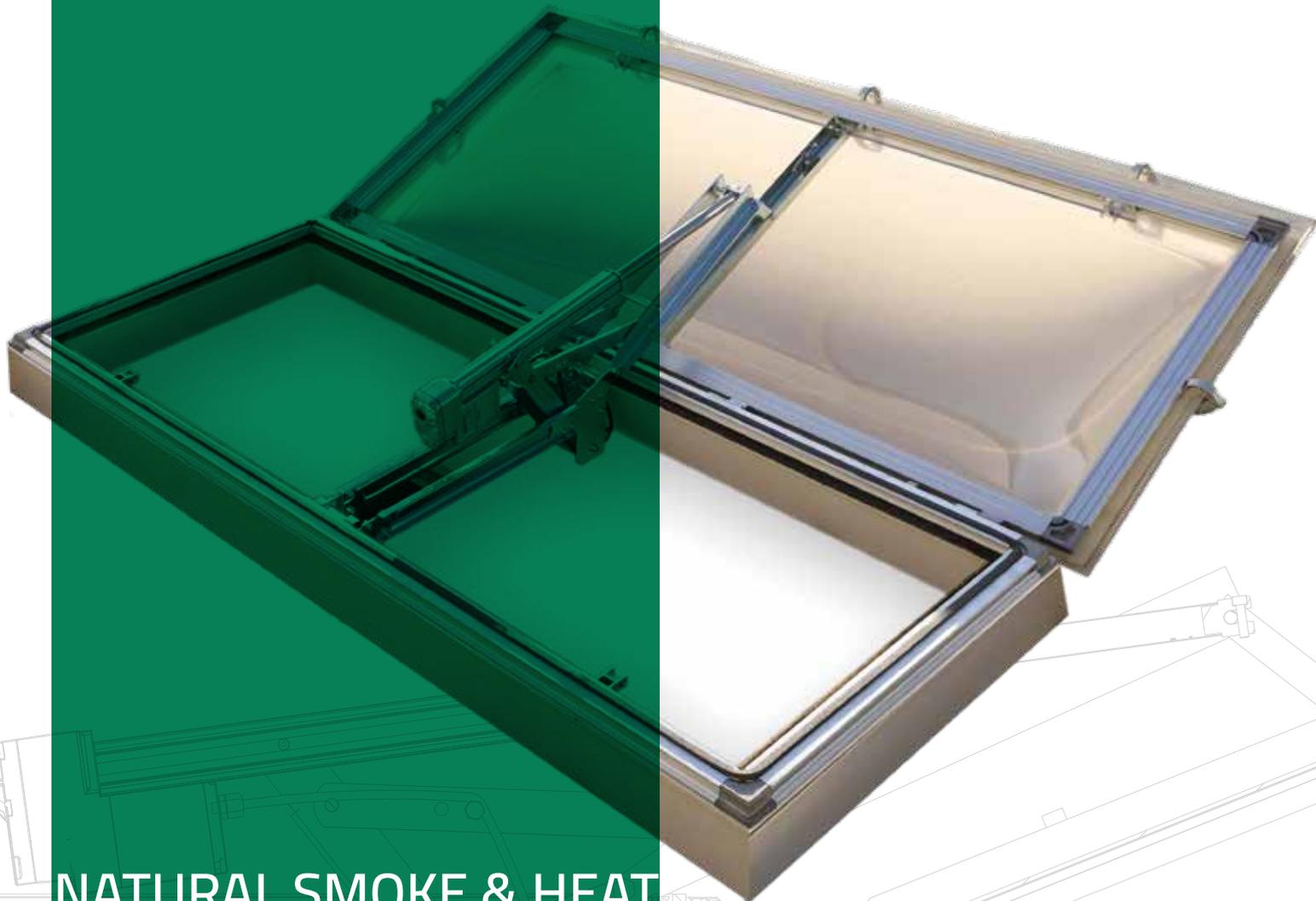




# CAODURO SMOKE ARIES®



NATURAL SMOKE & HEAT  
EXHAUST VENTILATORS



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## SMOKE ARIES® a design solution with countless advantages

SMOKE ARIES® device is the new zenithal NSHEV working fully electrically. Born from the evolution of the smoke and heat exhaust ventilator SMOKE OUT®, it completes the already wide range of NSHEVs that Caoduro Spa has been offering for over 30 years. Like the previous models, also SMOKE ARIES® is tested and certified according to the EN12101-2 standard both for the exhaust ventila-

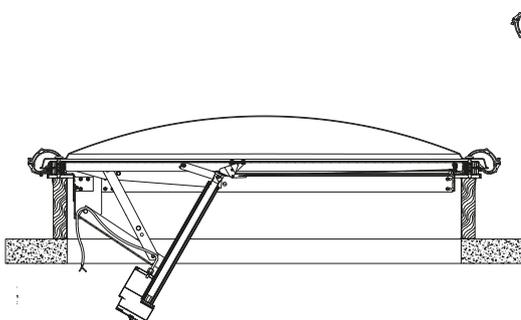
tion of smoke and heat and for daily ventilation needs (certified for 10,000 opening and closing cycles). SMOKE ARIES® is driven by a low voltage electrical actuator which makes it very versatile both in terms of use in fire emergency situations and for ordinary daily ventilation. Therefore the fields of use of these devices are multiple.

SMOKE ARIES® can be used as:

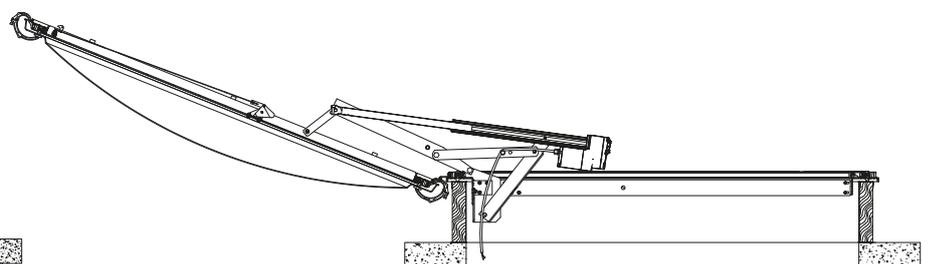
### NATURAL EXHAUST VENTILATOR

In compliance with EU Regulation 305/11  
CE marked according to EN 12101-2: 2003  
160 ° opening angle

Performance and classification requirements:  
Reliability: Re 300 Dual Purpose 10,000 cycles  
Opening under load: SL1000, SL500, SL250.  
Wind load: WL1500  
Heat resistance: B300



SMOKE ARIES® CLOSED



SMOKE ARIES® OPEN

# SMOKE ARIES®: THE ADVANTAGES

The strengths of the SMOKE ARIES® that distinguish it from all the others NSHEVs are:

## USE OF A SINGLE ELECTRICAL ACTUATOR FOR THE OPENING AND CLOSING

There will no longer be the need to use pneumatic devices, compressed gas cylinders or additional electrical motors dedicated to daily ventilation. Special safety hooks guarantee the adherence of the frame to the counter frame when the device is closed.



## AFTER AN EVENT THAT GENERATED THE OPENING OF THE DEVICES IN EMERGENCY, YOU SHOULD NO LONGER GET ON THE ROOF FOR MANUAL CLOSING

The reclosing is managed from the ground floor through external push button panel. This convenient and easy management offers a great advantage for all those cases where there are difficulties to reach the roof for the reclosing of the devices.

## REDUCTION OF MANAGEMENT COSTS DUE TO PERIODIC CHECKS

The periodic surveillance and controls are limited to opening and closing tests from the ground floor without having to replace components such as CO2 cylinders and thermosensitive elements. Constant surveillance of the system by the conductor of the activity represents a guarantee itself of the correct running of the devices.



## ABSENCE OF AUXILIARY THRUST DEVICES

(such as gas springs) which favor the thrust when opening the devices in case of opening under load (Classification SL1000, SL500, SL250) which may lose strength over the time.

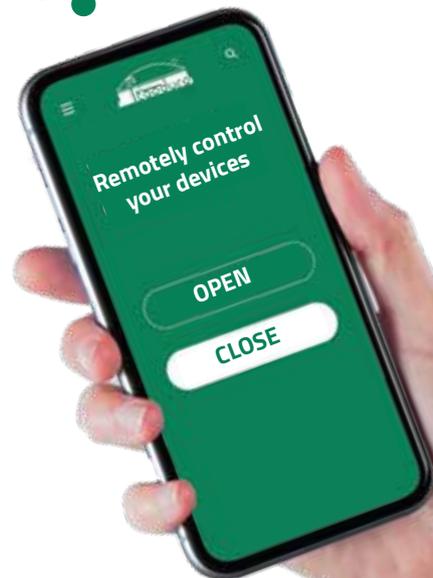
# SMOKE ARIES®: HOME AUTOMATION TECHNOLOGY

Very important the possibility of using the device for the daily ventilation of the premises. Mostly in this pandemic period becomes very important being able to sanitize the premises with repeated air changes. The management of this operation is demanded to a

dedicated electrical panel. As optional the home automation technology to manage from a smartphone or a PC the openings of the devices useful for sanitation of the environments and other features such as lines control and the status of the devices.



The devices are remotely controllable via application from smartphone, tablet and notebook.



# SMOKE ARIES®: THE ADVANTAGES

## Performance and classification requirements

Wind Load	WL 1500		
Reliability	Re 300		
Opening under load	SL 250	SL 500	SL 1000
Low ambient temperature	T(00)		
Heat resistance	B300		
Domes in PC	Euroclass B s1 d0		

### CONTROL BOX

The new devices are remotely controllable by the QE ARIES® control panel (connected to central detection system). Thanks to this panel it will be possible to manage from remote the emergency and daily ventilation openings.

### EMERGENCY OPENING

In addition to the emergency opening via the control box each device can be equipped with an optional thermosensitive sensor STE2. This one thanks to the thermosensitive element, which breaks to a setted temperature, ensures the opening of the devices connected to the electrical system.

### DAILY VENTILATION

The opening (running in less than 60 seconds as per EN 12101-2 standard) takes place by means of the activation of the powerful electrical actuator equipped with a maximum thrust of 10,000 Newton.

### MADE IN ITALY

The new NSHEV SMOKE ARIES® represents an innovation in the market. Fully designed and in-house manufactured in Italy (and therefore MADE IN ITALY) by Caoduro SpA, it represents an innovative, performing and lasting solution.



# SMOKE ARIES®: DIMENSIONS AND ABSORPTIONS

Rectangular monobloc domes

Clear span A (cm)	External support wall B (cm)	SL250 (A)	SL500 (A)	SL1000 (A)
80x120	93x133	2	2,6	4
80x180	93x193	2,4	3,3	5
80x220	93x233	2,4	3,3	5
80x250	93x263	2,7	3,7	5,6
85x205	98x218	2,4	3,3	5,1
90x170	103x183	2,7	3,3	5,1
90x200	103x213	2,9	4,1	6,5
90x220	103x233	2,9	4,1	6,5
90x240	103x253	3,1	4,5	7,5
90x250	103x263	3,1	4,5	7,5
95x155	108x168	2,7	3,3	5,1
100x120	113x133	2,7	3	5
100x150	113x163	2,7	3,3	5,1
100x200	113x213	2,9	4,1	6,5
100x220	113x233	3,1	4,5	7,5
100x250	113x263	3,3	4,7	7,8
120x170	133x183	3,4	4,8	7,1
120x200	133x213	3,7	5	8,5
120x220	133x233	3,7	5,4	8,9
120x250	133x263	4	5,9	10
125x250	138x263	4,1	6	/
140x250	153x263	5,3	8,6	/
150x250	163x263	6,3	9	/
160x250	173x263	6,5	9,6	/

Square monobloc domes

Clear span A (cm)	External support wall B (cm)	SL250 (A)	SL500 (A)	SL1000 (A)
80x80	93x93	1,6	2	2,9
95x95	108x108	2	2,6	4
100x100	113x113	2	2,6	4
120x120	133x133	2,7	3,7	6
125x125	138x138	3	4,2	6,5
140x140	153x153	4	5,4	8,7
150x150	163x163	4,5	6,4	/
155x155	168x168	4,5	6,4	/
170x170	183x183	7	/	/

# SMOKE ARIES®: DIMENSIONS AND ABSORPTIONS

Continuous skylight

Clear span A (cm)	SL250 (A)	SL500 (A)	SL1000 (A)
85x175	2,4	3,3	5
85x210	2,4	3,3	5,2
85x240	2,7	3,7	5,6
90x175	2,7	3,3	5,1
90x240	3,1	4,5	7,5
95x175	2,8	3,6	5,7
95x240	3,2	4,6	7,6
100x175	2,7	3,7	5,8
100x210	3,1	4,5	7,5
100x240	3,3	4,7	7,8
105x175	2,9	4,1	6,5
110x175	3,3	4,7	7
110x240	3,7	5,6	9,7
120x175	3,5	4,9	7,2
120x210	3,6	5,1	8,6
120x240	3,9	5,8	9,9
125x175	3,7	5	8,3
125x240	4	5,9	/
135x175	4,5	6,4	/
135x240	5,2	8,5	/
140x175	4,4	6,7	/
140x240	5,2	8,5	/
150x175	5	7	/
150x210	6	8,7	/
150x240	6,2	8,9	/
165x175	6,3	9	/
165x210	6,5	9,5	/
165x240	6,7	9,8	/
200x120	7,5	/	/

## SMOKE ARIES® IN ACTION

Scan the QR codes below and see the SMOKE ARIES® device in action.



Smoke exhaust test



Load test



SMOKE AND HEAT VENTILATION



SMOKE AND FIRE CURTAINS



ZENITHAL LIGHTING



SMOKE AND HEAT DISPOSAL

# CAODURO SYSTEM

## MAXIMUM EFFICIENCY EVEN AFTER YEARS

We manufacture domes, skylights, ribbed structures, upstands, natural ventilation devices, control boxes, smoke and heat control systems, smoke and fire curtains, natural and powered exhaust ventilation systems.



DOMES



SKYLIGHTS



RIBBED STRUCTURES



UPSTANDS



NHSEVS



CONTROL BOX



PSHEVS



SMOKE CURTAINS



FIRE CURTAINS



DAILY VENTILATION



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