



FAN SELECTION SPECIFICATIONS AND GUIDELINES

With Fan Replacement Guide

This handy 4-page guide is intended to make it easier for you to have RadonAway® fan specifications and our fan replacement chart at your fingertips where you need them, when you need them.

As always, we are committed to providing you with not only the highest quality radon mitigation products but also information to help you provide expert, effective professional radon services.

To request copies, contact your RadonAway Account Manager.





RP Pro Series

Use RP fans for quiet operation, energy efficiency and high air flow in porous sub-slab or sub-membrane materials consisting of about 4 inches of clean, size 4-6 gravel.



XP/XR Pro Series

Use XP/XR fans for compact size, lower pressure and average flow in very porous sub-slab/membrane materials consisting of 4 inches of clean, size 4-6 gravel.



LV175

The LV175 Low Voltage Radon Fan includes a power pack and cord for connecting to up to 120v AC power. No additional electrical work is required.



GX Series

The GX Series fans will get the job done when conditions call for power, reliability and quiet operation in moderate to tight sub-slab/membrane conditions.



GPc Pro Series

Use GPc fans for versatility and a broad performance range in moderate to tight sub-slab/sub-membrane conditions. Ideal choice when multiple suction points are necessary.



SF180

Use the SF180 for its low-profile design and moderate to good air flow in porous sub-slab or sub-membrane conditions ranging from about 4 inches of clean, size 4-6 gravel, to very loose soil.



EC6

Use the EC6 variable-speed fan for applications where high suction and high flow are required. Ideal for high radon levels, poor sub-slab communi-cation, multiple suction points and/or large sub slab footprint..



HS Series

Use HS fans in sand, clay or tight soil conditions when you need higher suction than an inline fan can provide.

| MODEL | P/N | FAN DUCT DIAMETER | RRNC 2.0 RADON FAN TYPE | WATTS | RECOM. MAX OP. PRESSURE "WC* Alt. >1,000ft. see NOTE | MAX. PRESSURE "WC | TYPICAL CFM vs. STATIC PRESSURE WC | | | | | | | | | | | | | | FAN WEIGHT (lbs) | SHIPPING WEIGHT (lbs) | |
|--------|---------|-------------------|-------------------------|---------|---|-------------------|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|---|---|------------------|-----------------------|------|
| | | | | | | | 0" | .2" | .5" | 1.0" | 1.5" | 2.0" | 2.5" | 3.0" | 3.5" | 4.0" | 4.5" | 5.0" | | | | | |
| RP140† | 28460 | 4" | RF1 | 14-19 | 0.6 | 0.7 | 152 | 120* | 64* | - | - | - | - | - | - | - | - | - | - | - | - | 4.5 | 6 |
| RP145 | 28461 | 4" | RF1, RF2 | 34-66 | 1.7 | 2.1 | 169 | 150* | 124* | 81* | 42 | 4 | - | - | - | - | - | - | - | - | - | 5.5 | 7 |
| RP260 | 28462 | 6" | - | 47-65 | 1.3 | 1.4 | 251 | 210* | 157 | 70 | - | - | - | - | - | - | - | - | - | - | - | 5.5 | 8 |
| RP265 | 28463 | 6" | - | 96-136 | 2.3 | 2.4 | 375 | 340* | 282* | 204* | 140 | 70 | - | - | - | - | - | - | - | - | - | 6.5 | 9 |
| RP380 | 28464 | 8" | - | 90-145 | 2.0 | 2.2 | 541 | 510* | 461* | 347* | 235 | 107 | - | - | - | - | - | - | - | - | - | 11.5 | 12 |
| XP151 | 28469 | 4" | RF1, RF2 | 53-70 | 1.4 | 1.5 | 167 | 151 | 127 | 77 | - | - | - | - | - | - | - | - | - | - | - | 4.9 | 6 |
| XP201 | 28470 | 4" | RF1 | 38-74 | 1.6 | 1.7 | 126 | 115 | 98 | 66 | 26 | - | - | - | - | - | - | - | - | - | - | 5 | 6 |
| XR261 | 23019-1 | 6" | - | 67-117 | 1.6 | 1.7 | 217 | 190 | 149 | 87 | 27 | - | - | - | - | - | - | - | - | - | - | 5.7 | 8 |
| LV175 | 28537 | 4" | RF1, RF2 | 30-75 | 1.9 | 2.1 | 216 | 200 | 176 | 135 | 90 | - | - | - | - | - | - | - | - | - | - | 5.5 | 7.5 |
| GX3 | 28584 | 3" | - | 60-135 | 3.3 | 3.5 | - | - | - | 96 | 86 | 72 | 57 | 40 | - | - | - | - | - | - | - | 7.6 | 10 |
| GX4 | 28585 | 3" | - | 74-158 | 4.8 | 5.3 | - | - | - | - | - | 84 | 74 | 63 | 53 | 41 | - | - | - | - | - | 8.1 | 10 |
| GX5 | 28586 | 3" | - | 75-180 | 5.2 | 5.6 | - | - | - | - | - | 98 | 93 | 76 | 65 | 54 | 31 | - | - | - | - | 8.15 | 10.1 |
| GX5A | 28536 | 4" | - | 80-180 | 5.0 | 5.1 | 178 | 173 | 167 | 153 | 137 | 123 | 109 | 96 | 83 | 53 | 34 | 6 | - | - | - | 8.9 | 12 |
| GP301c | 28466 | 3" | - | 56-100 | 2.3 | 2.5 | - | - | - | 64 | 54 | 41 | 4 | - | - | - | - | - | - | - | - | 9.8 | 12 |
| GP501c | 28468 | 3" | - | 68-146 | 3.8 | 4.1 | - | - | - | - | - | 66 | 58 | 50 | 27 | - | - | - | - | - | - | 10 | 12 |
| SF180 | 28317 | 3" or 4" | - | 53-71 | 1.7 | 2.1 | 149 | 140 | 127 | 96 | 61 | - | - | - | - | - | - | - | - | - | - | 12.8 | 15 |
| GP500 | 23003-1 | 3" | - | 85-153 | 3.8 | 4.0 | - | - | - | - | - | 51 | 45 | 35 | 18 | - | - | - | - | - | - | 18 | 20 |
| EC6 | 28625 | 6" | - | 140-175 | 4.25 | 4.4 | 514 | 490* | 451 | 381 | 330 | 271 | 211 | 152 | 101 | 49 | - | - | - | - | - | 6.5 | 8.25 |

*Denotes HVI certified values. †Denotes Energy Star® Rated.

| MODEL | P/N | FAN DUCT DIAMETER | SPEED SETTING | WATTS | RECOM. MAX OP. PRESSURE "WC | MAX. PRESSURE "WC | TYPICAL CFM VS STATIC SUCTION WC | | | | | | | | FAN WEIGHT (lbs) | SHIPPING WEIGHT (lbs) |
|--------|-------|-----------------------|---------------|---------|-----------------------------|-------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|------------------|-----------------------|
| | | | | | | | 2.5" | 5.0" | 7.5" | 10.0" | 12.5" | 15.0" | 20.0" | 25.0" | | |
| HS2750 | 28595 | 3" inlet 2" outlet | Low | 112-123 | 5" | 7.8" | 33 | 24 | - | - | - | - | - | - | 18 | 21.6 |
| | | | Med | 199-245 | 10" | 13.5" | 47 | 42 | 34 | 25 | - | - | - | - | | |
| | | | High | 266-337 | 15" | 17.6" | - | - | 47 | 43 | 33 | 23 | - | - | | |
| | | | Max | 361-463 | 20" | 22.6" | - | - | - | - | 48 | 43 | 24 | - | | |
| MODEL | P/N | FAN DUCT DIAMETER | SPEED SETTING | WATTS | RECOM. MAX OP. PRESSURE "WC | MAX. PRESSURE "WC | 5.0" | 10.0" | 20.0" | 25.0" | 30.0" | 35.0" | 40.0" | 50.0" | FAN WEIGHT (lbs) | SHIPPING WEIGHT (lbs) |
| | | | | | | | 5.0" | 10.0" | 20.0" | 25.0" | 30.0" | 35.0" | 40.0" | 50.0" | | |
| HS5500 | 28596 | 3" inlet 2" outlet | Low | 243-281 | 20" | 24.5" | 44 | 39 | 22 | - | - | - | - | - | 19.25 | 22.9 |
| | | | Med | 372-477 | 30" | 34.7" | - | 53 | 41 | 36 | 22 | - | - | - | | |
| | | | High | 527-625 | 40" | 44.6" | - | - | - | 45 | 39 | 31 | 22 | - | | |
| | | | Max | 591-632 | 50" | 52.6" | - | - | - | - | - | 34 | 29 | 17 | | |

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Reducing Radon in New Construction of 1 & 2 Family Dwellings and Townhouses

This chart displays the designated radon fan types recommended in the new standard.

*Radon Fan Types RF1 & RF2 minimum flow and pressure ratings are manufacturer specifications.

| PIPE SIZE Nominal (I.D.) | TOTAL FOUNDATION AREA | | |
|-----------------------------|---|--|--|
| | < 1600 sq. feet < 149 sq. meters | 1600 to 2500 sq. feet 149 to 232 sq. meters | > 2500 sq. feet > 232 sq. meters |
| (3") [7.6 cm] | Use Radon Fan Type: RF1 RF1 Minimum rating:* 50 cfm @ 0.5" WC [85m³/hr @ 125 Pa] | Use Radon Fan Type: RF2 RF2 Minimum rating:* 75 cfm @ 1.0" WC [127m³/hr @ 250 Pa] | Radon fan to be sized by a certified/licensed radon mitigator. |
| (4") [10 cm] | Use Radon Fan Type: RF1 RF1 Minimum rating:* 50 cfm @ 0.5" WC [85m³/hr @ 125 Pa] | Use Radon Fan Type: RF1 RF1 Minimum rating:* 50 cfm @ 0.5" WC [85m³/hr @ 125 Pa] | Radon fan to be sized by a certified/licensed radon mitigator. |

NOTE: This chart is based on airflow through the ducting of the fan. Every time you reduce the duct size, there is a 20% degradation of airflow. Airflow drops 4% every 1000 feet alt. You can calculate adjusted recommended maximum operating pressure based on the following formula:

EXAMPLE:
GP501 Fan Operating in Denver, CO at Elevation of 5280 ft

$$\left(\text{Recommended Fan Operating Pressure} \right) - \left(\text{Recommended Fan Operating Pressure} \times \frac{\text{Altitude}}{1,000 \text{ ft}} \times 4\% \right) = \text{Actual Maximum Fan Operating Pressure (Adjusted for altitude)}$$

$$\left(3.8" \text{ Recommended WC} \right) - \left(3.8" \times \frac{5,280 \text{ ft}}{1,000 \text{ ft}} \times 4\% \right) = 3.0" \text{ Actual WC}$$

Using Denver, CO as an example, RP145 actual WC reduces to 1.3, and RP265 reduces to 1.7 at 5,280 ft.

RRNC

RADONAWAY FANS SUITABLE AS DESIGNATED BY CCAH STANDARD

| MODEL | FAN DUCT DIAM. | WATTS | RECOM. MAX. OP. PRESSURE "WC | TYPICAL CFM vs. STATIC PRESSURE WC | | | | | CCA H Radon Fan Type |
|--------|----------------|-------|------------------------------|------------------------------------|------|------|------|------|----------------------|
| | | | | 0" | 0.2" | 0.5" | 1.0" | 1.5" | |
| RP140† | 4" | 14-19 | 0.6 | 152 | 120* | 64* | - | - | RF1 |
| RP145 | 4" | 34-66 | 1.7 | 169 | 150* | 124* | 81* | 42 | RF1, RF2 |
| XP151 | 4" | 53-70 | 1.4 | 167 | 151 | 127 | 77 | - | RF1, RF2 |
| XP201 | 4" | 38-74 | 1.6 | 126 | 115 | 98 | 60 | 26 | RF1 |
| LV175 | 4" | 30-75 | 1.9 | 216 | 200 | 176 | 135 | 90 | RF1, RF2 |

*Denotes HVI certified values. † Denotes Energy Star® Rated.

| RadonAway® Replacement Fans | | |
|-----------------------------|--------------------------------|--------------------------------------|
| | ORIGINALLY INSTALLED FAN | RadonAway® REPLACEMENT FAN |
| Fantech | Rn4 | GX5, GX4, GX5A, GP501c, EC6 |
| | R100, F100, FR100, HP2133, Rn1 | RP140 or LV175 |
| | R150, F150, FR150, Rn3 | XR261 or RP260 |
| | R160, F160, FR160, Rn2X | RP260 or RP265 |
| | R175, F175, FR175 | RP265 |
| | HP190, HP2190, Rn2, Rn2EC | RP145 or LV175 |
| | HP190SL, Rn2SL | SF180 |
| | HP220 | RP265 |
| AMG/FESTA | Maverick Low Voltage | RP145, XP151, XP201, or LV175 |
| | Hawk Low Voltage | RP260 or XR261 |
| | Prowler Low Voltage | GX3, GP301c |
| | Legend Low Voltage | RP265 |
| | Eagle | GX3, GX4, GX5, GP301c |
| | Eagle Extreme | GX4, GX5, GX5A, EC6 |
| | Legend Extreme | EC6 |
| | Goliath | RP260, GX4, GX5, GX5A, EC6 |
| | Force | RP260, GX4, GX5, GX5A, EC6 |
| Kanalfakt/ FanAmerica | T1 Turbo 5 (Fiberglass) | XP201*, XP151*, or LV175 |
| | T2 Turbo 6 (Fiberglass) | XR261 or RP260 |
| | K4 (Metal Kanalfakt) | RP140* or LV175 |
| | K4XL (Metal Kanalfakt) | XP201*, XP151*, or LV175 |
| | K6 (Metal Kanalfakt) | XR261 or RP260 |
| Rosenberg | R100 | RP140* or LV175 |
| | R150 | XR261 or RP260 |

*Slightly different duct diameter requires different flexible couplings. Depends on site needs: airflow vs. static pressure.