

FC-BRL-HP(S) Blast Louver

VER 2025C

[Product Introduction]

FC-BRL-HP(S) blast resistant louver are developed for those applications where the blast louver is expected to withstand the blast wave and hold its structure in place, in order to protect personnel and assets inside buildings. The capacity of blast-resistance could be customized upon specific project design.

[Product Features]

- ✓ Able to withstand multiple blast impacts.
- ✓ Able to hold all components of the louver assembly in place during and after the blast hits.
- ✓ Customization service offered regarding product size, coating, accessories, etc.

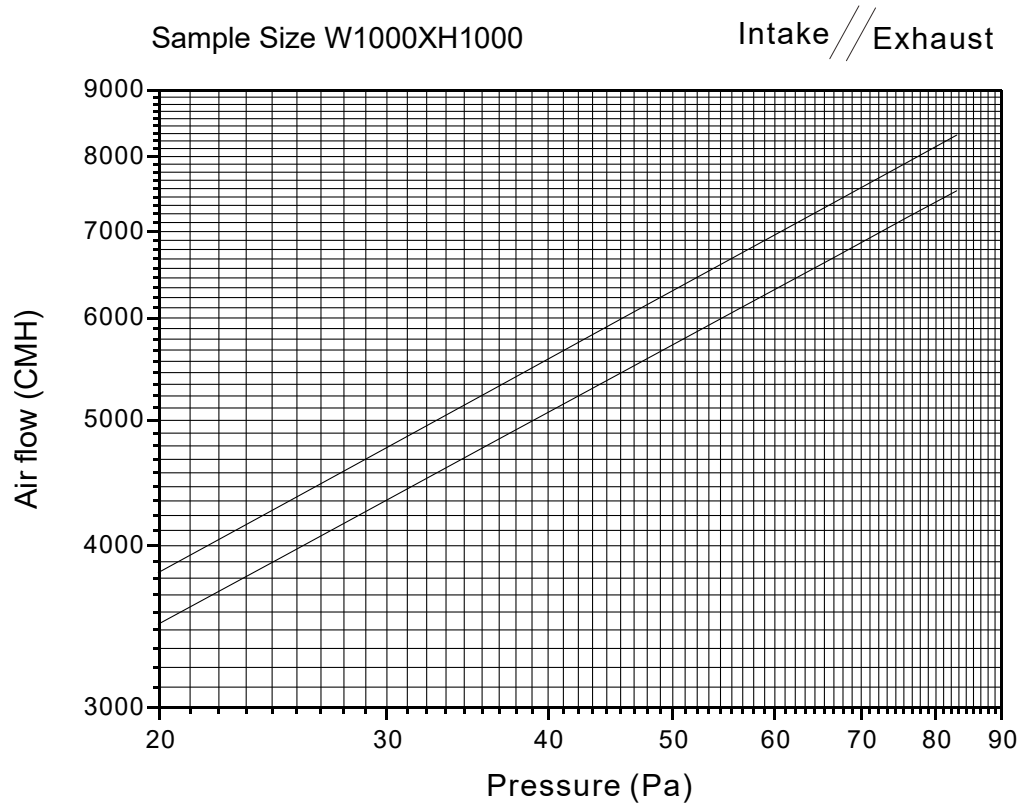
**[Part Number]**

ATO PN: FCBRLHP(S)-[A]-[B]-[C]-[D]-[E]

A	B	C	D	E
Frame Material	Blade Material	Mounting Type	Width (mm)	Height (mm)
1 - SS 316L	1 - SS 316L	IW - In the wall	0300	0300
2 - SS 304L	2 - SS 304L	OW - Wall Surface mounted	0500	0500
3 - HGS	3 - Aluminum		0700	0700
4 - Coated steel	4 - HGS		1000	1000
	5 - Coated steel		1200	1200
			1500	1500
			...	...

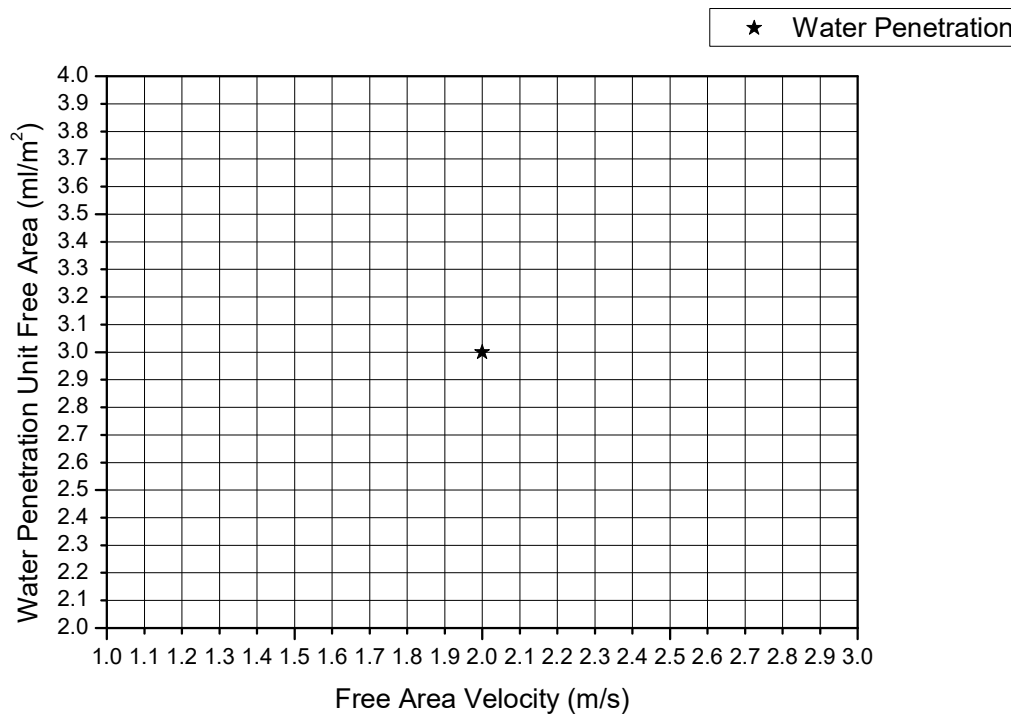
Please contact FUCARE for customized damper size.

[Air flow rate]



Average free area ratio: 35%

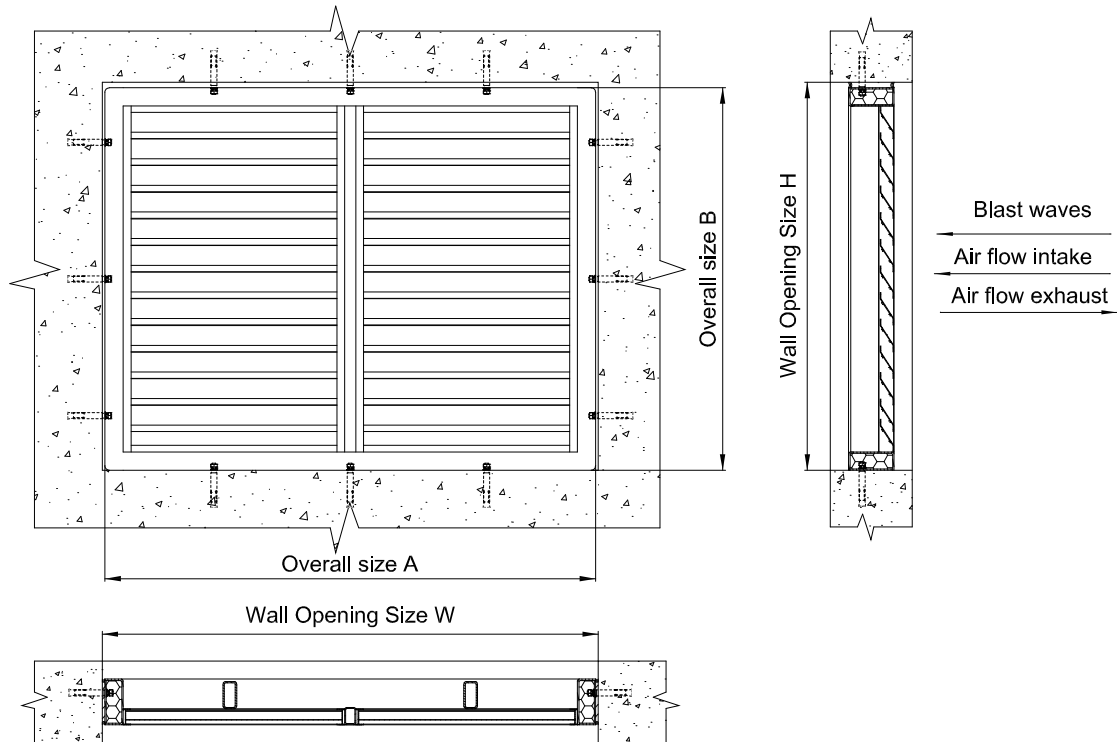
[Weather-proof Performance]



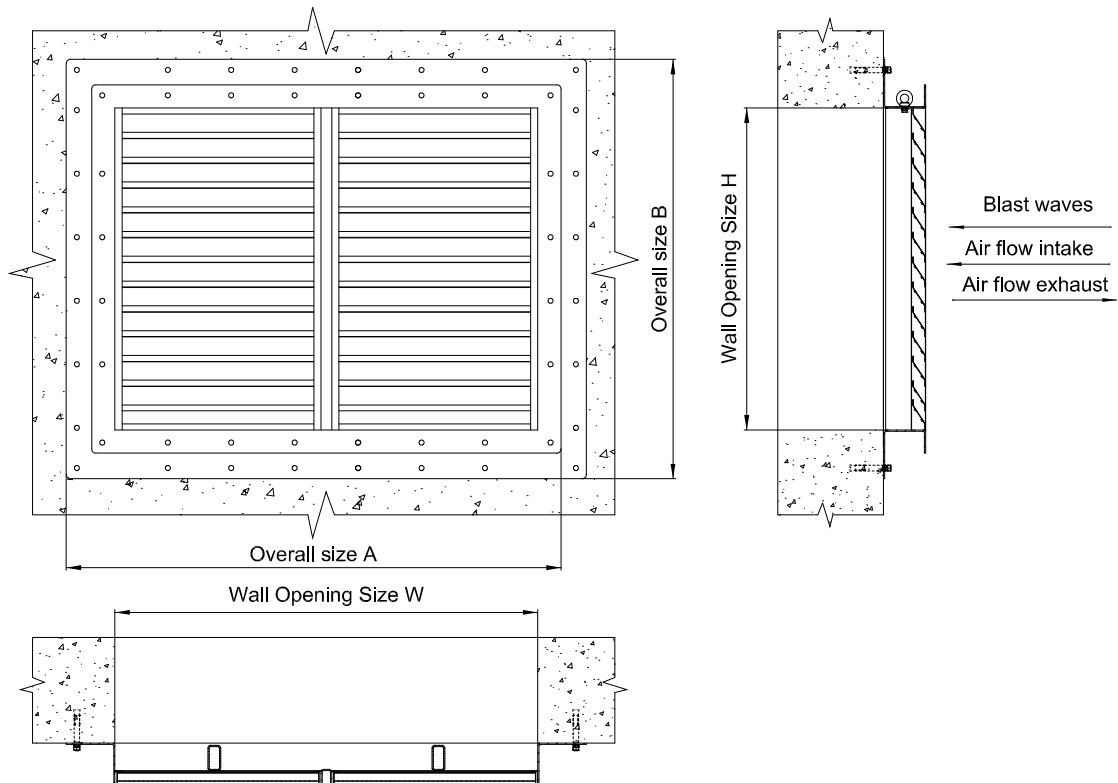
The beginning point of water penetration is 2 m/s free area velocity by reference standard AMCA 500-L. Sample size is 1200x1200 (mm).

[Mounting Type]

i. FC-BRL-HP(S)-IW, In the wall



ii. FC-BRL-HP(S)-OW Wall Surface Mounted



For more information, please contact FUCARE.

[Air flow test results and derived data]

Pressure	Air flow intake			C _D	
Pressure loss p _s Pa	Flow rate q _v m ³ /s	Core velocity q _v /A m/s	Flow rate squared q _v ² (m ³ /s) ²	Value	Variance from mean %
16	0.93	1.08	0.86	0.24	-6.8
25	1.21	1.4	1.46	0.25	-2.5
36	1.48	1.71	2.19	0.26	1.4
46	1.66	1.92	2.76	0.25	-2.5
56	1.85	2.14	3.42	0.26	1.4
67	2.06	2.39	4.24	0.26	1.4
76	2.23	2.58	4.97	0.27	5.1
83	2.28	2.64	5.2	0.26	1.4
Mean C _D = 0.25625					

A : Louvre core area / area of the hole in calibration plate.

C_D: Discharge Loss Coefficient.

p_s : Static gauge pressure.

q_v : Volume flow rate of air at the flow meter.