



Air Flow Control

**NRD61-V Horizontal Mounted
Vertical Flow 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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NRD61-V Horizontal Mounted Vertical Flow Back Draft Damper

NRD61-V damper is horizontal mount exhaust backdraft damper. Ideal for use in roof curbs, duct work, or wall collars when using a fan or power roof ventilator. Recommended for horizontal mount exhaust applications but it is also available for vertical mount.

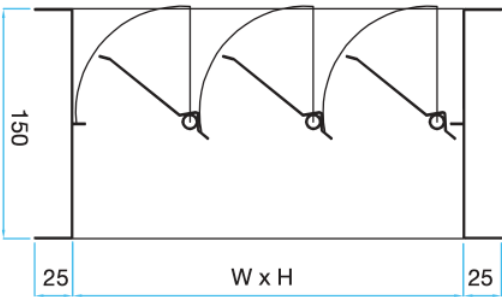
Design

- 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 m3/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-V



Optional flange model

| 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

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| 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 |

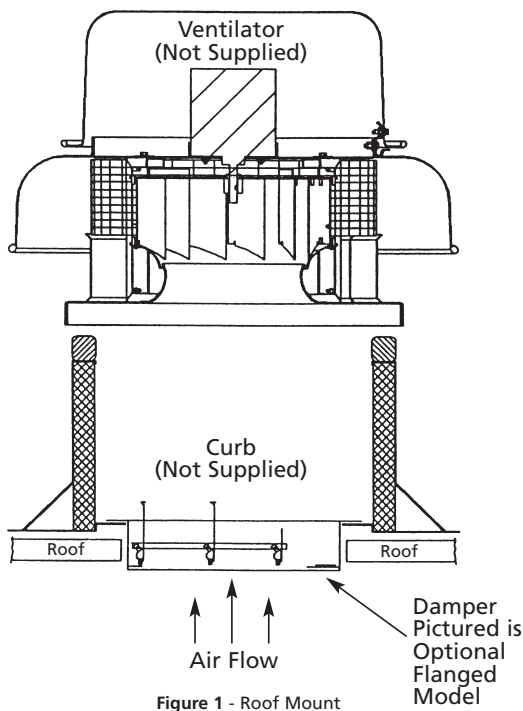
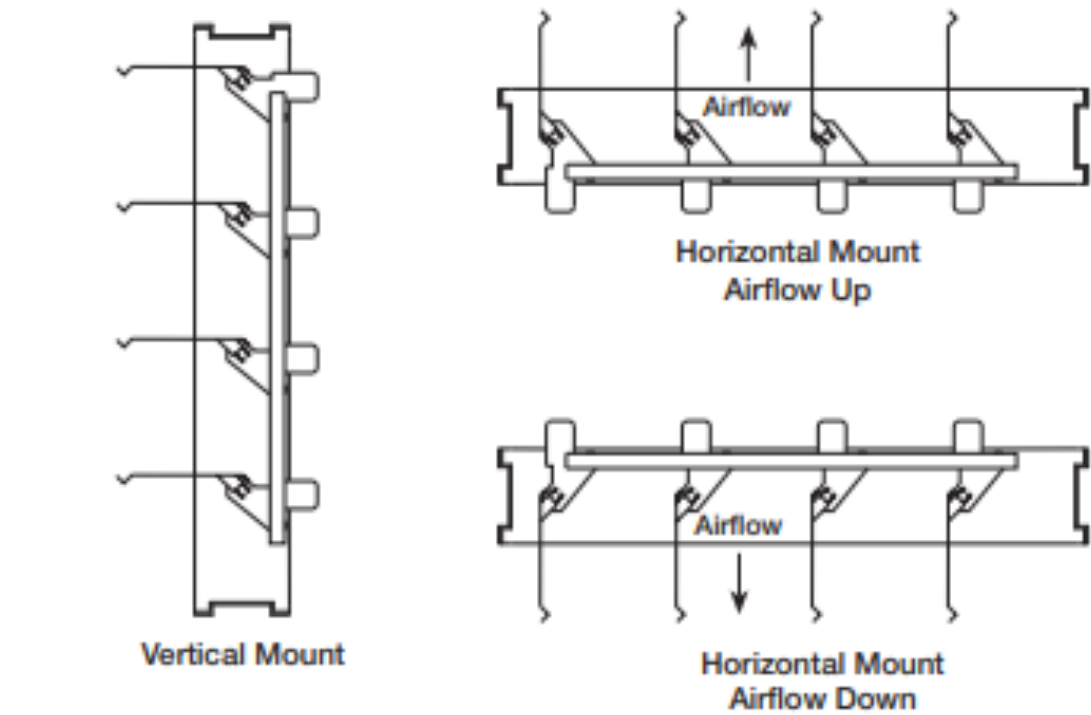
volume flow rate at 2.5 m/s

Differential pressure

| v | Δp _t |
|-----|-----------------|
| m/s | Pa |
| 0.5 | 10 |
| 1 | 15 |
| 2 | 20 |
| 3 | 25 |

Installation

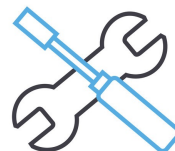
NRD61-V



It is designed to allow airflow in one direction and to prevent reverse airflow. The blades open with airflow and close by gravity when the fan shuts down. Models are available for exhaust or supply (intake) as well as for vertical mount applications. Ideal for use in roof curbs, duct work, or wall collars when using a fan or power roof ventilator. Do not use with any kitchen exhaust applications.

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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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NRD61-V Back Draft Dampers



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