 501 15 Borås, Sweden



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1. Identification

1. Type of DENFC (Natural Smoke and Heat Evacuation System)

DENFC mounted on the roof.

2. Type of range

A double smoke extraction opening of the PYROMAX® range.

3. Type of energy

DENFC powered by internal and/or external electrical energy within the meaning of standard NF EN 12101-2. The availability of the energy source must be ensured.

4. Possible variants in the range

- Costières:
 - Right rib
 - Styling Costume
 - Costière bias

- Fills:
 - Honeycomb polycarbonate hood thickness 10 to 32 mm
 - Aluminum cover
 - Acoustik'light

- Options:
 - Ventilation (about 20°) control by cabinet
 - Fall arrest bar and/or burglary delay



2. Characteristics

1. General characteristics of Operated Safety Devices (SARs)

- A D.A.S. must not issue an order
- Devices for checking the safety and/or waiting positions of the D.A.S.
- Unblocking energy external to the D.A.S.
- Functional independence of the self-control and remote control
- No remote reset if passing in safety position by self-control
- Rearmament by remote control only if the energy to the previous rearmament has been interrupted
- End-of-life damping
- Type B or type A if height of the component to be handled less than or equal to 2.50 m from the ground

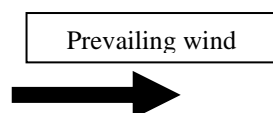
2. General characteristics of the constituents:

- Control of the positions of the D.A.S.
- Class III for electrical equipment operating under very low safety voltage (TBTS)
- Isolation of electrical circuits in TBTS and electrical circuits of other equipment
- Minimum protection class IP 42
- Presence of the main connecting device
- Specific TBTS connection device
- Operation of the traction stop device
- Minimum electrical characteristics of position contacts
- Independence of control electrical circuits with other circuits

3. Precautions on the support

1. The support receiving the DENFC must be flat, within the normative tolerances of building construction.
2. The installation of the DENFC is carried out according to one of the following two rules :
 - a) *Rule 1*

The maximum slope allowed when the axis of articulation is parallel to the roof slope is 20° or 3 6.45% with external deflectors.



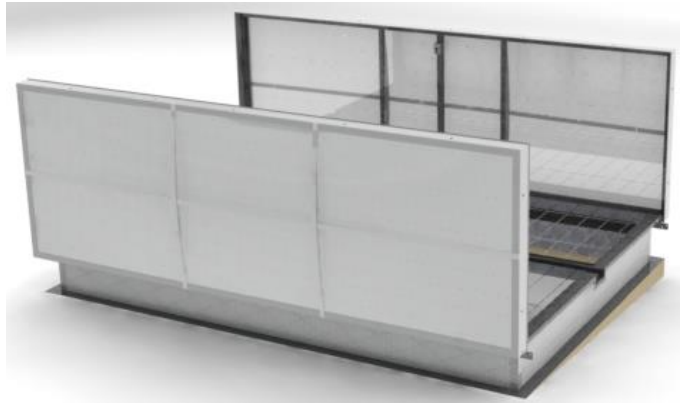


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b) Rule 2

The maximum slope allowed when the axis of articulation is perpendicular to the roof slope is 3° or 5.25%.



Roof slope:
(3)

Warning:

the device must be installed according to the standards, technical instructions, and any rules or texts in force.

the device must be installed

4. Explanation of the product marking code



SKYDÔME®
SONS-ET-RONCHÈRES

DEPARTEMENT ECLAIREMENT ZENITHAL ET DESENFUMAGE INCENDIE D'SKYDÔME SAS

Entre deux villes - 02270 Sons et Ronchères

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① N° certificat : 0402-CPR-C500025 - 2020 - CMU - M.toiture

② **NF EN 12101-2 2003**

Dispositif d'évacuation naturelle de fumées et de chaleur

③ **PYROMAX**



④ **Aa1.68 m²**

⑤ **TypeB; WL3000; SL250; T; RE1000;**

B300; B-s2, d0

⑧ **Option de sécurité : TGrd6**

⑥ **OF200712516.001 Code : CMU300H130J** ⑦


Date de fabrication : AOUT 2020 ⑨


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- ① Number of the certificate, its date of obtaining, D.O.P. number, type of assembly.
 - ② Reference standard in effect.
 - ③ Trade description of the device.
 - ④ Hopper size and Useful Aperture area (Aa).
 - ⑤ Respectively:
 - Type of opening of the natural smoke and heat evacuation device.
 - Classification of wind load.
 - Classification of snow load.
 - Ambient temperature classification.
 - Reliability classification.
 - Heat resistance classification.
 - Reaction to fire classification of the materials constituting the DENFC, according to the European standard in force.
 - ⑥ Manufacturing order number.
 - ⑦ Item code (for device traceability).
 - ⑧ Description of security options:
 - Trigger temperature for hot melt option.
 - Presence or absence of a position switch.
-  Date of manufacture of the device.

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5. The range

The input characteristics of the device are available on the CE marking label on the inside front of the costière.
Below is the summary table of the air consumption according to your device and the snow load (SLxxx).

PYROMAX ELECTRIC CONSUMPTION											
Dimension		SL250		SL 500		SL 800		SL 1000		SL 1500	
cm x cm		24V	48V	24V	48V	24V	48V	24V	48V	24V	48V
120	200	8	4	8	4	8	4	8	4	8	4
120	250	8	4	8	4	8	4	8	4	8	4
120	300	8	4	8	4	8	4	8	4	8	4
140	200	8	4	8	4	8	4	8	4	8	4
140	250	8	4	8	4	8	4	8	4	8	4
140	300	8	4	8	4	8	4	8	4	8	4
150	200	8	4	8	4	8	4	8	4	8	4
150	250	8	4	8	4	8	4	8	4	8	4
150	300	8	4	8	4	8	4	8	4	8	4
160	200	8	4	8	4	8	4	8	4		
160	250	8	4	8	4	8	4	8	4		
160	300	8	4	8	4	8	4	8	4		
180	200	8	4	8	4	8	4	8	4		
180	250	8	4	8	4	8	4	14,1	7,05		
180	300	8	4	8	4	8	4	14,1	7,05		
200	200	8	4	8	4	8	4	8	4		
200	250	8	4	8	4	12	6	14,1	7,05		
200	300	8	4	8	4	14,1	7,05	14,1	7,05		
220*	300	8	4	8	4	14,1	7,05	14,1	7,05		

* means that the costière is biased on the width.



6. Installation and implementation

1. The installation of the device

Caution: any maneuver that may damage the mechanisms and/or structure of the DENFC is prohibited. SKYDOME® cannot be held responsible for the impact of such maneuvers.

2. Implementation of PYROMAX® according to its support

- *Trimmer:* Through self-piercing screws or rivets or others
Bolts respecting a **maximum distance between 2 fasteners of 330 mm.**
- *Ribbed steel sheets:* Through self-drilling screws or rivets or the like
Bolts respecting a **maximum distance between 2 fasteners of 330 mm.**
- *Masonry support:* Through adapted fastenings respecting a **center distance Maximum between 2 fasteners of 200 mm.**


The insulation that may be present on the DENFC includes a bituminous film designed to receive leakage readings directly.

3. Installation of the PYROMAX® in enhanced version

The distance requirements described above are identical for the raised version subject to installation on a suitable existing support, namely: steel, concrete, wood, or any other material which has already passed the thermal deformation test described in (Unified Test Procedure) smoke extraction outletsla PEU.

The eometric surface (A_v) of the existing support costing must be greater than or equal to the geometric surface of the capping cost.

The smoke extraction DENFC must be fixed and sealed according to the requirements defined in the waterproofing D.T.U. (Unified Technical Document) in force.

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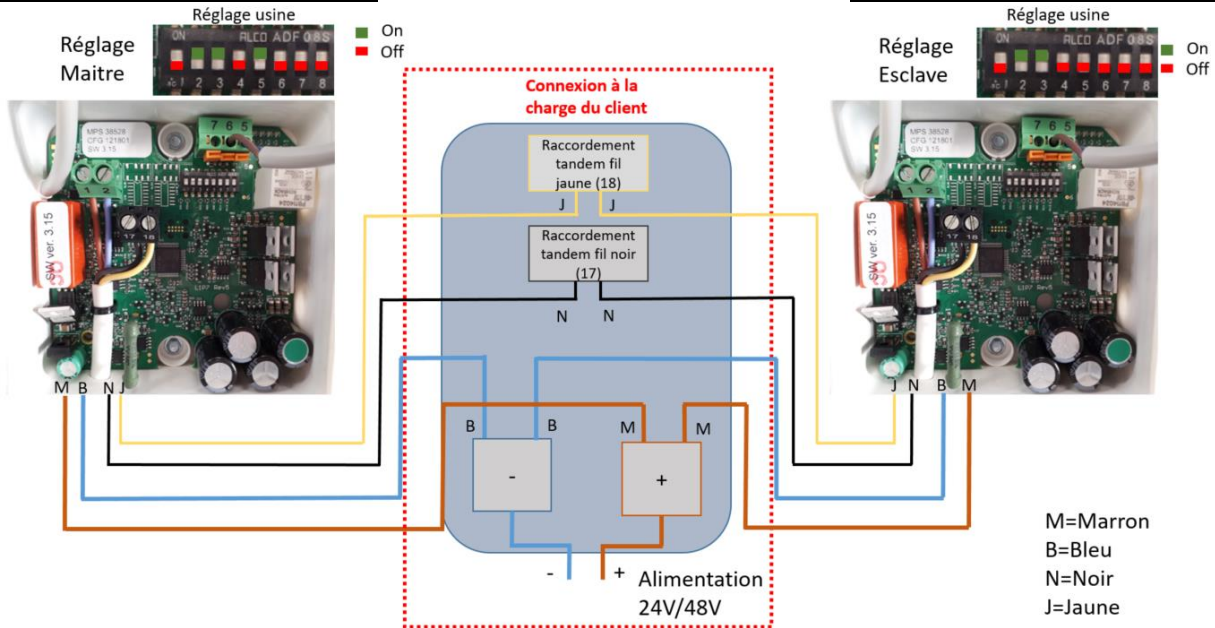


Simplified wiring diagram Tandem connected motors (two motors per opening)

Lip7: Limiter and power switch

Câblage Traverses ACTULUX en Tandem

Lip7: Limiter and power switch



RACCORDEMENTS ET PARAMÈTRES

DIP switch	off	on	Fonction	Paramètres*				
1	<input type="checkbox"/>	<input type="checkbox"/>		OFF	ON	ON	OFF	
4A / 24 VDC			Max. courant moyen. (Veuillez noter que ceci n'est qu'un exemple - peut varier selon les différents types de systèmes d'ouverture)	24V	2A	3A	2.5A	4A
				36V	1.5A	2.25A	1.9A	3A
				48V	1A	1.5A	1.25A	2A
2	<input type="checkbox"/>	<input type="checkbox"/>		OFF	OFF	ON	ON	
3	<input type="checkbox"/>	<input type="checkbox"/>	OFF = No 27kΩ pour surveillance de ligne	ON = 27kΩ pour surveillance de ligne à 2 fils (terminaux 1 & 2)				
↓ Seulement disponible pour LIP7 TA and LIP7 OC ↓								
4	<input type="checkbox"/>	<input type="checkbox"/>	OFF = Stand Alone mode (Seulement 1 système / LIP)	ON = Mode Communication (monter les dips sur ON sur les 2 systèmes / LIPs)				
5	<input type="checkbox"/>	<input type="checkbox"/>	OFF = Slave	ON = Maître (monter ON sur un système/LIP uniquement)				
6	<input type="checkbox"/>	<input type="checkbox"/>	OFF = Mode Synchro = Vérins à 3 fils	ON = Mode Tandem = vérins à 2 fils				
7	<input type="checkbox"/>	<input type="checkbox"/>	OFF = Aucune temporisation entre le Maître et l'esclave	ON = 7 secondes de temporisation entre le maître et l'esclave				
8	N/A							

(*) Veuillez noter que les paramètres d'alimentation ci-dessus sont standard - peuvent également être adaptés à des actuateurs Actulux spécifiques

DONNEES TECHNIQUES

Tension d'alimentation: 24-36-48VDC +/- 15%, Max. Ondulation: 2 Volt PP	
Résistance d'entrée: via le DIP, possibilité de connecter une résistance de 27 kΩ sur les bornes d'entrée de l'alimentation de la surveillance de ligne	
Courant maximum dans le relais de position: 30VDC / 2A	
Dimensions (l x b x h): 100 x 100 x 50 mm	
Matière: Plastique blanc	
Compatible avec les versions de LIP précédentes	
Indice de protection: IP54	
Longueur câble silicone: Standard 85 cm	
Certificats: En conformité: EN12101-2/EN60335-1/EN50130-4 Marquage: CE	
Références: 121305 (Basis) / 121306 (Tandem) / 121308 (OC Open/Close)	



7. Instructions for use

- For commissioning, ensure that the supply voltage is in line with the values defined in the table in paragraph 5. **The range.**
- Carry out a test(s) to verify the proper functioning of the DENFC. A total opening and closing of the device by checking that no element hinders the trajectory of the opening or its mechanism.

8. Maintenance instructions

Please note: our devices are not warranted for an exhibition that may alter the initial characteristics of an element or function of the DENFC.

The operation, maintenance and periodic verification operations will be carried out according to the requirements of the texts and standards in force as well as the following SKYDOME® requirements:


- Proceed at least 2 times a year to the opening/closing in a safe position of the DENFC.
- Verification operations:
 - In particular, check the condition of the joints, hinges, verror the rod of the cylinders. It is important to keep these elements lubricated (graise, oil), except the rod of the cylinders.
 - Control the tightening of the screwed elements (fixing the mechanism, etc.).
 - Check the effectiveness of the locking system.
 - When the rod of an actuator is scratched, deformed or shows signs of any other deterioration, replace it.
 - Do not clean the cylinder rod with a solvent, as this may damage it.
 - Do not paint the stem of the cylinders.
 - If necessary, clean the gasket(s) of the appliance and their support locations.
- DENFC verification operations must be carried out at least 1 time per year.

9. Replacement

All components of the device are available on request from SKYDOME.®

10. Options

The ventilation option is provided by the opening system itself. It does not in any way detract from the smoke extraction function of the natural smoke and heat evacuation system.

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