THERM 75 – SMOKE WINDOW
SERRAMENTO PER SMALTIMENTO DEI FUMI A FINESTRA

DESCRIZIONE

Tipi di finestre per l'evacuazione e la ventilazione dei fumi:

- apertura a sporgere verso l'esterno
- apertura a sporgere verso l'interno
- apertura a vasistas verso l'esterno
- apertura a vasistas verso l'interno

Dispositivi di **evacuazione, ventilazione e immissione d'aria** montati su partizioni verticali (pareti, chiusure, ecc.)

possono essere integrati nei sistemi di facciata a montanti e travi disponibili sul mercato

Ampia gamma di dimensioni delle finestre:

- installazione verticale: (L x A) 80 x 80 cm ÷ 160 x 220 cm
- installazione orizzontale: (L x A) 80 x 80 cm ÷ 270 x 130 cm

Angolo di apertura della finestra: 10° ÷ 90°

Ampia scelta di colori RAL e rivestimento decorativo effetto legno

Classificazione secondo il Certificato di Costanza della Prestazione (secondo EN 12101-2)

Re1000 - affidabilità operativa per 1000 cicli di apertura e chiusura in posizione di espulsione fumi e 10.000 cicli in posizione di ventilazione (finestra a doppia funzione)

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» **WL1000 / WL1250 / WL1500** - sicurezza operativa della finestra sotto carico del vento equivalente a 1100 Pa, 1200 Pa o 1500 Pa (a seconda del tipo, delle dimensioni e degli accessori),

» **T(00)** - resistenza delle finestre a basse temperature 0 °C

» **B300** - resistenza delle finestre ad alte temperature 300 °C

» **SL0** - sicurezza operativa delle aperture sotto carico neve 0 N/m²

DESIGN

Finestra con profili in alluminio multicamera

Sistema di scanalature per anta e telaio con profilo di copertura,per una facile installazione di cavi e attuatori

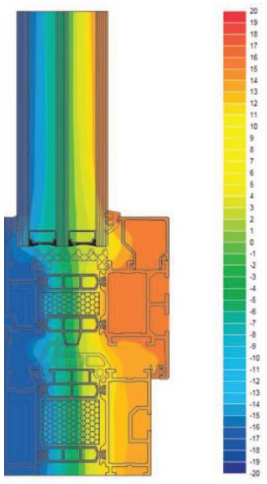
- Triplo vetro
- Doppio vetro
- Pannello sandwich in alluminio
- Sistema di controllo

Evacuazione fumi, ventilazione, aerazione:

Elettrico 24 V- / 48 V- (attuatore: albero G / S, catena HCV),

Elettrico 230 V~ (attuatore a catena HCVA).

80 [cm] x 80 [cm]	Min. nominal size
270 [cm] x 130 [cm]	Max. nominal size – horizontal arrangement W x H
170 [cm] x 200 [cm]	Max. nominal size – vertical arrangement W x H
SL0	Snowload class
WL 1000 + WL 1500	Wind load class
B300	High temperature resistance class
Re1000	Reliability – smoke extraction
Re_w 10000	Reliability – ventilation
60[s]	Low ambient temperature class
10° ÷ 90°	Vent opening angle



U_{rc}=0.9 W/m²K

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Serramento con attuatore a pistone

BxH [cm x cm]	Outward opening window						Inward opening window					
	30°		60°		90°		30°		60°		90°	
	Aa [m²]	spindle actuator mcr S / **G**	Aa [m²]	spindle actuator mcr S / **G**	Aa [m²]	spindle actuator mcr S / **G**	Aa [m²]	spindle actuator mcr S / **G**	Aa [m²]	spindle actuator mcr S / **G**	Aa [m²]	spindle actuator mcr S / **G**
80 x 80	0.17	2 x 0.8 A	0.26	2 x 0.8 A	0.29	2 x 1.0 A	0.20	2 x 0.8 A	0.29	2 x 0.8 A	0.32	2 x 1.0 A
100 x 100	0.30	2 x 0.8 A	0.44	2 x 1.0 A	**0.50**	**2 x 2.6 A**	0.34	2 x 0.8 A	0.48	2 x 1.0 A	0.54	2 x 1.0 A
100 x 120	0.40	2 x 0.8 A	0.55	2 x 1.0 A	**0.61**	**2 x 2.6 A**	0.43	2 x 0.8 A	0.60	2 x 1.0 A	**0.66**	**2 x 2.6 A**
120 x 150	0.66	2 x 0.8 A	0.88	2 x 1.0 A	**0.96**	**2 x 2.6 A**	0.70	2 x 0.8 A	0.96	2 x 1.0 A	**1.05**	**2 x 2.6 A**
130 x 80	0.29	2 x 0.8 A	0.44	2 x 0.8 A	0.51	2 x 1.0 A	0.33	2 x 0.8 A	0.48	2 x 0.8 A	0.54	2 x 1.0 A
150 x 150	0.83	2 x 0.8 A	1.12	2 x 1.0 A	**1.23**	**2 x 2.6 A**	0.87	2 x 0.8 A	1.22	2 x 1.0 A	**1.32**	**2 x 2.6 A**
160 x 170	1.06	2 x 1.0 A	**1.39**	**2 x 2.6 A**	**1.51**	**2 x 2.6 A***	1.12	2 x 1.0 A	**1.52**	**2 x 2.6 A**	**1.64**	**2 x 2.6 A***
160 x 180	1.15	2 x 1.0 A	**1.50**	**2 x 2.6 A***	**1.61**	**2 x 2.6 A***	1.21	2 x 1.0 A	**1.61**	**2 x 2.6 A***	**1.76**	**2 x 4.0 A***
190 x 110	0.67	2 x 0.8 A	0.98	2 x 1.0 A	**1.12**	**2 x 2.6 A**	0.73	2 x 0.8 A	1.07	2 x 0.8 A	**1.17**	**2 x 2.6 A**
200 x 170	1.30	2 x 1.0 A	**1.75**	**2 x 2.6 A***	**1.92**	**2 x 2.6 A***	1.38	2 x 1.0 A*	**1.90**	**2 x 2.6 A***	**2.08**	**2 x 2.6 A***
230 x 80	0.52	2 x 0.8 A	0.82	2 x 0.8 A*	**0.95**	**2 x 2.6 A***	0.59	2 x 0.8 A*	0.88	2 x 0.8 A*	0.99	2 x 1.0 A*
230 x 150	1.24	2 x 0.8 A	**1.74**	**2 x 2.6 A***	**1.95**	**2 x 2.6 A***	1.31	2 x 0.8 A*	**1.86**	**2 x 2.6 A***	**2.04**	**2 x 2.6 A***
270 x 130	1.18	2 x 1.0 A	**1.73**	**2 x 2.6 A***	**1.97**	**2 x 2.6 A***	1.27	2 x 0.8 A*	**1.85**	**2 x 2.6 A***	**2.04**	**2 x 2.6 A***

mcr S / **G** – **bolded values indicate parameters of actuator mcr G**

* due to the size of the window and the opening angle it is necessary to use an electromagnetic lock

Serramento con attuatore a catena

BxH [cm x cm]	Outward opening window				Inward opening window			
	Aa [m²]	chain actuator* HCV	opening angle [°]	power consumption for 24 V- / 48 V-	Aa [m²]	chain actuator* HCV	opening angle [°]	power consumption for 24 V- / 48 V-
80 x 80	0,17	HCV500/350	29	1,4 / 0,7	0,18	HCV500/350	27	1.4 / 0.7
100 x 100	0.36 / **0.25**	HCV500/600 / **HCV500/350**	39 / **22**		0.25	HCV500/350	21	
100 x 120	0.45 / **0.31**	HCV500/600 / **HCV500/350**	13 / **28**		0.43 / **0.28**	HCV500/600 / **HCV500/350**	30 / **17**	
120 x 150	0.59 / **0.38**	HCV500/600 / **HCV500/350**	25 / **14**		0.60 / **0.39**	HCV500/600 / **HCV500/350**	24 / 14	
130 x 80	0.41 / **0.27**	HCV500/600 / **HCV500/350**	51 / **29**		0.30	HCV500/350	27	
150 x 150	0.73 / **0.47**	HCV500/600 / **HCV500/350**	25 / **14**		0.73 / **0.47**	HCV500/600 / **HCV500/350**	24 / **14**	
160 x 170	0.87 / **0.55**	HCV500/600 / **HCV500/350**	22 / **12**		0.86 / **0.55**	HCV500/600 / **HCV500/350**	21 / **12**	
160 x 180	0.92 / **0.58**	HCV500/600 / **HCV500/350**	20 / **12**		0.90 / **0.58**	HCV500/600 / **HCV500/350**	20 / **11**	
190 x 110	0.74 / **0.50**	HCV500/600 / **HCV500/350**	35 / **20**	2x 1.4 / 2x 0.7	0.78 / 0.48	HCV500/600 / **HCV500/350**	33 / **19**	2x 1.4 / 2x 0.7
200 x 170	1.07 / **0.66**	HCV500/600 / **HCV500/350**	22 / **12**		1.06 / **0.67**	HCV500/600 / **HCV500/350**	21 / **12**	
230 x 80	0.74 / **0.50**	HCV500/600 / **HCV500/350**	51 / **29**		0.54	HCV500/350	27	
230 x 150	1.08 / **0.67**	HCV500/600 / **HCV500/350**	25 / **14**		1.11 / **0.69**	HCV500/600 / **HCV500/350**	24 / **14**	
270 x 130	1.58 / **1.40**	HCV500/1000 / **HCV500/800**	49 / **39**		1.19 / **0.74**	HCV500/350	28 / 16	

Bolded values indicate parameters of actuator HCV500/350

* HCV 500/xxx actuators can be powered with 24 V- or 48 V-. Possibility of using the HCVA 500/xxx actuator with a voltage of 230 V~ and a current consumption of 0.13 A as an equivalent to any given HCV 500/xxx actuator.

B x H [cm x cm]	U_{rc} [W/m²K] Outward opening windows	U_{rc} [W/m²K] Inward opening windows
150 x 150	0.9	0.9
160 x 170	0.9	0.9
160 x 180	0.9	0.9
200 x 170	0.9	0.9
230 x 150	0.9	0.9
270 x 130	0.9	0.9

** U_{rc} thermal transmittance coefficient for the entire window, determined for two-chamber glass units 4/18/4/18/33.1.

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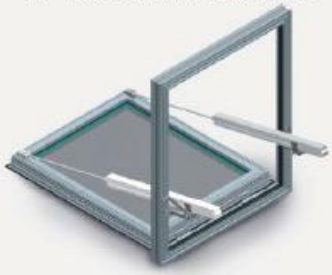
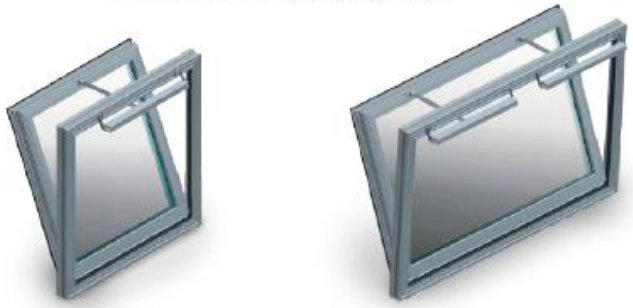
TOP HUNG OPENING OUTWARD

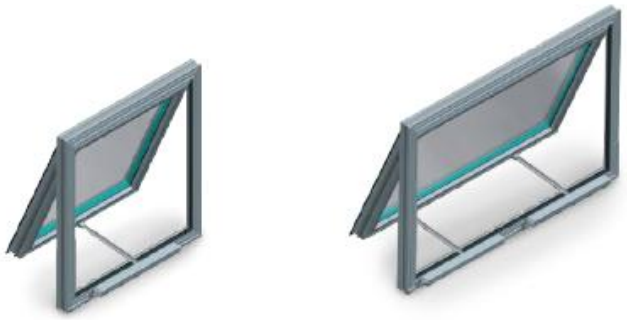


BOTTOM HUNG OPENING OUTWARD

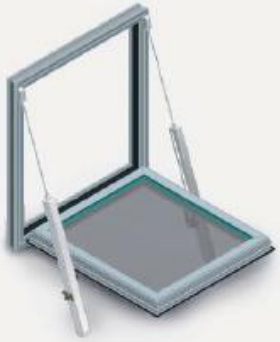


BOTTOM HUNG OPENING OUTWARD

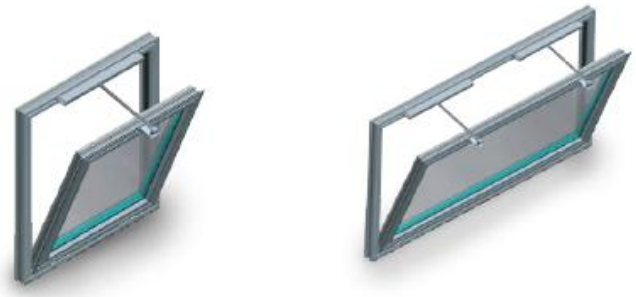
TOP HUNG OPENING OUTWARD



BOTTOM HUNG OPENING INWARD



BOTTOM HUNG OPENING INWARD



TOP HUNG OPENING INWARD

TOP HUNG OPENING INWARD