



Tjernlund Radon Mitigation Products



Your Source for Effective and Affordable

- Side Wall Vented Radon Mitigation Systems
- Roof Vented Radon Mitigation Fans
- Radon Ventilation & Dilution Fans
- Radon Alarms & Monitors

Protect Your Home and Family From Radon

Radon is a radioactive emission of uranium with high concentrations found in many areas. Radon rises from the soil and into the home where this radioactive carcinogen may be inhaled by occupants.

The EPA estimates that over 20,000 deaths each year are radon related making it the second leading cause of lung cancer deaths. The most common solution to reduce radon exposure is through fan-powered mitigation systems.

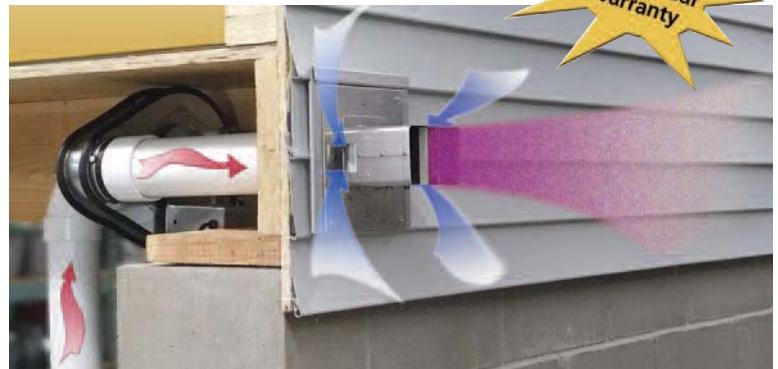
Side Wall Radon Mitigation System

RADON VAC™

*Studies Show Side Wall Venting is Safe, Simple and Saves!**

Tjernlund is the originator and leading manufacturer of Side Wall Vent systems for gas and oil heaters.

Now, Tjernlund has developed the first engineered solution for Side Wall Venting radon gas. System includes: Sealed blower with 3" PVC connectors and a patent pending high velocity discharge hood.

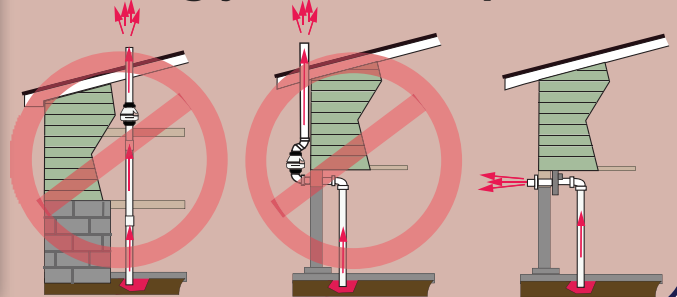


Avoid the Costs and Hassles of Running PVC Through the Roof

Compare the Total Installed Cost!

With Radon VAC:	You Save	Avoid these hassles:
✓ No Electrician	\$ 125	✓ No Routing PVC Through Living Spaces
✓ No Roof Terminus	\$ 25	✓ No Ladder/Roof Climbing
✓ No Couplings	\$ 20	✓ No Ugly PVC or Fan on Home Exterior
✓ No Condensate Drain	\$ 25	✓ No Rain/Condensation in PVC
✓ No Extra PVC	\$ 50	✓ No Fan Orientation Restrictions
✓ No Extra Hardware	\$ 40	✓ No Extra PVC Routing
✓ No Extra Labor	\$200	✓ No Guessing on Fan Size/Model
	\$485	

Avoid Ugly, Intrusive Pipe Runs



Patent Pending Variable Aspiration Control

Easily adjust the discharge hood to increase dilution and velocity. This allows the Radon VAC to operate in sub-slab or sump pit installations and with different pipe runs while always producing a strong jet of diluted exhaust.



Easy Installation

Both fan and hood directly connect to 3" PVC. No rubber couplers needed as with other fans. Rubber isolated mounting bracket eliminates vibration transfer and rotates 360° to accommodate any orientation. Mount vertically or horizontally.



Sealed Housing for Safety

Custom fitted gaskets throughout the fan prevent radon gas leakage. Features heavy duty galvanized steel housing and powerful backward inclined steel impeller.



Model RMS160

Volts	120
Watts	23-53
Amps	0.19-0.44
CFM	160 @ 0" w.c.
Max Pressure	2.3"

* A Health Canada radon study found above ground discharge radon systems reduced radon by 91% (+/-6%) and for 57% less in labor costs and 14% less in material costs compared to roof vented systems. "The results of rim-joint installations discharging above ground level with the fans located in the basement show that a sealed radon fan with proper fittings and sealed piping were able to reduce radon to acceptable levels in a cost-effective manner." Brossard, Mathieu, et al. Residential Radon Mitigations at Kitigan Zibi Anishinabeg: Comparison of Above Ground Level and Above Roof Line Discharge of Radon Mitigation Sub-Slab Depressurization Systems. Health Physics Society, 2012.

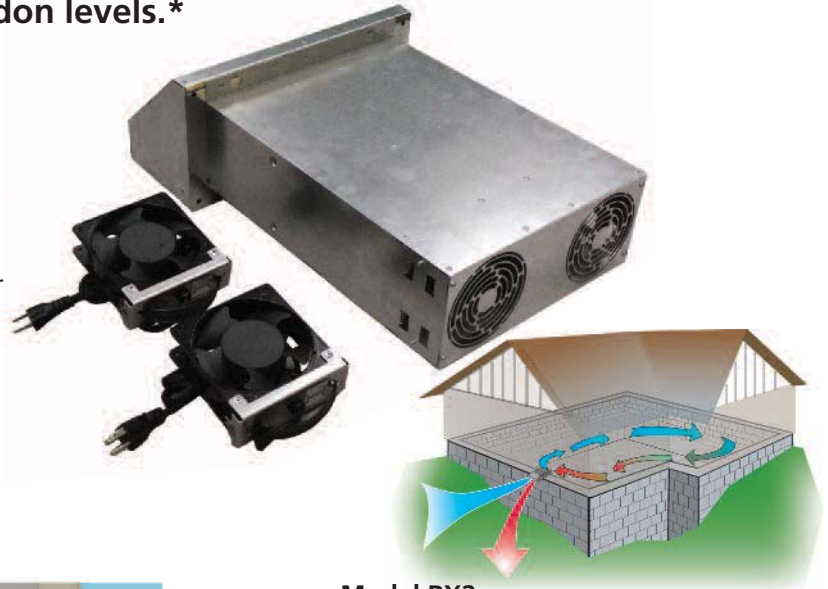
Radon Ventilation and Dilution Fans

Diluting radon concentrations with outdoor air is an effective and affordable way to decrease radon exposure in homes.

Tjernlund's self contained Ventilation Fans do not require connection to PVC pipe and offer an effective way to simplify installations, lower cost and reduce Radon levels in homes with lower (10 pCi/l or less) radon levels.*

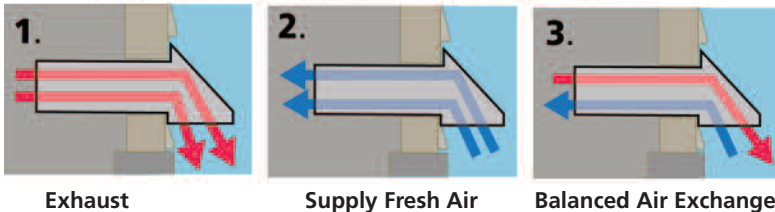
RX2 Ventilator For Basements and Non-Ventilated Crawl Spaces

The RX2 Radon Ventilator includes 2 reversible fans that can be set to exhaust, supply fresh air, or positioned with one fan in each direction for a balanced air exchange. At 220 CFM, the RX2 ventilates a 20' x 40' x 8' basement twice per hour and uses only 40 watts. Needs only a 5" x 12" opening through the rim joist or outside wall. Comes with 6' power cords and exterior hood. Run it continuously or with a plug-in timer. Also helps reduce basement humidity.



Three Air Flow Options

Easily reverse the direction of the airflow to:



Model RX2

	1 Fan	2 Fans
Volts	120	120
Watts	20	40
Max Amps	0.3	0.6
CFM	110	220

Rough In: 5"x12"

RV2 Ventilator For Ventilated Crawl Spaces



The RV2 Radon Ventilator exhausts radon and other harmful soil gases and allows fresh outdoor air to replace them. At 220 CFM, the RV2 ventilates a 20' x 40' x 3' crawl space over 5 times per hour while using only 40 watts. Simply mount the unit against a vent opening with the included hardware and plug it in. For even greater results multiple units can be installed. Run it continuously or with a plug-in timer. Also helps reduce crawl space humidity.

Model RV2

Volts	120
Watts	40
Max Amps	0.6
CFM	220

Dimensions:
9"x18" trimmable

*Basement ventilation can be a much more effective ventilation strategy than previously believed. It might be especially useful in houses with low radon concentrations (of the order of 10 pCi/l) or those with low levels that cannot be mitigated cost-effectively with conventional technology." Cavallo, A. et al. Natural Basement Ventilation as a Radon Mitigation Technique. EPA/600/SR-92/059, 1992.

Traditional Radon Fans

Wall Mount Radon Fans



R4B Low Profile Wall Mount Radon Fan

Wall hugging low profile design and heavy duty 20 gauge steel housing make the R4B the choice for discrete, architecturally sensitive, exterior wall installations. Directly connects to 4" PVC without the need for rubber couplers. White powder coat finish with stainless steel hardware.

R4BC Commercial Low Profile Wall Mount Radon Fan

The same heavy duty construction and finish as the R4B but with the performance required by commercial jobs with large floor footprints and extensive piping. Pressure producing capabilities exceeding 5" W.C.

In-Line Radon Fans



The R-Series Radon Fans span a wide range of both pressure and flow performance. The housings are constructed of non-yellowing, UV resistant, fiberglass reinforced polyester with a light gray finish. All feature waterproof electrical junction box covers and high quality, maintenance-free motors made by ebm-papst.

Radon Fan Performance

Model	Max Static Pressure	Max CFM	Watts	Application
R3HF	2.71" w.c.	163	130	Moderate Suction/Low Flow
R4HF	1.88" w.c.	220	85	Low Suction/Moderate Flow
R5HF	2.60" w.c.	353	150	Moderate Suction/High Flow
R3LW	0.90" w.c.	121	20	Low Suction/Low Flow
R5LW	1.75" w.c.	294	85	Low Suction/High Flow
R3HS	3.99" w.c.	124	160	High Suction/Low Flow
R8C	2.65" w.c.	520	142	Moderate Suction/High Flow
R4B	1.90" w.c.	195	90	Low Suction/Moderate Flow
R4BC	5.51" w.c.	240	302	High Suction/Moderate Flow

Flexible Radon Fan to PVC Couplers



RC3X3
RC4X3
RC4X4
RC6X4

Size
3" - 3"
4" - 3"
4" - 4"
6" - 4"

Flexible rubber couplers are used to connect nominal diameter fan inlets/outlets to the OD of schedule 40 PVC pipe. Couplers have stainless steel tightening hardware and allow for easy installation and fan replacement. Sold in sets of 2.

PVC4 16 Watt 4" Booster Fan

The ultra-low cost and simple radon mitigation fan.

Improve the performance of passive (no fan) radon exhaust stacks easily and inexpensively with the Radon Vent Booster Fan, model PVC4. The PVC4 connects directly with 4" Schedule 40 PVC and comes with a 6' power cord. Installs in 5 minutes. 90 CFM and only 16 watts. Add the PVC4 to your system for an instant performance boost. (Not for side wall discharge.)



Model PVC4

Volts	120
Watts	16
Max Amps	0.2
CFM	90

Alarms

Fan Failure Alarm

Model RA1

Tjernlund's Fan Failure Alarm alerts homeowners of a radon fan failure or ice induced pipe blockage. Alarm sounds when loss of exhaust flow is detected. Secondary gauge port allows installer to measure actual system exhaust pressure. Large bright indicator lights are easily visible. Mounts to any flat surface or PVC piping. Includes low voltage power supply, sensing tubing and mounting hardware. Compatible with all Active Sub-Slab Depressurization (ASD) systems.



Safety Siren Pro 3

Model RS1

The Safety Siren Pro 3 is an easy-to-use radon monitor that plugs into a standard household wall outlet to continuously monitor your home for radon gas. It can be used for both short and long-term tests. An alarm will sound when radon levels reach 4.0 pCi/L or higher. Rated #1 digital readout meter for radon testing by a leading national consumer advocacy group.



Available from:



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