

PAS, PDS Performance Notes

- Data obtained from tests conducted in accordance with ANSI / ASHRAE Standard 70-1991. Actual performance, with flexible duct inlet, may vary in the field. See the Engineering Guidelines section of this catalog for additional information.

- Throw values given are for terminal velocities of 150, 100 and 50 fpm and for isothermal conditions.
- For an explanation of catalog throw data, see the section, Engineering Guidelines.
- NC values based on octave band 2 to 7 sound power levels minus a room absorption of 10 dB.

- Each NC value represents the noise criteria curve that will not be exceeded by the sound pressure in any of the octave bands, 2 through 7, with a room absorption of 10 dB, re 10⁻¹² watts.
- Dash (-) in space denotes an NC value of less than 10.
- All pressures are given in inches of water.
- To obtain static pressure, subtract the velocity pressure from the total pressure.

PAR, PXP, PMR, PXP-DR, PDR Performance Data

PAR, PXP, PMR • Flush Face • Return; PXP-DR, PDR • Drop Face • Return

| | Neck Size | Neck Vel, fpm | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | |
|------------------------|----------------|----------------|----------------|------|------|------|------|------|------|------|------|------|
| | | Vp, in. Wg | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.06 | 0.09 | 0.12 | 0.12 |
| | | Ps (-), in. Wg | 0.03 | 0.06 | 0.09 | 0.13 | 0.17 | 0.23 | 0.36 | 0.51 | 0.70 | |
| 12 x 12 Face | 6 Dia. * | Flow Rate, cfm | 59 | 78 | 98 | 118 | 137 | 157 | 196 | 235 | 275 | |
| | | Room NC | - | - | - | 14 | 18 | 21 | 27 | 32 | 36 | |
| | 6 x 6 Neck * | Flow Rate, cfm | 75 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | |
| | | Room NC | - | - | 12 | 17 | 21 | 24 | 30 | 35 | 39 | |
| 10 x 10 Neck | Flow Rate, cfm | 208 | 278 | 347 | 417 | 486 | 556 | 694 | 833 | 972 | | |
| | Room NC | 15 | 23 | 29 | 33 | 37 | 41 | 47 | 51 | 55 | | |
| 24 x 24 Face | Neck Size | Neck Vel, fpm | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | |
| | | Vp, in. Wg | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.06 | 0.09 | 0.12 | |
| | | | Ps (-), in. Wg | 0.03 | 0.06 | 0.09 | 0.13 | 0.18 | 0.24 | 0.37 | 0.54 | 0.73 |
| | 6 Dia. * | Flow Rate, cfm | 59 | 78 | 98 | 118 | 137 | 157 | 196 | 235 | 275 | |
| | | Room NC | - | - | - | 13 | 17 | 20 | 26 | 31 | 34 | |
| | 6 x 6 Neck * | Flow Rate, cfm | 75 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | |
| | | Room NC | - | - | - | 14 | 18 | 21 | 27 | 32 | 35 | |
| | 8 Dia. * | Flow Rate, cfm | 105 | 140 | 174 | 209 | 244 | 279 | 349 | 419 | 488 | |
| | | Room NC | - | - | 13 | 17 | 21 | 24 | 30 | 35 | 38 | |
| | 8 x 8 Neck * | Flow Rate, cfm | 133 | 178 | 222 | 267 | 311 | 355 | 444 | 533 | 622 | |
| | | Room NC | - | - | 14 | 18 | 22 | 25 | 31 | 36 | 39 | |
| | 10 Dia. * | Flow Rate, cfm | 164 | 218 | 273 | 327 | 382 | 436 | 545 | 654 | 763 | |
| | | Room NC | - | - | 16 | 20 | 24 | 27 | 33 | 38 | 41 | |
| | 10 x 10 Neck * | Flow Rate, cfm | 208 | 278 | 347 | 417 | 486 | 556 | 694 | 833 | 972 | |
| | | Room NC | - | 11 | 17 | 21 | 25 | 28 | 34 | 39 | 42 | |
| | 12 Dia. * | Flow Rate, cfm | 235 | 314 | 392 | 471 | 549 | 628 | 785 | 942 | 1099 | |
| | | Room NC | - | 12 | 17 | 22 | 26 | 29 | 34 | 39 | 43 | |
| | 12 x 12 Neck * | Flow Rate, cfm | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | |
| | | Room NC | - | 14 | 20 | 24 | 28 | 31 | 37 | 42 | 45 | |
| | 14 Dia. * | Flow Rate, cfm | 320 | 427 | 534 | 641 | 748 | 855 | 1068 | 1282 | 1495 | |
| Room NC | | - | 15 | 21 | 25 | 29 | 32 | 38 | 43 | 46 | | |
| 15 x 15 Neck * | Flow Rate, cfm | 469 | 625 | 781 | 938 | 1094 | 1250 | 1563 | 1875 | 2188 | | |
| | Room NC | - | 16 | 22 | 26 | 30 | 33 | 39 | 44 | 47 | | |
| 16 Dia. * | Flow Rate, cfm | 413 | 558 | 698 | 837 | 977 | 1116 | 1395 | 1674 | 1953 | | |
| | Room NC | 11 | 18 | 24 | 28 | 32 | 35 | 41 | 46 | 49 | | |
| 18 x 18 Neck * | Flow Rate, cfm | 675 | 900 | 1125 | 1350 | 1575 | 1800 | 2250 | 2700 | 3150 | | |
| | Room NC | 11 | 18 | 24 | 28 | 32 | 36 | 41 | 46 | 49 | | |
| 22 x 22 Neck | Flow Rate, cfm | 1008 | 1344 | 1681 | 2017 | 2353 | 2689 | 3361 | 4033 | 4706 | | |
| | Room NC | 13 | 20 | 26 | 30 | 34 | 37 | 43 | 47 | 51 | | |
| Other Sizes | Neck Size | Neck Vel, fpm | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | |
| | | Vp, in. Wg | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.06 | 0.09 | 0.12 | |
| | | Ps (-), in. Wg | 0.03 | 0.06 | 0.09 | 0.13 | 0.17 | 0.23 | 0.36 | 0.51 | 0.70 | |
| 10 x 22 (12 x 24 Face) | Flow Rate, cfm | 458 | 611 | 764 | 917 | 1069 | 1222 | 1528 | 1833 | 2139 | | |
| | Room NC | - | - | - | 14 | 18 | 21 | 27 | 32 | 36 | | |
| 14 x 14 (16 x 16 Face) | Flow Rate, cfm | 408 | 544 | 681 | 817 | 953 | 1089 | 1361 | 1633 | 1906 | | |
| | Room NC | - | - | 12 | 17 | 21 | 24 | 30 | 35 | 39 | | |
| 18 x 18 (20 x 20 Face) | Flow Rate, cfm | 675 | 900 | 1125 | 1350 | 1575 | 1800 | 2250 | 2700 | 3150 | | |
| | Room NC | - | 11 | 17 | 22 | 26 | 29 | 35 | 40 | 44 | | |
| 22 x 46 (24 x 48 Face) | Flow Rate, cfm | 2108 | 2811 | 3514 | 4217 | 4919 | 5622 | 7028 | 8433 | 9839 | | |
| | Room NC | 12 | 20 | 25 | 30 | 34 | 38 | 43 | 48 | 52 | | |

PAR, PXP, PMR, PXP-DR, PDR Performance Notes

- * Supply unit with deflectors removed.

- Static pressures are negative, in inches of water, measured per ANSI/ASHRAE Standard 70-91.
- Noise Criteria (NC) based on a room absorption of 10 dB, re 10⁻¹² watts, measured per ANSI/ASHRAE Standard 70-91.

- These products have been tested per ANSI/ASHRAE Standard 70-91. Actual performance, with flexible duct inlet, may vary in the field.
- See the section, Engineering Guidelines for additional information.