SE

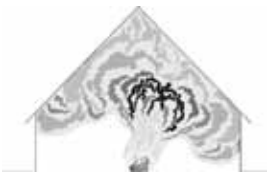
Smoke and Heat Evacuation

REYNAERS
aluminium

From the start, Reynaers has put a lot of effort in the development of sustainable aluminium solutions for the building industry. During the last couple of years the need for safety solutions has grown with our customers. To support this demand, Reynaers already developed fireproof windows and doors up to 30 min. and 60 min. of fire-resistance. To further elaborate its product offering, Reynaers has collaborated with D+H Mechatronic AG, one of the market leaders in the production and distribution of certified accessories for ventilation in the building industry, to create the Reynaers -SE range, one of the most complete solutions within the field of natural smoke and heat exhaust ventilators (NSHEV)* in the industry. The solution is compatible with most windows and façade systems of Reynaers.

When fire breaks out inside the building, smoke and heat pile up. This causes difficulties in finding an escape route and for firemen to rescue possible victims trapped inside the building. Furthermore, the heat in the building rises rapidly which results in a higher collapse risk and causing disruptive damage to the building. The -SE solution of automatic smoke detection and smoke control consists of a range of operating devices. The system is activated when the alarm goes off, enabling the heat and smoke to be discharged creating better escape routes and thus saving lives and protecting the building structure.

** according to EN 12101-2*

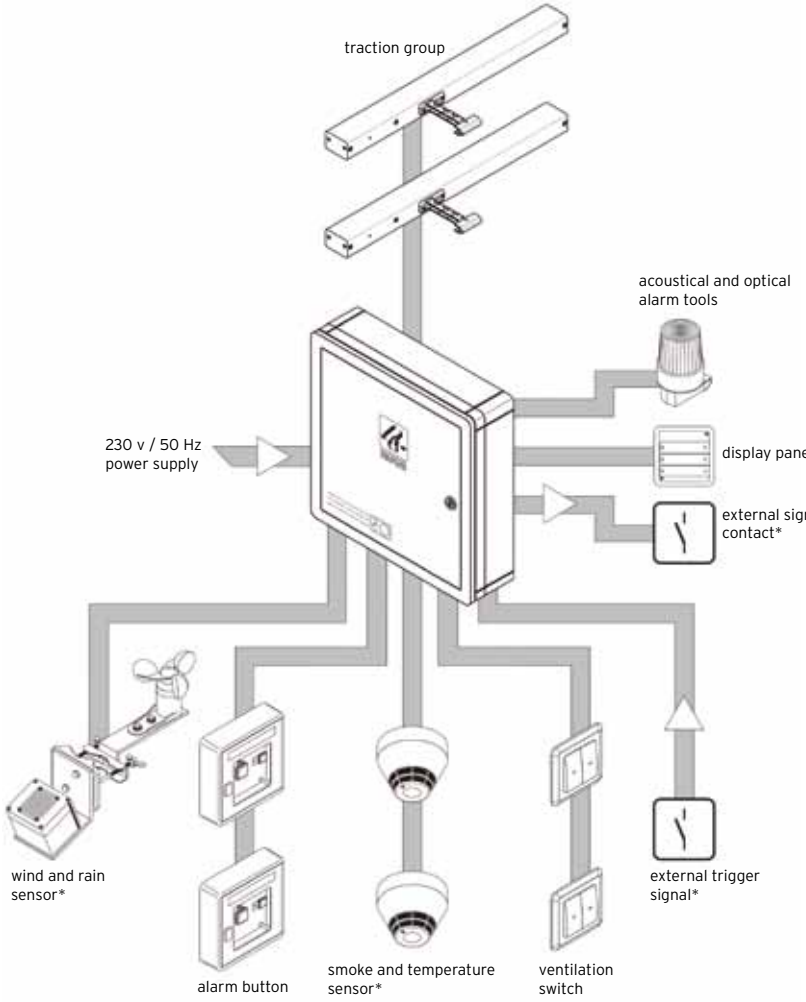


Smoke and heat pile up

Smoke and heat can escape

OPERATING DEVICES

An example :



*optional extentions possible

TECHNICAL CHARACTERISTICS:

		Eco system	CS 59	CS 68	CS 77	CS 86-HI	CW 50
Turn	In	•	•	•	•	•	
Top hung	In	•	•	•	•	•	
Top hung	Out	•	•	•	•		•
Bottom hung	In	•	•	•	•	•	
Bottom hung	Out	•	•	•	•		
Hidden Vent	Turn		•	•	•	•	
Hidden Vent	Top hung		•	•	•	•	
Hidden Vent	Bottom hung		•	•	•	•	
Attic Window	Out						•
POW	Out						•
Chain drive		•	•	•	•	•	•
Rack and Pinion drive		•	•	•	•	•	•
Maximal vent height		2200 mm **	2250 mm **	2400 mm **	2400 mm **	2400 mm **	2500 mm **
Maximal vent width		1600 mm **	1400 mm **	1700 mm **	1700 mm **	1700 mm **	2000 mm **
Maximal weight		90 Kg	130 Kg	130 Kg	130 Kg	130 Kg	180 Kg
Thermal insulation		Up to 2,25 W/m²K *	Up to 3,0 W/m²K *	Up to 2,4 W/m²K *	Up to 1,9 W/m²K *	Up to 1,47 W/m²K *	Up to 4,60 W/m²K *
Air permeability		Up to 600 Pa (class 4)	Up to 600 Pa (class 4)	Up to 600 Pa (class 4)	Up to 600 Pa (class 4)	Up to 600 Pa (class 4)	Up to 600 Pa (class 4)
Water tightness		Up to 750 Pa (class E750)	Up to 750 Pa (class E750)	Up to 1200 Pa (class E1200)	Up to 900 Pa (class E900)	Up to 900 Pa (class E900)	Up to 1200 Pa (class RE1200)
Wind load resistance		Up to 1200 Pa (class 3)	Up to 2000 Pa (class 5)	Up to 2000 Pa (class 5)	Up to 2000 Pa (class 5)	Up to 2000 Pa (class 5)	Up to 2000 Pa (class 5)
Heat resistance		B 300	B 300	B 300	B 300	B 300	B 300
Low temperature		-15 °C	-15 °C	-15 °C	-15 °C	-15 °C	-15 °C
Reliability		RE 1000	RE 1000	RE 1000	RE 1000	RE 1000	RE 300

* Depending on the frame and vent combination
** Depending on the width/height, profile choice and the opening type

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