

**For Residential, Commercial and Snowmelt Applications**

Job Name \_\_\_\_\_  
 Job Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Approval \_\_\_\_\_

Contractor \_\_\_\_\_  
 Approval \_\_\_\_\_  
 Contractor's P.O. No. \_\_\_\_\_  
 Representative \_\_\_\_\_

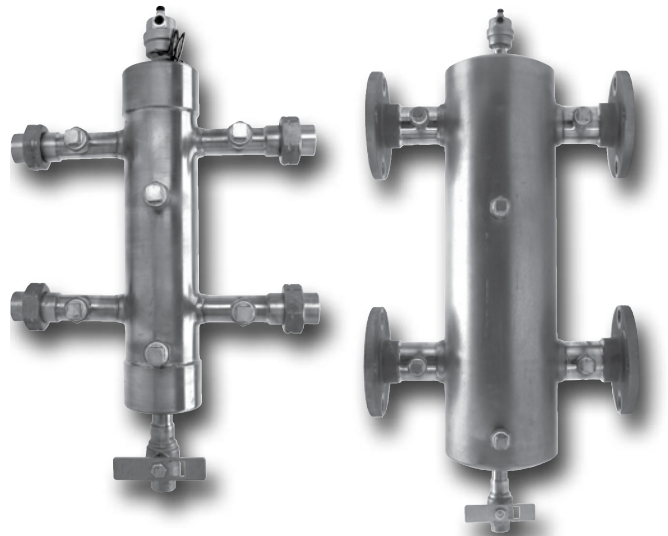
# Hydraulic Separator

**Sizes: 1", 1-1/4", 1-1/2", 2", 2-1/2"**

Watts Radiant Hydraulic Separator is designed to decouple the primary loop flow from the secondary, impede particle and sediment movement through a system, and to act as a point of air removal.

## Specifications

Materials		
<b>Connections</b>		
	1", 1-1/4", 1-1/2"	Sweat Unions
	2", 2-1/2"	4" ANSI Flange
	1/2", 3/4"	Expansion Tank Taps
<b>Separator Body</b>	Type-L Copper	
<b>Internal Screen</b>	Stainless Steel	
<b>Air Vent (1/4")</b>	Brass	
<b>Drain</b>	3/4" Brass Valve	
Performance		
<b>Max. Operating Pressure</b>	100 psi	
<b>Max. Operating Temperature</b>	210°F	
<b>Operating Fluid</b>	Water 50% Water/Glycol	



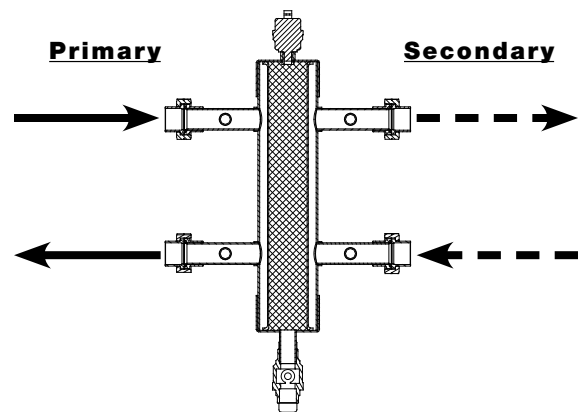
Hydraulic Separator

Description	Model #	Order #
1" Hydraulic Separator, Sweat Union	HSEP100-U	81010007
1-1/4" Hydraulic Separator, Sweat Union	HSEP125-U	81010008
1-1/2" Hydraulic Separator, Sweat Union	HSEP150-U	81010009
2" Hydraulic Separator, ANSI Flange	HSEP200-F	81010010
2-1/2" Hydraulic Separator, ANSI Flange	HSEP250-F	81010011

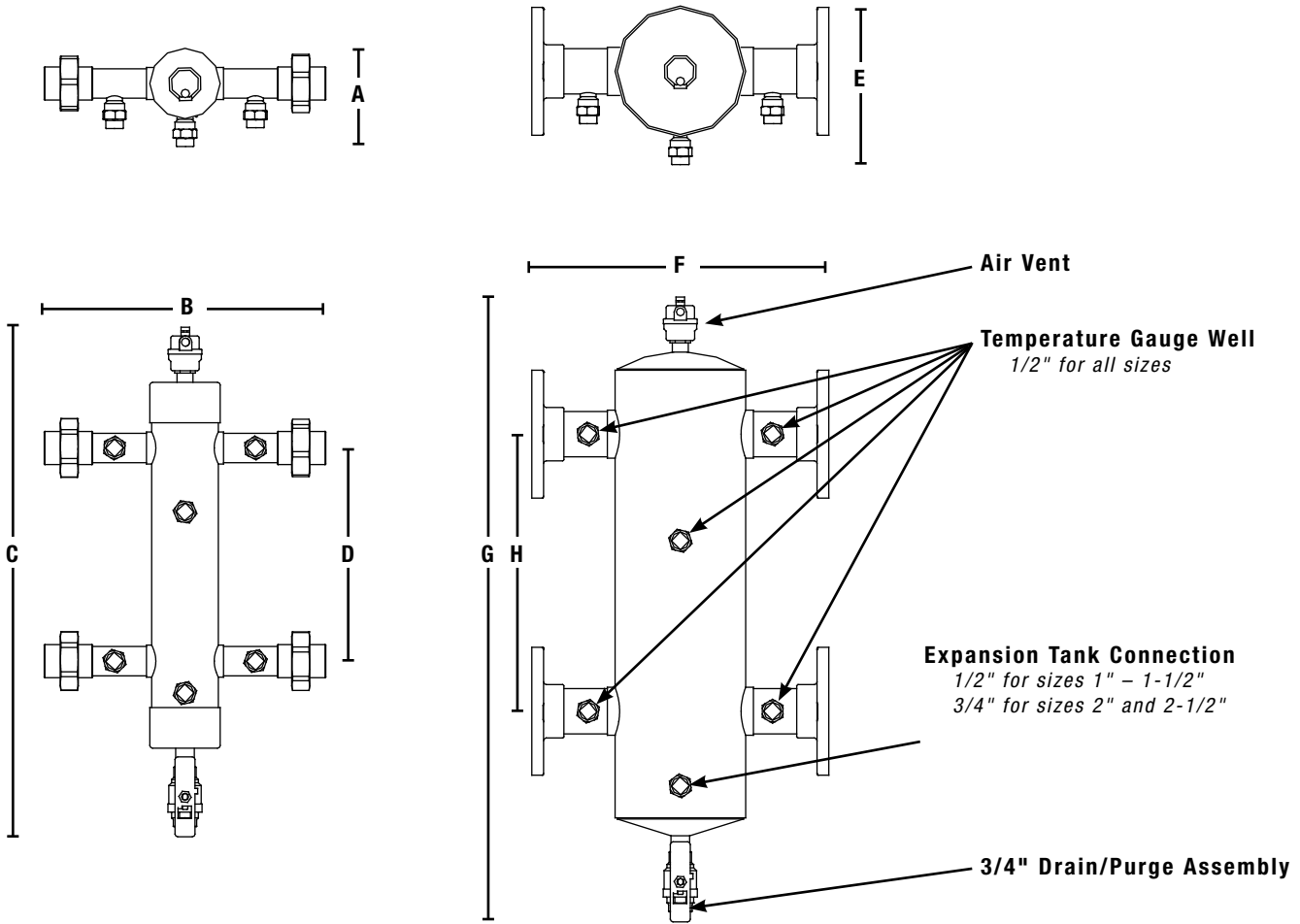
## Installation and Operation

Install the Hydraulic Separator in the vertical position, with the air vent located at the top of the unit. Support the separator with corresponding sized pipe hangers, or other suitable bracket.

Flow through the hydraulic separator is dependent on the resulting pressure differentials created by the circulators on either side. Circulators should always be arranged in a counter-flow orientation.



Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



Unit Dimensions										
Size	Order #	Max Flow Rate	A	B	C	D	E	F	G	H
1"	81010007	11 gpm	4.62 in.	12.80 in.	20.92 in.	7.00 in.				
1-1/4"	81010008	18 gpm	4.62 in.	13.20 in.	23.90 in.	10.00 in.				
1-1/2"	81010009	26 gpm	5.63 in.	14.55 in.	25.92 in.	10.50 in.				
2"	81010010	40 gpm					7.44 in.	13.92 in.	29.31 in.	13.00 in.
2-1/2"	81010011	80 gpm					7.44 in.	16.12 in.	32.31 in.	16.00 in.

