



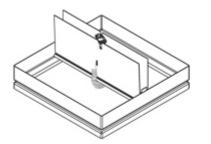


GMC BDD-042 PRODUCT SPECIFICATIONS:

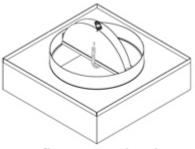
• Chasis and blades are made of galvanised steel sheet or aluminum profile.

- Back Draft damper is designed to prevent back-flow when fan motor is off and to open when fan motor is on. Provides one-way flow in ducting system.
- when fan motor is on. Provides one-way now in ducting system.
- Has two models: Standart Model (BDD-142) and Circular Model (BDD-242).
- Reduces the heat loss and prevents ingress of dust, rain, insect and bird when system is off.
- Optional: Flow rate Pressure settings can be done with balance load.

• Provides fast response against extreme pressure changes in the ducting system by opening blades.



Butterfly Type - Rectangular



Butterfly Type - Circular

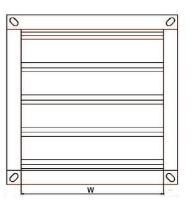


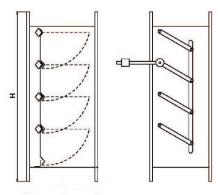
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BACK DRAFT DAMPERS

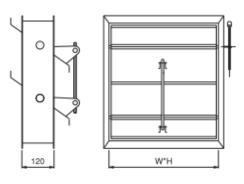
TECHNICAL DETAILS





BDD-142

Stepped air volume settings cannot be done by Back Draft Damper mechanisms. Blade positions are comparative with flowing air volume. If there is none, blades are closed.

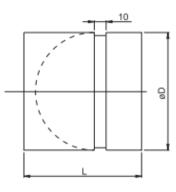


BDD-142

BDD-242

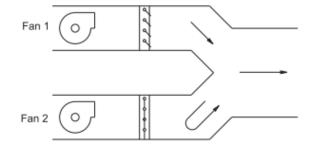
Circular back draft dampers are ideal for -of coursecircular air ducts.

Other characteristics are same as back draft dampers.





If there are more fan-blows than one in the system, back draft dampers will be excellent choice for maximum efficiency.





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BACK DRAFT DAMPERS

DATA DIAGRAMS

5 f21		B [mm]													
ΣĮ	S [m²]		300	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000
H [J]	210	0,042	0,063	0,084	0,105	0,126	0,147	0,168	0,189	0,210	0,252	0,294	0,336	0,378	0,420
	310	0,062	0,093	0,124	0,155	0,186	0,217	0,248	0,279	0,310	0,372	0,434	0,496	0,558	0,620
	410	0,082	0,123	0,164	0,205	0,246	0,287	0,328	0,369	0,410	0,492	0,574	0,656	0,738	0,820
	510	0,102	0,153	0,204	0,255	0,306	0,357	0,408	0,459	0,510	0,612	0,714	0,816	0,918	1,020
	610	0,122	0,183	0,244	0,305	0,366	0,427	0,488	0,549	0,610	0,732	0,854	0,976	1,098	1,220
	710	0,142	0,213	0,284	0,355	0,426	0,497	0,568	0,639	0,710	0,852	0,994	1,136	1,278	1,420
	810	0,162	0,243	0,324	0,405	0,486	0,567	0,648	0,729	0,810	0,972	1,134	1,296	1,458	1,620
	910	0,182	0,273	0,364	0,455	0,546	0,637	0,728	0,819	0,910	1,092	1,274	1,456	1,638	1,820
	1010	0,202	0,303	0,404	0,505	0,606	0,707	0,808	0,909	1,010	1,212	1,414	1,616	1,818	2,020
	1110	0,222	0,333	0,444	0,555	0,666	0,777	0,888	0,999	1,110	1,332	1,554	1,776	1,998	2,220
	1210	0,242	0,363	0,484	0,605	0,726	0,847	0,968	1,089	1,210	1,452	1,694	1,936	2,178	2,420
	1310	0,262	0,393	0,524	0,655	0,786	0,917	1,048	1,179	1,310	1,572	1,834	2,096	2,358	2,620
	1410	0,282	0,423	0,564	0,705	0,846	0,987	1,128	1,269	1,410	1,692	1,974	2,256	2,538	2,820
	1510	0,302	0,453	0,604	0,755	0,906	1,057	1,208	1,359	1,510	1,812	2,114	2,416	2,718	3,020
	1610	0,322	0,483	0,644	0,805	0,966	1,127	1,288	1,449	1,610	1,932	2,254	2,576	2,898	3,220
	1710	0,342	0,513	0,684	0,855	1,026	1,197	1,368	1,539	1,710	2,052	2,394	2,736	3,078	3,420
	1810	0,362	0,543	0,724	0,905	1,086	1,267	1,448	1,629	1,810	2,172	2,534	2,896	3,258	3,620
	1910	0,382	0,573	0,764	0,955	1,146	1,337	1,528	1,719	1,910	2,292	2,674	3,056	3,438	3,820
	2010	0,402	0,603	0,804	1,005	1,206	1,407	1,608	1,809	2,010	2,412	2,814	3,216	3,618	4,020

BD-142, EFFECTIVE AREA TABLE (m²)

N.B. The free surface areas refer to the net frontal section and are linked to the effective jet velocity and flow rate parameters of the following equation:

where:



Q supply air flow rate [m³/h]; v_r velocity relating to BxH [m/s]; S gross passageway surface area [m²]

SIZE	ØD	L
100	100	150
125	125	125
150	150	150
160	160	160
180	180	180
200	200	200
250	250	250
315	315	315

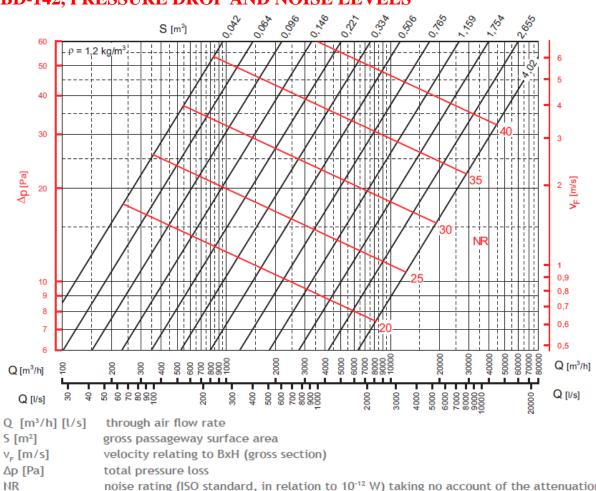
BD-342, STANDARD DIMENSIONS



Rev.02 26-05-2015

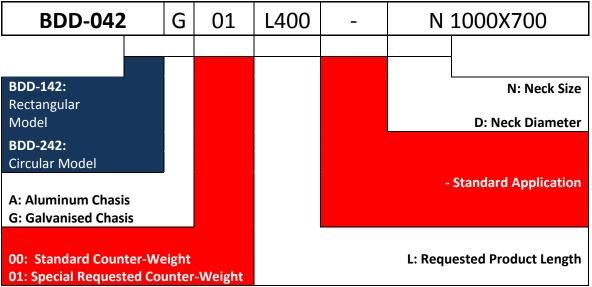


BACK DRAFT DAMPERS



noise rating (ISO standard, in relation to 10^{-12} W) taking no account of the attenuation of the room

ORDER PARAMETERS:





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