

RAPID BLAST DAMPERS FC-BRV-02

**Blocking almost 100%
impulse energy**

**Closed in only
milliseconds**

PATENTED

**Multiple sizes for
various flow
demands**



**Proved by multiple
international
laboratories**

**Standing peak pressure up to
200KPa reflected**

**ATEX Certified for Zone 1 & 2,
Zone 21 & 22**



FC-BRV-02 rapid blast dampers are specifically developed for those applications where high air flow rate and blast protection are required. It could stand the overpressure up to 200KPa reflected with long duration and shut off in milliseconds. It also could stand multiple blast impacts and maintain full functions after blasts.

FC-BRV-02 rapid blast dampers could serve wide range applications, including civil defense, OGP, nuclear power, chemical, etc.

With FuCare Comes Safety

[Product features and benefits]

> Standing strong blast impulse

Being able to stand multiple blast impacts and maintain all functions after blasts.

> Unparalleled rapid response

Being able to completely close within 8ms under 200KPa peak pressure reflected, which assures the safety by minimizing the passing through impulse.

> High ventilation volume

High air flow based on normal open position. A 500*500 blast damper could provide flow rate up to 3800 m³/h at pressure differential 100Pa.

> High corrosion resistant performance

Being made of chemical-resistant materials and fit for all corrosive conditions.

> ATEX certified

Safely work in explosive atmospheres.


[Part Numbers]

ATO PN: FCBRV02-[A]-[B]-[C]-[D]-[E]

A	B	C	D	E
Model	Installation	Material of damper	Width (mm)	Height (mm)
S - Standard version (Auto-reset)	IW - In the wall	1-Stainless Steel 316	0200	0200
E - Enhanced version (Auto-reset)	OW - On the wall	2-Stainless Steel 304	0300	0300
S(M) - Standard version (Manual-reset)	D - Duct connected	3-Hot galvanized steel	0500	0500
E(M) - Enhanced (Manual-reset)		4-Epoxy/PU coated steel (Non-ATEX certified)	0600	0600
			0700	0700
			0800	0800
			0900	0900
			1000	1000
			1200	1200
			1500	1500

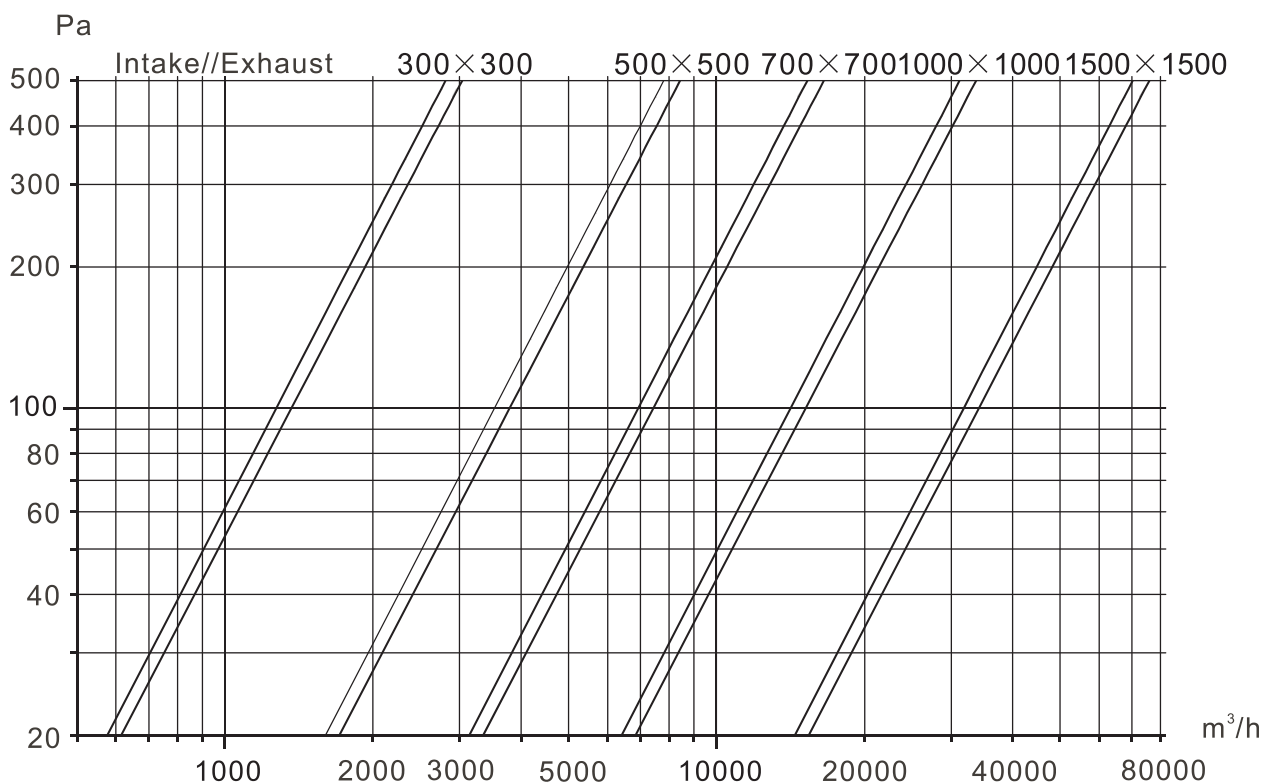
For other customized configurations, please contact FUCARE or its distributors.

[Product specifications]

Designed peak pressure	200KPa Reflected
Designed blast duration	20ms
Closing time	<8ms (200KPa reflected)
Blast impulse block rate	98.5% (200KPa reflected)
Operating temperature	-30°C to 285°C
Certifications	Product is type tested by AMCA (US) , UKERT (US) , TUV (Germany)
ATEX Type	Certification No. : TÜV 15 ATEX 7741 X Based on standards EN ISO 80079-36:2016, EN ISO 80079-37:2016 under ATEX directive 2014/34/EU  II2G Ex h IIC T6...T2 Gb II2D Ex h IIC T70°C...T285°C Db

For more information, please contact FuCare.

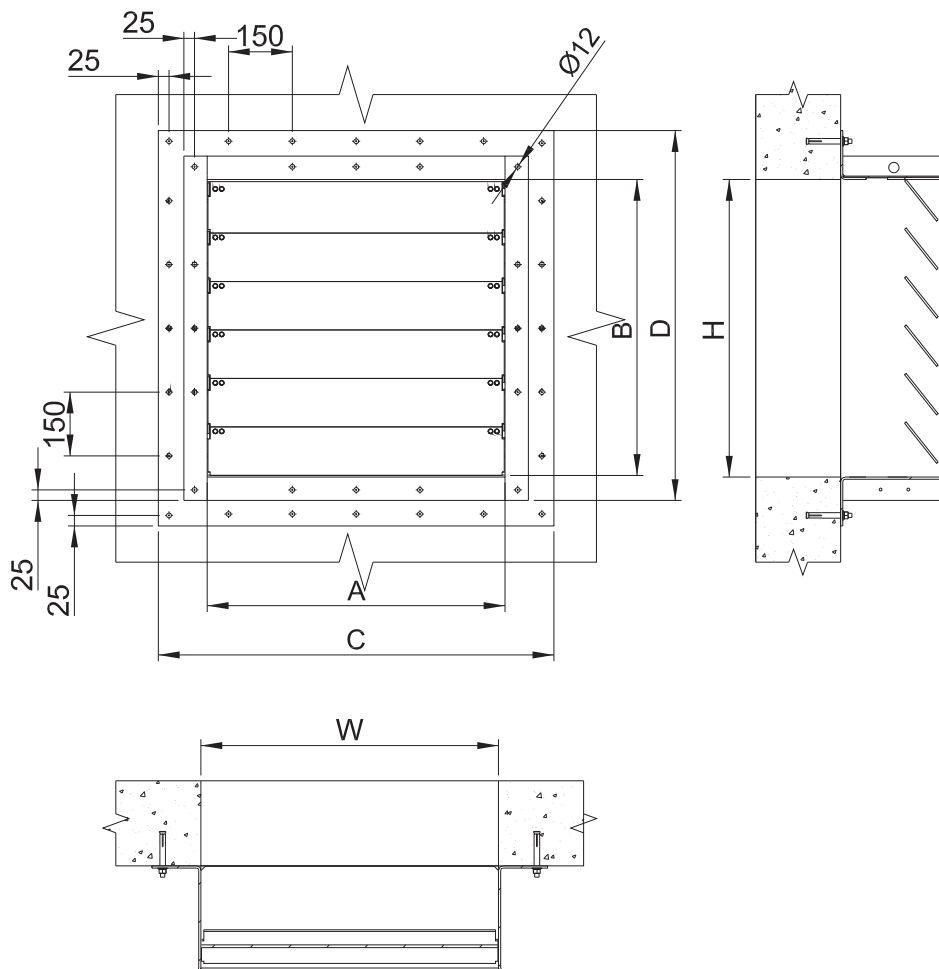
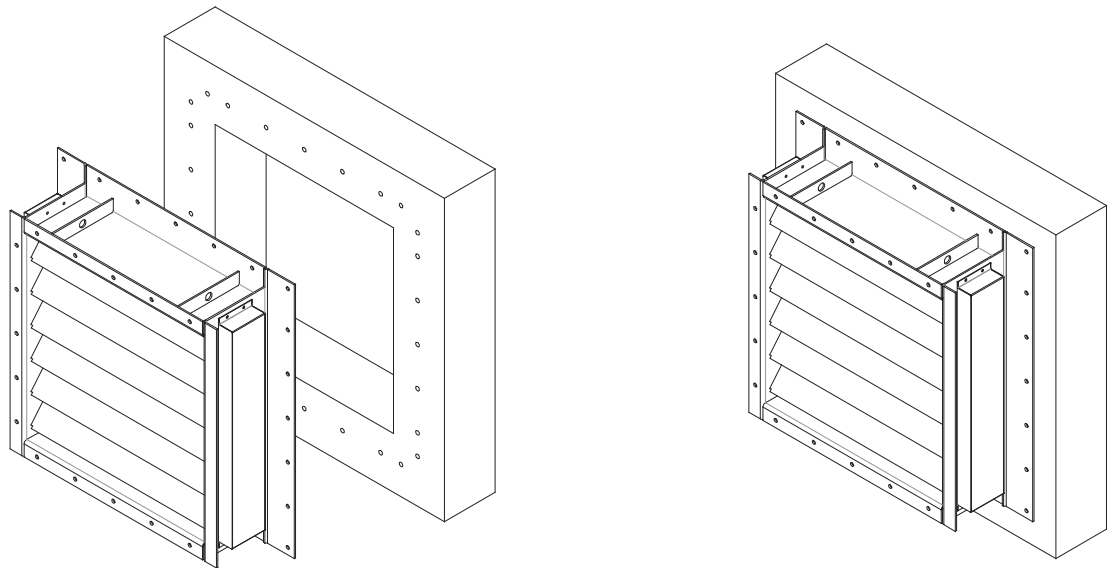
[Air Flow vs Pressure drop]



*Online calculator is available.

[Installation types and sizes]

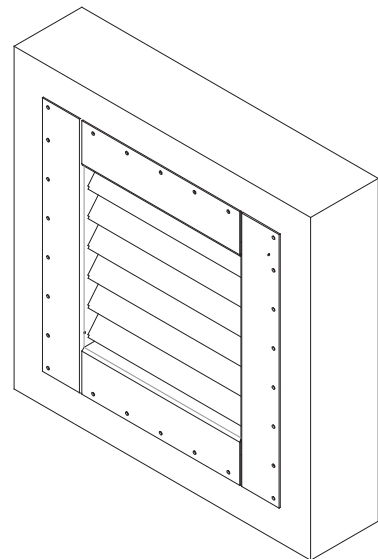
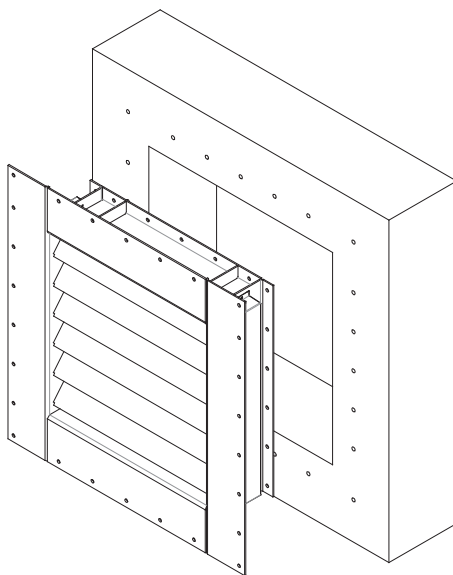
- i. Mounted on the wall surface (Type FC-BRV-02-OW)

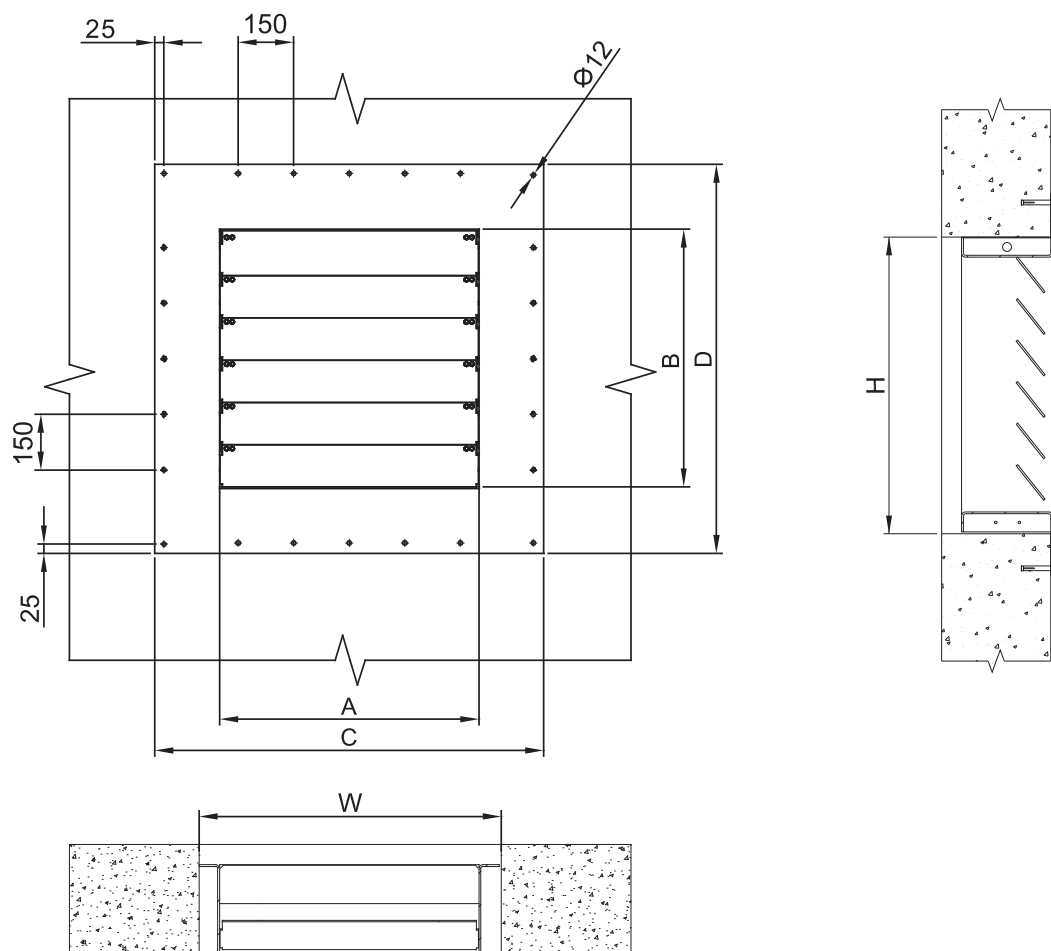


Model	A (mm)	B (mm)	C (mm)	D (mm)	W (mm)	H (mm)	Total weight (kg)
FC-BRV-02-S-OW-300	300	300	530	530	300	300	35
FC-BRV-02-S-OW-400	400	400	630	630	400	400	49
FC-BRV-02-S-OW-500	500	500	730	730	500	500	79
FC-BRV-02-S-OW-700	700	700	930	930	700	700	135
FC-BRV-02-S-OW-900	900	900	1,130	1,130	900	900	231
FC-BRV-02-S-OW-1000	1,000	1,000	1,230	1,230	1,000	1,000	278
FC-BRV-02-S-OW-1200	1,200	1,200	1,430	1,430	1,200	1,200	429
FC-BRV-02-S-OW-1500	1,500	1,500	1,730	1,730	1,500	1,500	723

For other size , please contact FUCARE.

ii. Mounted in the wall (Type FC-BRV-02-IW)

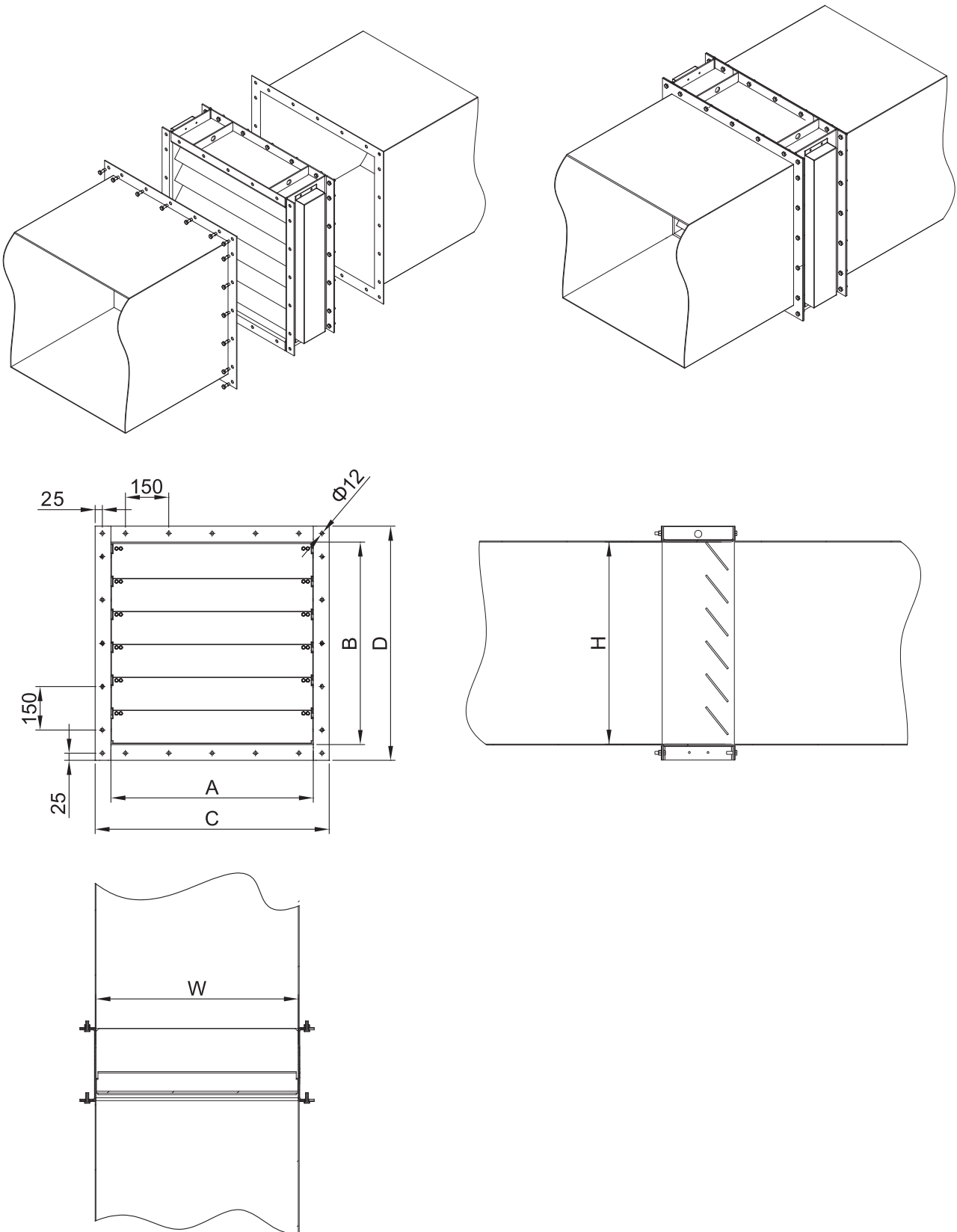




Model	A (mm)	B (mm)	C (mm)	D (mm)	W (mm)	H (mm)	Total weight (kg)
FC-BRV-02-S-IW-300	300	300	650	650	420	420	36
FC-BRV-02-S-IW-400	400	400	750	750	520	520	50
FC-BRV-02-S-IW-500	500	500	850	850	620	620	81
FC-BRV-02-S-IW-700	700	700	1,050	1,050	820	820	138
FC-BRV-02-S-IW-900	900	900	1,250	1,250	1,020	1,020	235
FC-BRV-02-S-IW-1000	1,000	1,000	1,350	1,350	1,120	1,120	285
FC-BRV-02-S-IW-1200	1,200	1,200	1,550	1,550	1,320	1,320	439
FC-BRV-02-S-IW-1500	1,500	1,500	1,850	1,850	1,620	1,620	738

For other size , please contact FUCARE.

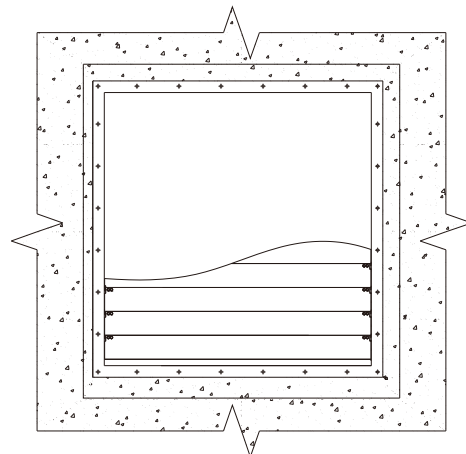
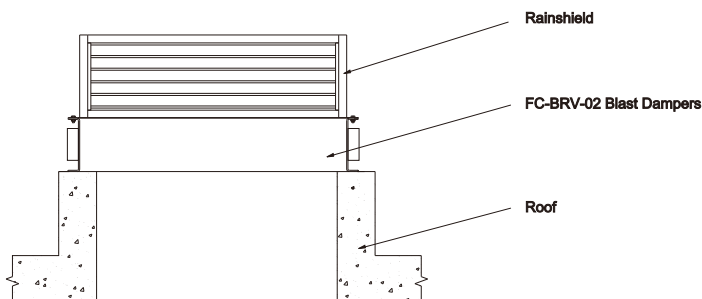
iii. Duct connected (Type FC-BRV-02-D)



Model	A (mm)	B (mm)	C (mm)	D (mm)	W (mm)	H (mm)	Total weight (kg)
FC-BRV-02-S-D-300	300	300	410	410	300	300	33
FC-BRV-02-S-D-400	400	400	510	510	400	400	47
FC-BRV-02-S-D-500	500	500	610	610	500	500	75
FC-BRV-02-S-D-700	700	700	810	810	700	700	129
FC-BRV-02-S-D-900	900	900	1,010	1,010	900	900	220
FC-BRV-02-S-D-1000	1,000	1,000	1,110	1,110	1,000	1,000	265
FC-BRV-02-S-D-1200	1,200	1,200	1,310	1,310	1,200	1,200	409
FC-BRV-02-S-D-1500	1,500	1,500	1,610	1,610	1,500	1,500	689

For other size , please contact FUCARE.

iv. Roof mounting (Type FC-BRV-02-OW)



Please contact FUCARE distributor or FUCARE sales representatives for more information.

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