



For Radon and Active Dampness Control Systems

INSTRUCTIONS FOR SITE PREPARATION AND INSTALLATION OF ADC-T



www.homeaire.com

Contents of ADC-T Kit



ADC-T

Prepares for Active Dampness Control™ (ADC) and Radon Resistant New Construction (RRNC) systems.



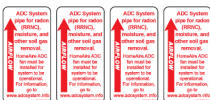
ADC-T Cap

Prevents debris entry and avoids the possibility of mistaking the vent pipe sub for a utility pipe "rough in".



4 Stakes

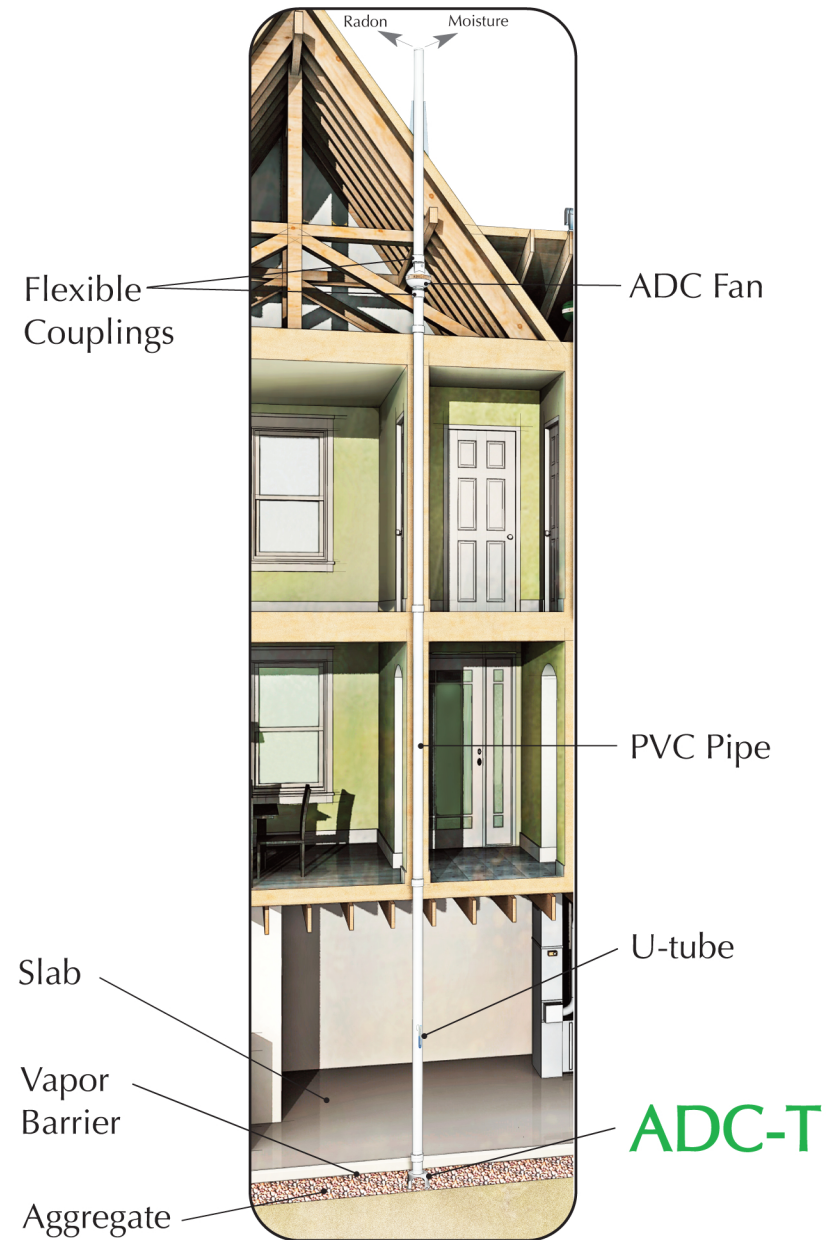
Stabilize the tee in preparation for aggregate fill and slab pour.



Set of System Labels

Four vent pipe labels.

Typical ADC System Installation



See Inside for ADC-T Instructions

Instructions for ADC-T Installation and Site Preparation

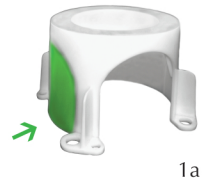
(For more detailed descriptions, go to www.adcsystem.info)

An ADC-T is the unique fitting specifically designed as the important first step taken when installing or roughing in a radon and moisture system during new construction. These instructions provide a quick guide for proper installation. Consult IRC Appendix F, ASTM E-1465 and your state and local codes to determine appropriate compliance.

Prior to Pouring the Slab

ADC-T Installation

- In the location designated for the radon/ADC pipe rough-in, position the ADC-T on a level dirt surface.
 - For optional 4-way air flow, cut out sides of the ADC-T along the indents.
 - If saddling over an internal perforated pipe loop, cut out a small top section of pipe so that the ADC-T fits snugly over the pipe.
- Using the supplied stakes, secure the ADC-T to the ground.
- Glue into the ADC-T a length of 4" Schedule 40 PVC pipe. (Pipe length should allow it to extend a minimum of 6" above finished slab.)
- Insert the supplied ADC-T cap into the top of the PVC pipe. **Do not glue.**
- Save the 4 supplied vent pipe labels for future piping.



1a



2



3,4

Site Preparation

- Uniformly spread a layer of clean aggregate at least 4" thick. The aggregate should be sized to pass through a 2" sieve but not through a 1/4" sieve. (Where gravel is not available, substitute a 4" layer of sand covered by geotextile drainage matting.)
See www.adcsystem.info for more information.
- Install vapor barrier (minimum 6 mil or 3 mil cross-laminated) on top of the aggregate. The barrier should cover the entire floor area and seams should have a 12" minimum overlap.

After Pouring the Slab

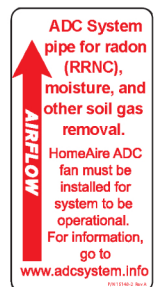
- Fill all large openings in the slab. Seal all joints in the concrete, cap sump pit openings. Floor drains should be trapped or routed to daylight with non-perforated pipe.
- Remove the ADC-T cap. Connect and glue PVC riser with appropriate PVC fittings.
- Route 3" or 4" PVC radon/ADC vent pipe through the structure.

Design reminders:

- Pipe routing should be as straight as possible. Try to avoid 90° angles.
- Avoid "traps" in the piping so condensation can drain to the soil.
- In the attic, leave at least 2 ft clearance around the pipe in all directions, with access to the area for future fan installation.
- Pipe termination must extend at least 12" above the roof surface and at least 10 ft from doors and other openings (including operable skylights) that are less than 2 ft below the termination point.



- Install a wired electrical outlet (120 volt AC) next to the anticipated radon/ADC fan location.
- Affix one supplied radon/ADC label to the pipe at each level of the structure (e.g. basement, first floor, etc.). Be sure the airflow arrows on the labels point away from the slab.



Instructions printed on paper that is Green Seal certified, 15% recycled content and manufactured with Wind Power. HomeAire™ is committed to employing and promoting green practices.