



# Ventilation Solutions

## Radon Mitigation



## Radon is a health hazard with a simple solution

Radon is everywhere! You can't see radon and you can't smell it or taste it, but it may be a problem in your home. The latest EPA estimate suggests that over 7 million US homes are at risk.

Radon is an odorless, colorless gas that comes from the natural (radioactive) breakdown of uranium in soil, rock and water and contaminates in the air you breathe. According to the EPA, radon is estimated to cause 21,000 lung cancer deaths per year!

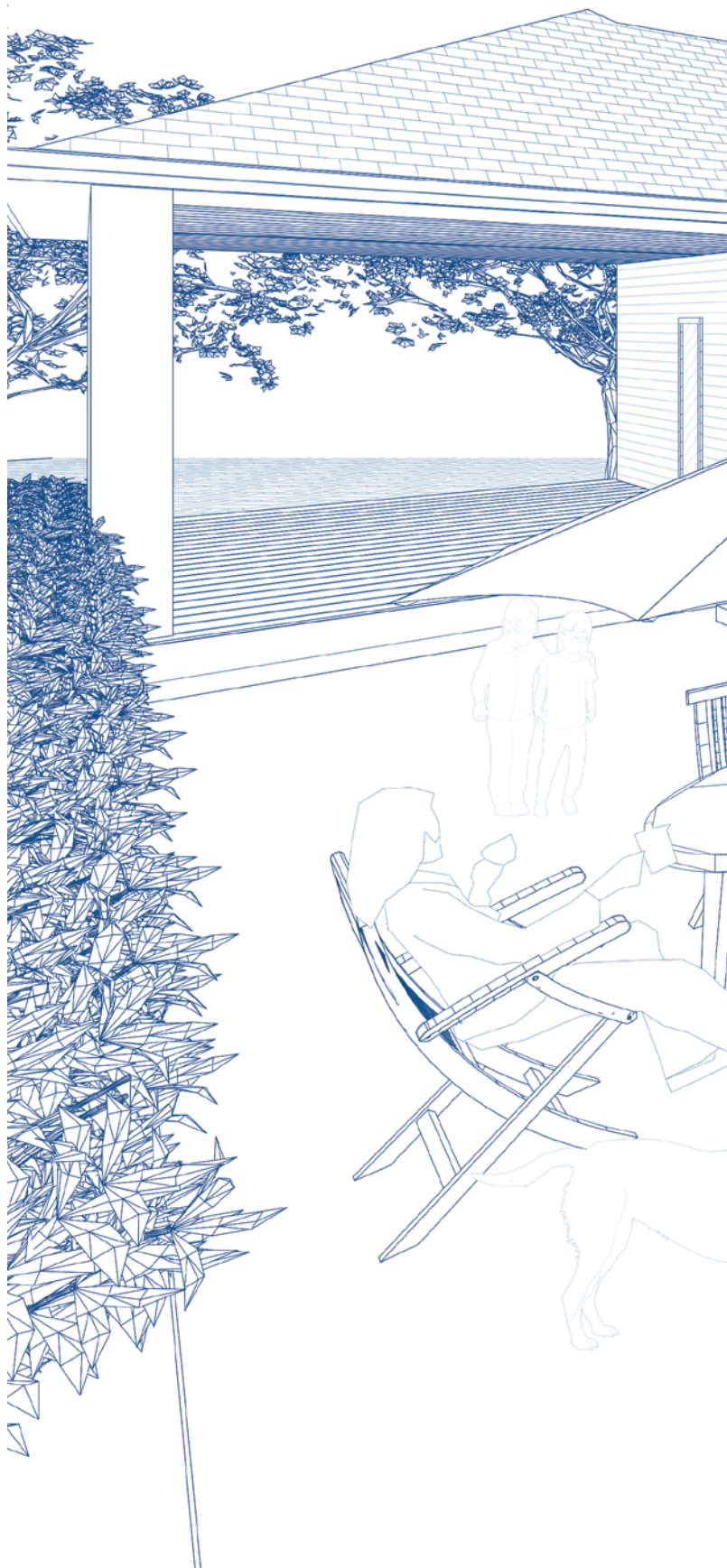
Due to the varying levels of subterranean uranium, Radon levels can change from area to area. However, if you live in a high risk region, Radon exposure can be concentrated in your home where the gas is trapped if proper mitigation has not occurred. More information on Radon levels by region can be found at [www.epa.gov/radon](http://www.epa.gov/radon)

Testing is the only way to know if you and your family are at risk. Testing is easy and inexpensive; most hardware stores carry Radon Test Kits. The EPA recommends that you mitigate your home if the radon level is at or above 4 Picocuries per liter (4pCi/L).

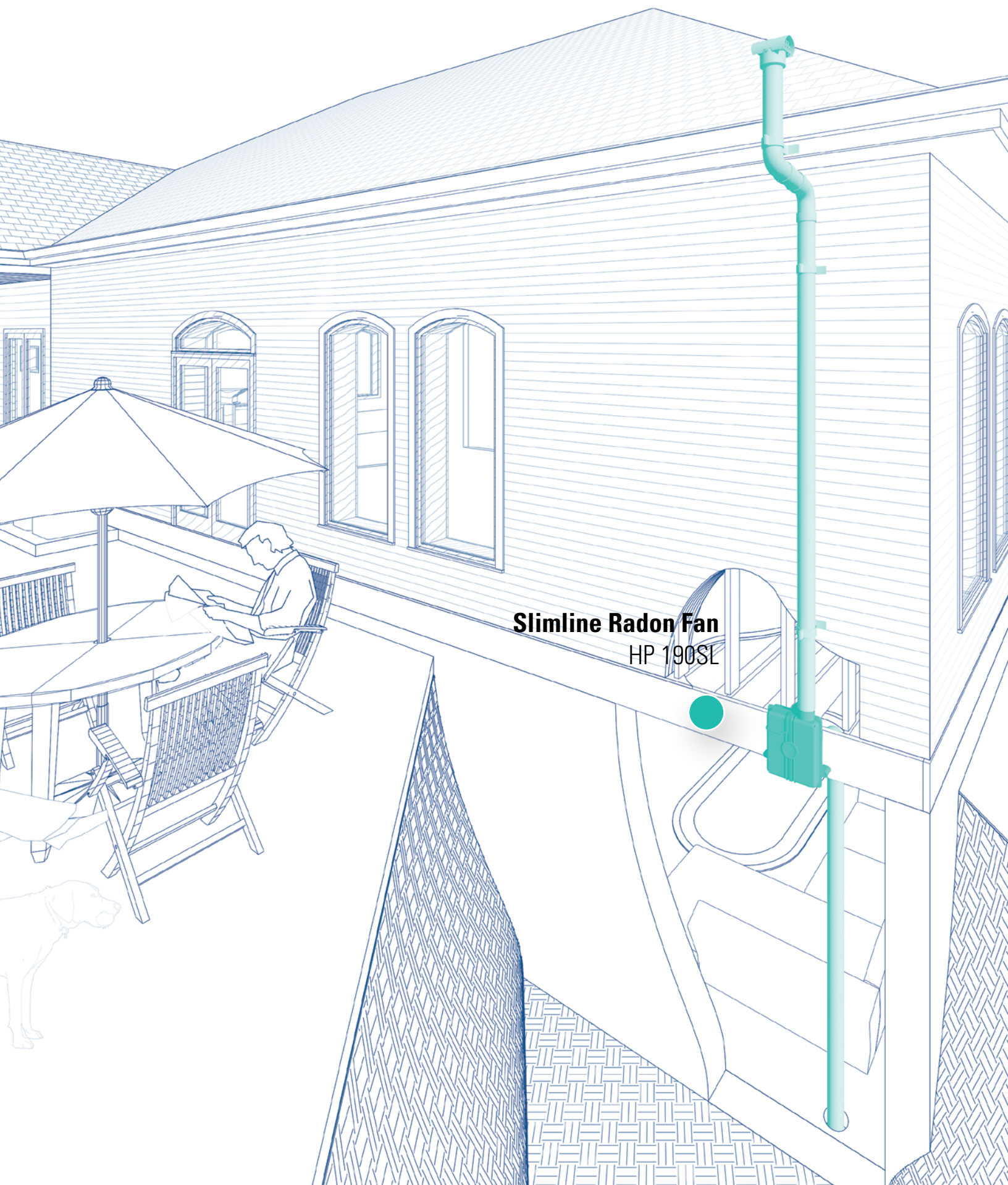
The good news is that reducing the levels is not hard but requires the technical knowledge of a qualified mitigator. Check with your state Radon office for names of qualified or state certified radon contractors in your area. The most popular and common solution is to install a constantly running ventilation system, which pulls radon from beneath the house and extracts it to the outside. This system doesn't require a major change to your home. Sealing foundation cracks and other openings makes this kind of system more effective and cost-efficient.

Radon mitigation standards require that the fan to be placed outside of the living space of the home. In other words, anywhere that is outside the conditioned air space of the heating and air conditioning system. Garages, attics and exterior walls are all commonly acceptable locations for fan placement. The right system depends on the design of your home.

Over 30 years ago, Fantech pioneered the inline fan for Radon mitigation. Backed by a global organization with over 170 research and development engineers, you can trust Fantech to provide ventilation solutions designed for safety and comfort.







**Slimline Radon Fan**  
HP 190SL

# Top ten reasons to choose HP 190SL Slim Radon Fan

## 1. Only 5 inches deep

Low profile, wall-mount design minimizes installation time. Fan and discharge pipe are located on surface of exterior wall eliminating the need for two 45° elbows.

## 2. Electrical box condensate drain

Specifically designed to prevent moisture buildup from condensation.

Don't put your reputation at stake! For over 30 years, Fantech has manufactured quality ventilation equipment for Radon Applications. Fantech is the fan Radon contractors have turned to in over 1,000,000 successful Radon installations worldwide.

### HP190SL

This radon fan is engineered specifically for the demanding environments of radon mitigation applications.



Model	Rated power	Voltage/phase	Max amps	Max. airflow	Max P <sub>s</sub>	Weight	Item #
	W	V / ~	A	cfm	in.wg	lbs	
HP 190SL	88	120 / 1	0.78	159	2.14	12	40564

The performance curves shown in this brochure are representative of the actual test results recorded at Texas Engineering Experiment Station/Energy Systems Lab, a recognized testing authority for HVI. Testing was done in accordance with AMCA Standard 210-85 and HVI 916 Test Procedures.

Fan is attached to PVC pipe using flexible coupling. For 4" PVC pipe use Indiana Seals #156-44, Pipeconx PCX 56-44 or equivalent.

## 10. Conduit connection

Side conduit connection for easy installation and allows for an aesthetically pleasing placement.

## 9. Housing

Manufactured from durable UV resistant polycarbonate - UL approved material for outdoor use. Factory sealed, no leak design. The unit's grey color closely matches the color of most electrical and other utility boxes.

## 8. Direct wall mount

Three integral vibration isolation mounts allow for stable installation in unique applications and provides quiet performance when in use.

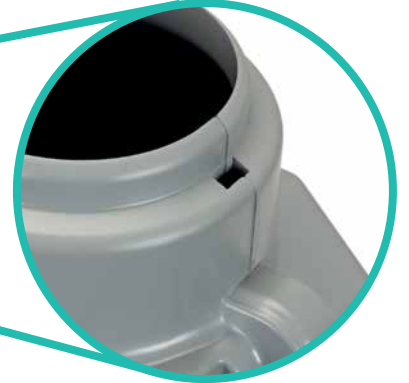
### 3. Ice breaker

To protect the fan wheel in case of condensate freezing and hitting wheel, the ice breaker breaks apart falling ice.



### 4. Integral condensate bypass

Uniquely designed feature keeps moisture away from the motor. Condensation bypasses the motor compartment and drains out at the bottom of the unit.



### 5. Terminal block

For easy wiring installation, the terminal block slides in (no screws). The rubber gasket around the terminal block compartment protects from moisture penetration.



### 6. External rotor-motor

External rotor-motor with backward curved impeller is in airstream thus giving the fan best in class performance, reliability and longevity.



### 7. Inlet elbow

A built-in elbow allows for fan's direct connection to low pressure pipe opening on exterior wall. It eliminates the need for one 90° elbow and one coupling.



# HP Series

## Inline Radon Fans



HP 175 &amp; HP 190

HP Series fans are specially designed with higher pressure capabilities for radon mitigation applications.

- UV resistant, UL Listed durable plastic
- UL Listed for use in commercial applications
- Watertight electrical terminal box
- Totally enclosed for protection
- Automatic reset thermal overload protection

### HP175

The economical choice where slightly less air flow is needed. Often used where there is good sub slab communication and lower Radon levels.

### HP190 and HP2190. The standard for Radon Mitigation.

Ideally optimized performance curve for a vast majority of your mitigations.

### HP220

Excellent choice for systems with elevated radon levels, poor communication, multiple suction points and large subslab footprint

### HP2133

For applications where lower pressure and flow are needed. Record low power consumption of 14-20 W! Often used where there is good sub slab communication and lower Radon levels.

Installations that will result in condensate forming in the outlet ducting should have a condensate bypass installed to route the condensate outside of the fan housing. Conditions that are likely to produce condensate include but are not limited to: outdoor installations in cold climates, long lengths of outlet ducting, high moisture content in soil and thin wall or aluminum outlet ducting. Failure to install a proper condensate bypass may void any warranty claims.

HP 220

HP 2133 &amp; HP 2190

## Specification data

Model	Rated power	Voltage / phase	Max. amps	0.0" P <sub>s</sub>	0.5" P <sub>s</sub>	0.75" P <sub>s</sub>	1.0" P <sub>s</sub>	1.25" P <sub>s</sub>	1.5" P <sub>s</sub>	1.75" P <sub>s</sub>	2.0" P <sub>s</sub>	Max P <sub>s</sub>	Shipping weight	Item #
	W	V / ~	A	cfm								in.wg	lbs	
HP 175	65	120 / 1	0.57	151	112	91	70	40	12	-	-	1.66	1	45047
HP 190	85	120 / 1	0.78	157	123	106	89	67	45	18	1	2.01	7	411297
HP 220	152	120 / 1	1.30	344	260	226	193	166	137	102	58	2.46	8	411349
HP 2133	20	120 / 1	0.17	134	68	19	-	-	-	-	-	0.84	1	45044
HP 2190	85	120 / 1	0.78	163	126	104	81	58	35	15	-	1.93	3	45048

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Fans are attached to PVC pipe using flexible couplings.

For 4" PVC pipe use Indiana Seals #156-44, Pipeconx PCX 56-44 or equivalent. For 3" PVC pipe use Indiana Seals #156-43, Pipeconx PCX 56-43 or equivalent.



## HP 190

### Radon Fan on exterior wall

Radon mitigation standards require that the fan be placed outside of the living space of the home. In other words, anywhere that is outside the conditioned air space of the heating and air conditioning system. An exterior wall is a commonly acceptable location for fan placement.

## HP 2133

### Radon Fan in the attic

Sometimes it might seem impossible to find an aesthetically pleasing location on an exterior wall, so the attic can be an acceptable location for fan placement.

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