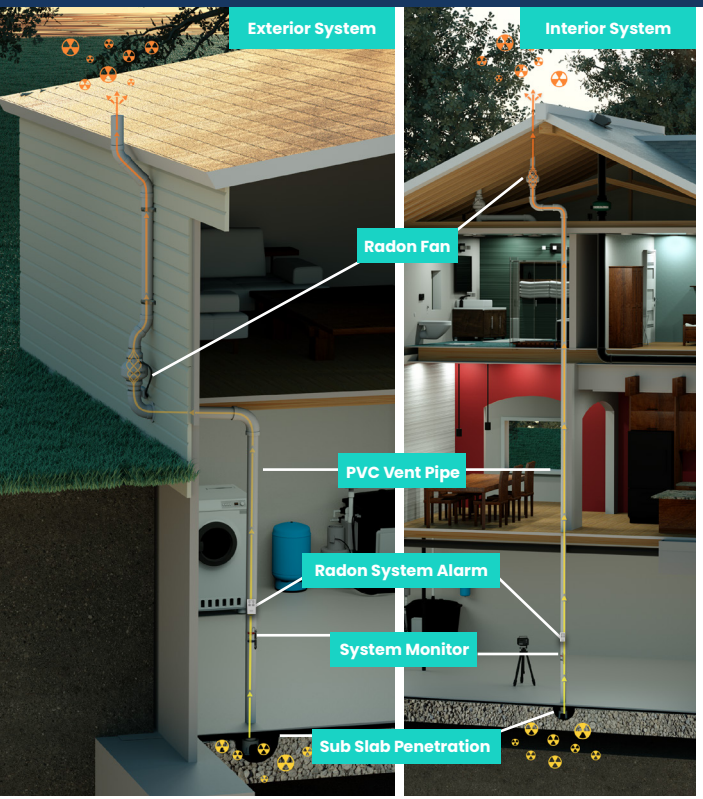
# TYPICAL ASD RADON REDUCTION SYSTEMS




## Overview of the Active Soil Depressurizaton (ASD) Process

**Diagnostic tests** are performed to determine the system design and location. Most retrofit systems are designed for an exterior fan location. New construction systems are more likely to have an interior fan location.

**Sub slab penetration(s)** are made to provide suction points for drawing out the radon gas.

**Sealing** of cracks, sumps and crawlspaces is performed to prevent radon leakage.

**PVC ventilation pipes** are attached and vented in compliance with mitigation standards and codes.

**A radon fan** will be attached to activate the system.

# IMPORTANT RADON SYSTEM INFORMATION

OWNER: RETAIN FOR YOUR RECORDS.

**Instructions:** Complete this form and place it, along with fan instructions/warranty, radon test data, and other system documents in a water-resistant bag. Leave the bag near your radon system.

## Mitigator Information

Company Name _____

Certification/License # _____

Address _____

City, State, Zip _____

Phone _____

Email _____

Website _____

Signature _____

## System Information

Installation Date _____

Testing/Service Dates _____

Fan Model _____

Est. Operating Cost _____

U-Tube Reading _____

Radon Level: Pre-mitigation (if any) _____

Radon Level: Post-mitigation _____

Installer Comments:

**Please see inside for system description.**

NOTE: If you have any questions or problems regarding your radon system, please contact your mitigator.

AprilAire


# RADON REDUCTION SYSTEM OPERATION, MAINTENANCE AND MONITORING (OM&M) MANUAL

**It is the responsibility of the current and subsequent owner(s) to maintain and monitor the radon reduction system.**

Inside is detailed information about how your system works and what you need to know to maintain it in compliance with radon standards. Retain this document for your records.

**aprilaire.com/radon**

# RADON REDUCTION SYSTEM

## Owner: Important radon system information. Retain for your records.

The radon reduction (or mitigation) system installed in your home prevents radon from entering by using a method called Active Soil Depressurization (ASD). ASD is recognized as the best available technology for reducing radon levels in homes and other buildings.

## Basic Principles

See Typical ASD Radon Reduction Systems graphic for more details.

## How It Works

Through the use of PVC pipe and a specially designed radon fan, the ASD system draws in the radon gas, moisture and other soil gases from beneath your home and safely vents them above the roofline. The radon fan is usually located inside in the main attic, garage attic or on the exterior of the home. Note your radon fan's location. IMPORTANT: The fan must run continuously for radon reduction.

**1. Attic location:** The PVC vent pipe extends up through interior walls or the garage, is attached to the fan in the attic, and then vents above the roofline.

**2. Exterior location:** The PVC vent pipe extends through the basement or garage wall to an exterior-mounted fan, then is extended up the outside wall to vent above the roofline.

# SYSTEM OPERATION, MAINTENANCE & MONITORING

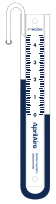
**This document meets the requirements of ANSI/AARST Soil Gas Mitigation Standards for Existing Homes.**

## Check Your System:

In compliance with radon standards, your system should have a minimum of 2 monitors: a passive u-tube type monitor and an active notification monitor.

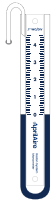
Locate the passive u-tube manometer on your radon system pipe (often in the basement) and check it periodically to monitor the operation of your radon fan.

The active notification monitor alerts you to low radon system vacuum pressure. When an alert sounds, check the radon system to ensure that the fan is operating. If it is not, contact the mitigator.



**Fan is operating when manometer liquid levels are uneven.***

*Levels will vary based on installation and site specifics.



**Fan may not be operating when manometer liquid levels are even.***

*If the fan does not appear to be operating:

- ☑ Check hose connection on gauge.
- ☑ Check electrical (switch or breaker).
- ☑ If neither of the above, call the mitigator.

## Test Your Home:

Because radon levels can fluctuate over time, the U.S. Environmental Protection Agency recommends that you test your home at least every two years. Also test after home renovations, mitigation system alterations or repairs, home ventilation alterations, or any other changes to the home that may affect air distribution or pressure relationships.

## Know Your Installer:

Your radon reduction system installer's contact information is provided on the reverse side of this document. Make sure you keep a record of the installer's name, contact information and date of installation. Keep a copy of your paid invoice and other paperwork provided.

## Estimate Your System Energy Use:

The typical range of costs to operate a radon fan will be between $20.00 and $135.00 per year depending upon the fan model needed at the home. To calculate your electrical cost, obtain your fan model number and go to www.aprilaire.com/radon-calculator.

**To learn more about the mitigation process, ask your radon contractor or go to aprilaire.com/radon.**