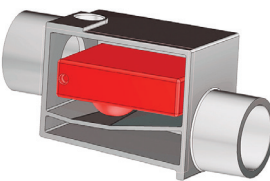



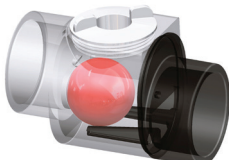


<b>FCN-Series</b>	<b>P-Series</b>	<b>RLC-Series</b>
<p>Compact Residential / Lite Commercial Negative Pressure Waterless Trap</p> <p>Perfect for Ductless Mini-splits</p> 	<p>Positive Pressure Waterless Trap</p> 	<p>Residential / Lite Commercial Waterless Trap</p> <p>Can be used as negative or positive pressure trap</p> 

Scan the QR codes to see animations of the traps

<b>PLP-Series</b>	<b>N-Series</b>
<p>Positive Pressures Ranging from 0 to 40 inches WC</p>  	<p>Negative Pressure Waterless Trap</p> <p>Can be used as negative or positive pressure trap</p>  <p style="text-align: center;">negative pressure      positive pressure</p>

<b>DMS-Series</b>	<b>CHF-Series</b>
<p>Negative and/or Positive Pressure Waterless Trap</p> 	<p>Negative Pressure High-flow Waterless Trap</p> 

N, P, RLC, FCN, DMS, CHF and PLP-Series Air-Traps are Patented



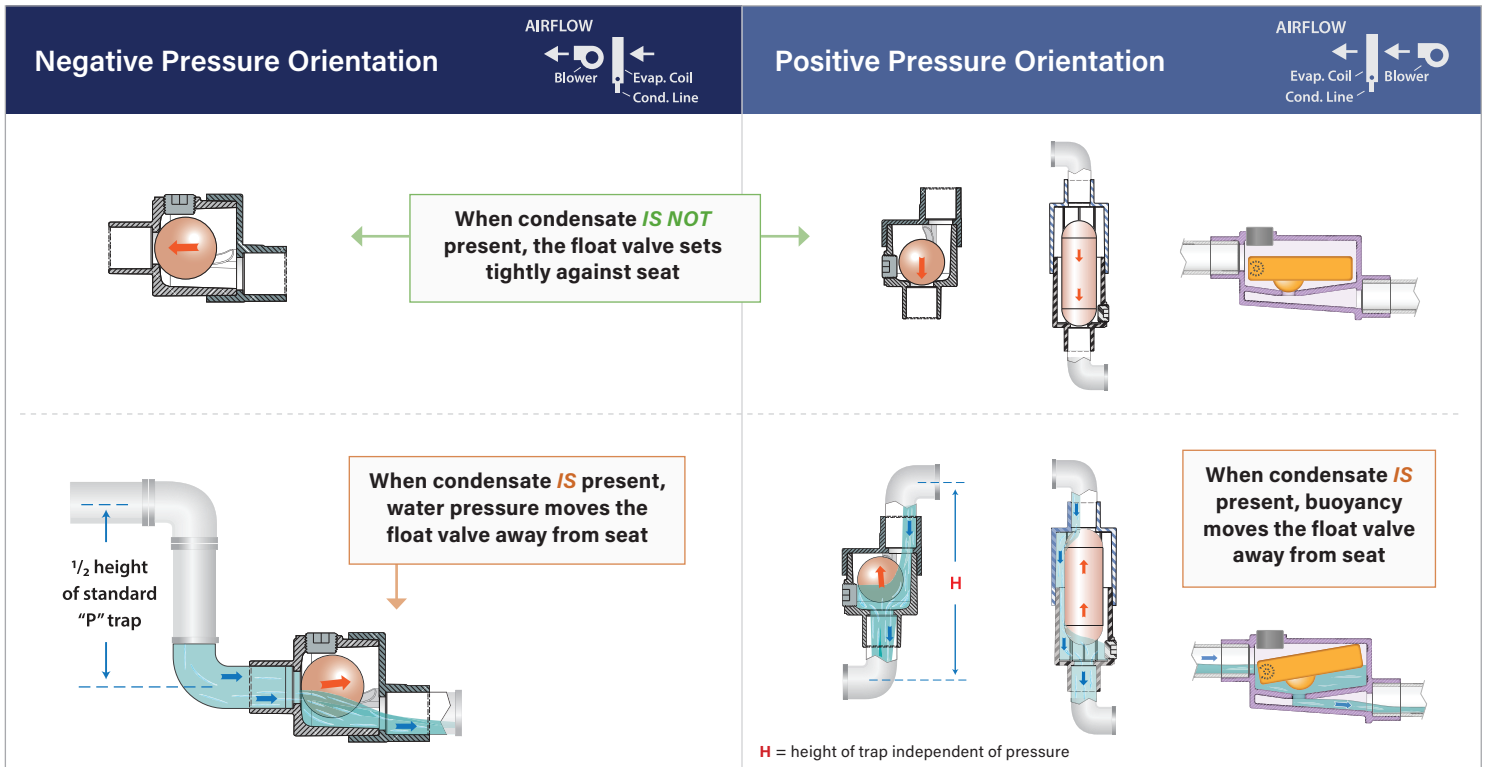
## Sizes and Pressures

Air-Trap Series	Max Negative Pressure of WC (inches)	Max Positive Pressure of WC (inches)	Available Connection Sizes (inches)				Length (inches)
			3/4	1	1-1/4	1-1/2	
<b>P</b>	N/A	12	3/4	1	1-1/4	1-1/2	8
<b>N</b>	20	3	3/4	1	1-1/4	1-1/2	5.6
<b>RLC</b>	20	2.5	3/4	1 (with fitting)			4.65
<b>FCN</b>	5	0.5	3/4	1/2 (with fitting)			2.48
<b>PLP-084</b>	N/A	0 - 40	1-1/2	2 (with fitting)			7.75
<b>PLP-051</b>	N/A	0 - 6	3/4	1 (with fitting)			5.6
<b>DMS</b>	1	5/8	3/4 (25 mm)		5/8 ID Drain Hose		2.95
<b>CHF</b>	20	N/A	1-1/2	2 (with fitting)			4.6

## No More Troublesome “P” Traps

- ▶ *Air-Trap* reduces trap height by up to 60%. A total height equal to the maximum water pressure in inches WC. With negative pressure plenum, the HVAC *Air-Trap* requires less than ½ the height required for P-Trap installation.
- ▶ *Air-Trap* meets all the requirements of the IAPMO IGC 196-2018 that is referenced in the 2024 UMC section 310.4.
- ▶ Built in clean-out port to meet building code IRC section M1411.3.3, IMC Section 307.2.5, UMC Section 312.3.1, which states: “Condensate drain lines shall be configured to permit the clearing of blockages and performance of maintenance without requiring the drain line to be cut.”
- ▶ No more issues caused by traps drying out, does not require filling with water in spring or after extended period of no condensate formation.
- ▶ The *Air-Trap* will never freeze and break.
- ▶ Designed to prevent standing water within the trap and drain line when there is no condensate being produced.
- ▶ *Air-Trap* is predesigned and site proven to prevent field errors.
- ▶ Eliminates sludge build-up at bottom of “U” tube.
- ▶ Prevent the geyser effect with “dry trap” and negative plenum pressure.
- ▶ No more blow through with positive pressure.

## HVAC Air-Trap Concept



## HVAC CONDENSATE CODE UPDATE

Section 310.4 - Condensate Wastes and Control has three approved traps for the 2024 Uniform Mechanical Code

### The three approved traps according to UMC 310.4

①

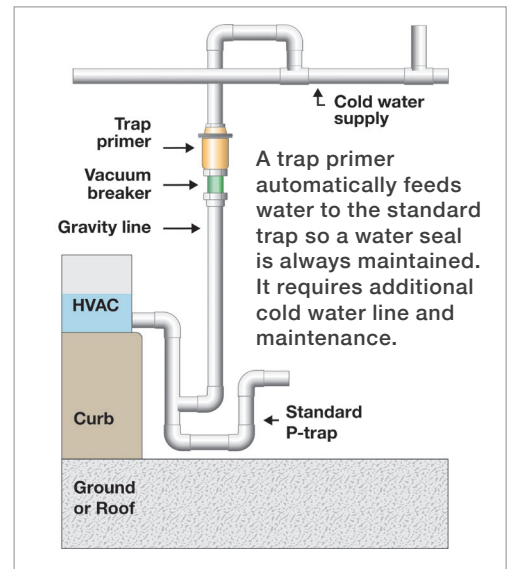
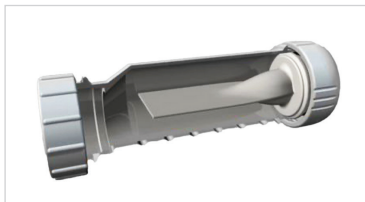
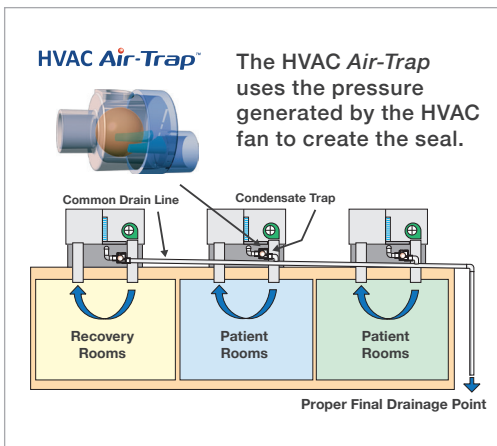
Condensate Trap per IAPMO IGC 196

②

Sanitary Waste Valve per ASME A112.18.8

③

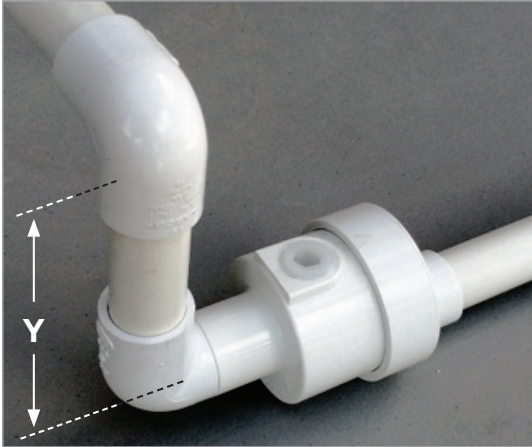
P-trap shown with Required Trap Primer per Proposed 2024 Universal Mechanical Code



**Note:** The drawings within this catalog represent traps that operate under negative or positive pressure. **Never connect condensate drain directly to a sanitary drain line.**

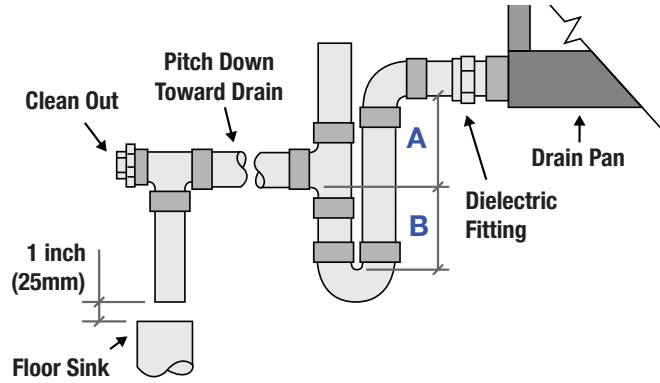


## HVAC Air-Trap and Standard P-Trap Required Space Comparison



Dimension **Y** = negative pressure in inches of WC.

Drain line shall be at least the same size as the nipple on the drain pan. Piping shall be rigid copper Type L or Type M unless note below is met.



Plenum Pressure inches of WC	Standard P-Trap	HVAC Air-Trap™	Difference
	Minimum Required Height, Y	Minimum Required Height, Y	
1	4	2	2
2	6	3	3
3	8	4	4
4	10	5	5
5	12	6	6
6	14	7	7
7	16	8	8
8	18	9	9
9	20	10	10
10	22	11	11

Measurements in inches

Unit Type	A	B
Draw Thru	2" (50mm) plus X	X
Blow Thru	1" (25mm) minimum	2X

Where X = Static Pressure in Pan

Total height of the *Air-Trap* is only the height of the negative pressure plus one inch for safety and not 2 times negative pressure plus two inches.

*The table is for negative pressure systems since no water head is required for the Air-Trap in positive pressure systems.*



To purchase or learn more, please visit:

[waterless-trap.com](http://waterless-trap.com)



ICC-ES  
Evaluated



The *Air-Trap*™ concept has been incorporated into IAPMO IGC 196-2018 Standard for Condensate Traps and Overflow Switches for Air-Conditioning Systems.



2 Nikki Lane  
Natural Bridge Station, VA 24579  
Phone: 540.228.1967  
info@deschampstechnologies.com  
Instagram: @trapqueen\_deschamps

For more information and purchase options please visit [waterless-trap.com](http://waterless-trap.com) or [deschampstechnologies.com](http://deschampstechnologies.com)