

## Rentals/Temporary and Permanent Installation Tips:

By using a 1-1/2-inch spigot trap adapter and no-hub coupling, the ET117-009 may be removed and the standpipe left in its original condition. You can unscrew the ET117-009 to check flow rates or re-install it at a new location even if a trap adapter or wye and trap adapter combination are permanently glued to the standpipe.

The two trap adapters provided with your ET117-009 will allow you to make a connection to any standpipe configuration encountered: use the close - 1/2-inch MIPT nipple in a threaded female fitting, the spigot adapter in a female slip fitting, and a hub adapter over ABS pipe. The Beveled washer and O-ring are interchangeable, but should not be used together.

### No-Hub connectors:

Ideal for cast iron or non-threaded galvanized steel, Copper, and ABS/PVC Pipe. With the use of non-hub Couplings, it is a simple procedure to splice into any drain line to fabricate a standpipe.

### Note:

In most residential applications, it is permissible to transition from metal to plastic using no-hub couplings; however, some commercial buildings require uniformity of materials throughout the drainage system, such as all no-hub cast iron pipe. For this reason, it is advisable to determine the specific code requirements for each job.

### List of materials useful to have on hand:

(These materials are inexpensive, easy to find, and take up very little space.)

2" No-Hub Coupling	2" ABS/PVC Combination Tee
2" x 1 1/2" No-Hub Coupling	2" x 1 1/2" ABS/PVC Combination Tee
1 1/2" No-Hub Coupling	1 1/2" ABS/PVC Combination Tee
2" ABS/PVC Wye (Hub or Street)	2" ABS/PVC Sanitary Tee
2" x 1 1/2" ABS/PVC Wye (Hub or Street)	2" x 1 1/2" ABS/PVC Sanitary Tee
1 1/2" ABS/PVC Wye (Hub or Street)	1 1/2" ABS/PVC Sanitary Tee
2" ABS/PVC P-Trap	2" ABS/PVC Sch-40 Pipe (5'-10')
1 1/2" ABS/PVC P-Trap	1 1/2" ABS/PVC Sch-40 Pipe (5'-10')
2" x 1 1/2" ABS/PVC Reducer Coupling	ABS Glue
2" x 1 1/2" ABS/PVC Flush Brushing	PVC Primer & Glue
1 1/2" ABS/PVC Street 45 (1/8 Bend)	1" Teflon Tape or Pipe Joint Compound

### Tools useful to have on hand:

- Sawzall Pipe/Tube Cutter or Hacksaw
- Channel Lock or Pipe Wrench
- No-Hub Wrench or Straight Screw Driver
- Tape Measure



MADE IN USA



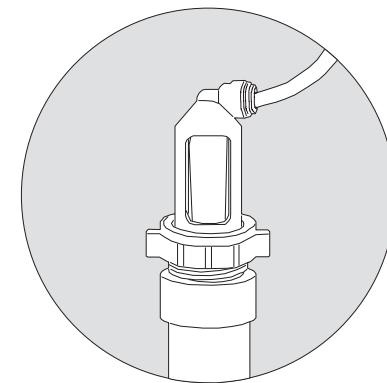
Placentia, California



**Model:  
ET117-009  
1/4-INCH INLET  
1-1/2-INCH OUTLET  
AIR GAP**

MADE IN USA

- For Schedule – 40 Standpipe Installation



**COMPATIBILITY:**  
ET117-009 is not compatible with reverse osmosis faucets with air gap.



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# ET117-009

## Installation Procedures

For Stand Pipe Applications

### LIST OF PARTS ENCLOSED

1 – Drain Line Adapter Airgap with 1/4" Push-In Connection

1 – 1 1/2" Schedule – 40 (Hub x Male Pipe Thread) ABS Trap Adapter

1 – 1 1/2" Schedule – 40 (Spigot x Male Pipe Thread) ABS Trap Adapter

1 – 1 1/2" Slip Joint Wing Nut

1 – 1 1/2" Slip Joint Beveled Washer

1 – 1 1/2" Nitrile O-Ring (for alternate use instead of washer)

1 – Locking clip for 1/4" tube

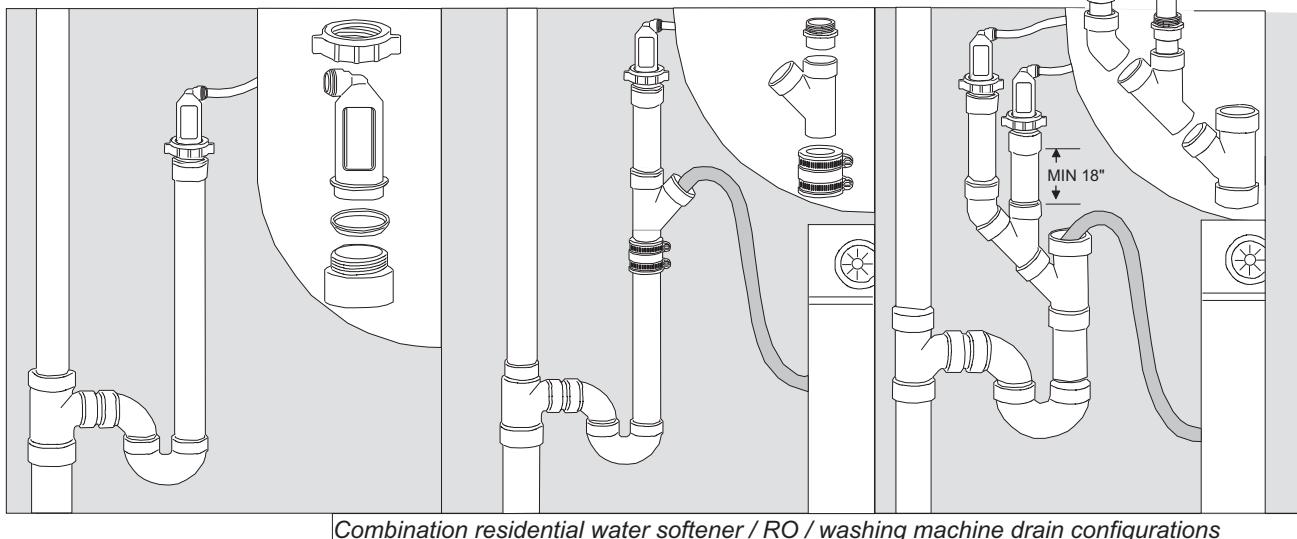
• The ET117-009 provides a true air gap for all Schedule-40 DWV standpipes.

• These instructions are intended for a professional installer. Examples are provided without giving details of every procedure.

To comply with all plumbing code requirements, the standpipe used with an ET117 series must be trapped, vented and fabricated from a Schedule-40 Drain Waste and Vent that has been approved in your area, such as:

ABS, PVC, galvanized steel, copper, or no-hub cast iron with an inside diameter of 1-1/2-inch or greater.

**Below are the three practical standpipe configurations:**



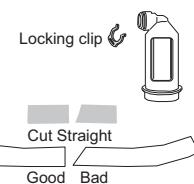
Combination residential water softener / RO / washing machine drain configurations

### Tube installation instruction:

Remove locking clip from collet before tube installation

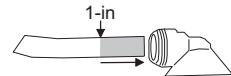
Tubing must be cut straight using a tubing cutter; not a knife.

If the cut is at an angle, the O-ring may not seal properly.



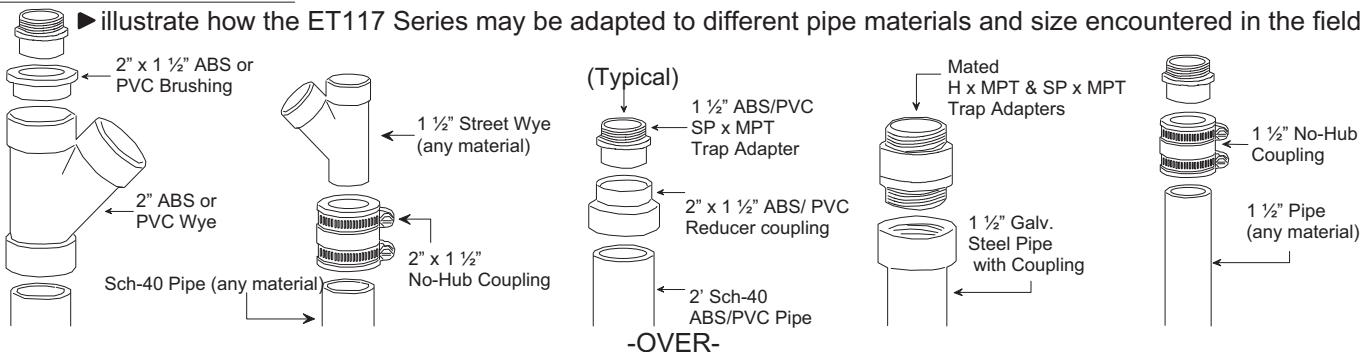
Tubing must be inserted all the way into the air gap, one full inch. It may be necessary to rotate the airgap back and forth while pushing on the tube.

Install Locking clip back after tube installation



### The examples below:

► illustrate how the ET117 Series may be adapted to different pipe materials and size encountered in the field:



-OVER-