

Air Flow Control

NRD61 Back Draft Damper



At Gerhman we are driven by a strong desire to continuously generate improvements. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability.



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Air Flow Control

NRD61

Back Draft Dampers



Back draft dampers also named non return dampers type 'NRD61', are designed for use intake and discharge opening in commercial and residential air conditioning systems. When the ventilation system is on, the blades of the non-return damper are held in the open position by the airflow. If the system is switched off, the damper blades close automatically, thus preventing reverse airflow and giving protection against the ingress of untempered air, rain and birds into the air conditioning system.

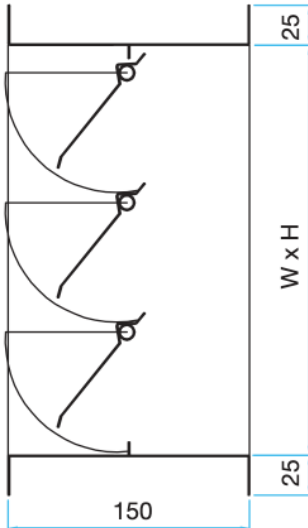
Design

- Non return damper designed to be duct mounted.
- Frame & blades made from galvanized steel.
- Frame and blades manufactured from mill finish aluminum. (optionally)
- Round spindles Ø 12 mm linked together by means of GI linkages.
- Gasket is provided on blade tips for low leakage. (optionally)
- Casing air leakage according to EN1752, class C
- The frame has 20-25-30-35 mm wide flanges options.

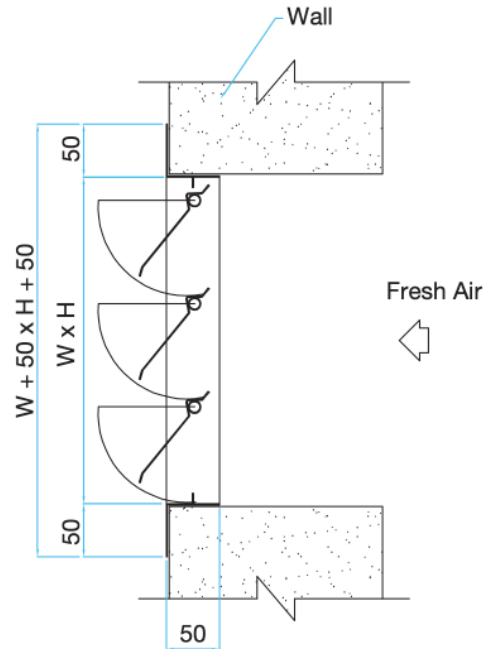
Nominal sizes	Min: 100 × 100 to 1600 × 1600 mm
Volume flow rate range	110 – 6460 l/s or 396 – 23256 m ³ /h @ 2.5 m/s
Total differential pressure	25 Pa at 2.5 m/s
Maximum differential pressure in closing direction	100 Pa
Operating temperature	-20 to 80 °C

Dimensions and Performance Data

NRD61



Duct Mounted



Wall Mounted

H	B [mm]									
	200		300		400		500		600	
mm	l/s	m3/h	l/s	m3/h	l/s	m3/h	l/s	m3/h	l/s	m3/h
215	110	396	160	576	215	774	270	972	325	1170
315	160	576	235	846	315	1134	395	1422	475	1710
415	210	756	310	1116	415	1494	520	1872	625	2250
515	260	936	385	1386	515	1854	645	2322	775	2790
615	310	1116	460	1656	615	2214	770	2772	925	3330
715	360	1296	535	1926	715	2574	895	3222	1070	3852
815	410	1476	610	2196	815	2934	1020	3672	1220	4392
1015	510	1836	760	2736	1020	3672	1270	4572	1520	5472
1215	610	2196	910	3276	1220	4392	1520	5472	1820	6552
1415	710	2556	1060	3816	1420	5112	1770	6372	2120	7632
1615	810	2916	1210	4356	1620	5832	2020	7272	2420	8712

volume flow rate at 2.5 m/s

Dimensions and Performance Data

NRD61

H	B [mm]									
	800		1000		1200		1400		1600	
mm	l/s	m3/h	l/s	m3/h	l/s	m3/h	l/s	m3/h	l/s	m3/h
215	430	1548	540	1944	645	2322	755	2718	860	3096
315	630	2268	790	2844	945	3402	1100	3960	1260	4536
415	830	2988	1040	3744	1250	4500	1450	5220	1660	5976
515	1030	3708	1290	4644	1550	5580	1800	6480	2060	7416
615	1230	4428	1540	5544	1850	6660	2150	7740	2460	8856
715	1430	5148	1790	6444	2150	7740	2500	9000	2860	10296
815	1630	5868	2040	7344	2450	8820	2850	10260	3260	11736
1015	2030	7308	2540	9144	3050	10980	3550	12780	4060	14616
1215	2430	8748	3040	10944	3650	13140	4250	15300	4860	17496
1415	2830	10188	3540	12744	4250	15300	4950	17820	5660	20376
1615	3230	11628	4040	14544	4850	17460	5650	20340	6460	23256

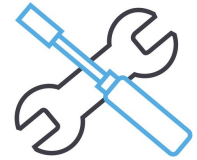
volume flow rate at 2.5 m/s

Differential pressure

v	Δp_t
m/s	Pa
0.5	10
1	15
2	20
3	25

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Installation, Maintenance & Operation

The fixing bolts, nuts, clips and gaskets shall be delivered by the installation company. The damper cannot be installed carrying any mechanical loads from other structures. NRD61 is mounted into the ductwork by a standard flange.

Transport & Storage

Dry indoor conditions with a temperature range of -20°C to +50°C.

Supplement

We reserve the right to make any changes to the product without prior notice, provided that these changes do not affect the quality of the product and the required parameters.



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