

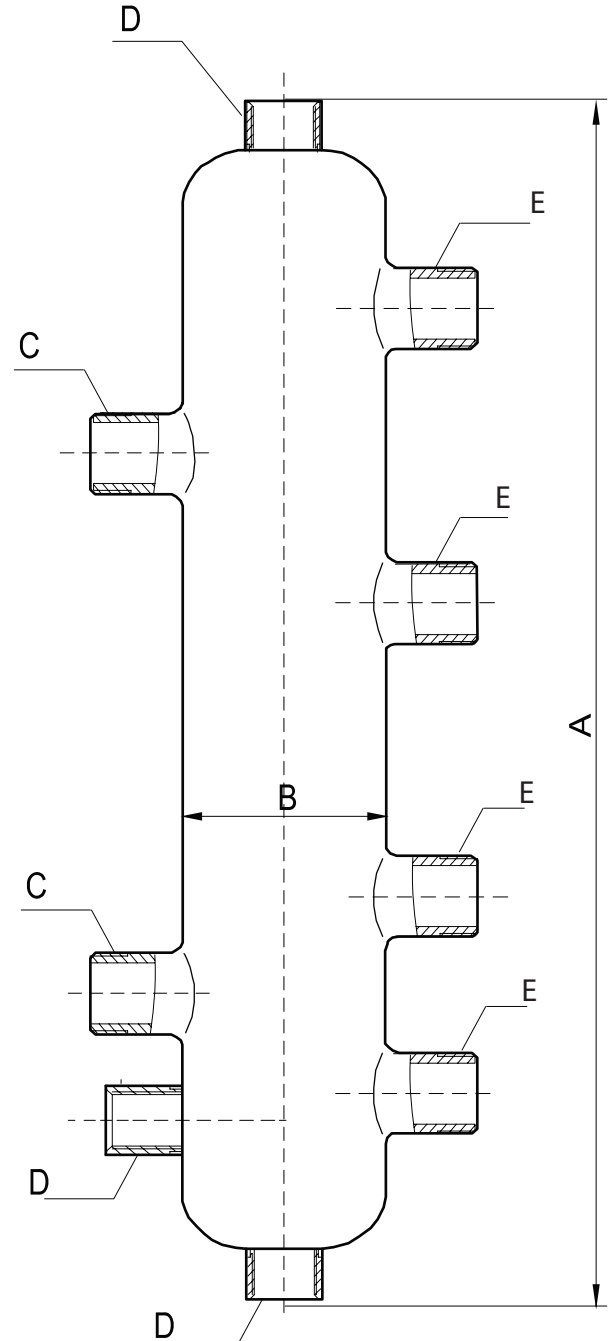
2-way Hydraulic Separator

• SSE-HS-2-125-100 with 1-1/4" - 1" MNPT

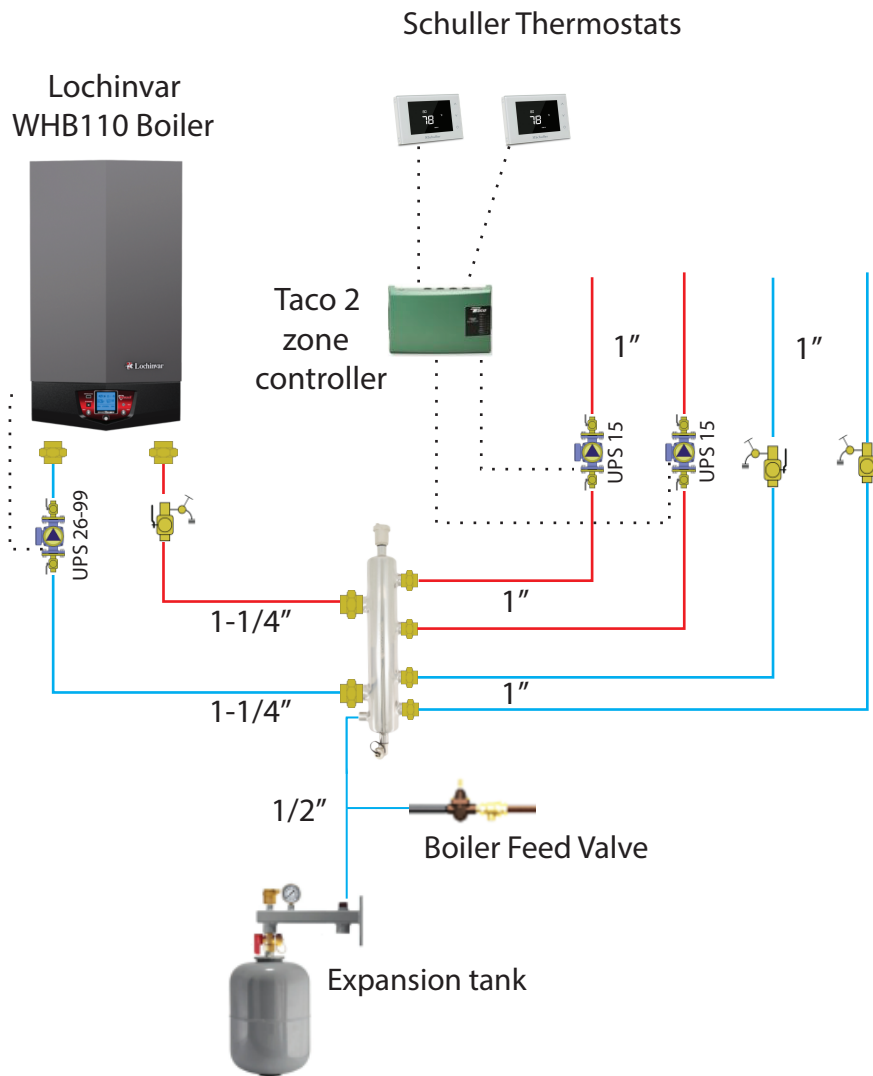
- 300 Stainless Steel internal baffle
- 1/2" FNPT top air vent connection
- 1/2" FNPT bottom drain connection
- 1/2" FNPT side inlet supply connection

Input: 16.3 GPM Max
240,000 BTU Max

Output (x2): 10.9 GPM Max
160,000 BTU Max



MODEL NUMBER	A	B	C	D	E
SSE-HS-2-125-100	17-3/4"	3"	1-1/4" MNPT	1/2" FNPT	1" MNPT



In this use case scenario, we have a small central heating system. Since this particular design is for two areas of radiant heating, we used our two-way hydraulic separator. Our separator is a convenient and easy way to feed the zones, and by splitting the main boiler loop and the zone loops we can reach equilibrium in the system in less time and fittings than other traditional methods. Our hydraulic separator also features a convenient port for tying in the expansion tank and boiler feed valve/glycol feeder. It also helps balance the system's delta-T and pressure. Essentially, a hydraulic separator can be used in lieu of closely spaced Tee's. However, unlike a closely spaced Tee, it can be used to separate the primary and secondary circuits. This allows them to work independantly from each other.

In a hydronic heating system, the hydraulic separator performs several crucial roles, however the most important is the de-coupling of Primary and Secondary Circuits. In traditional systems, the boiler and the radiators (or other heat emitters) are tightly coupled, meaning that changes in demand on one side directly affect the other. This can lead to inefficiencies, particularly in systems with zones that have different heating needs. A hydraulic separator de-couples these circuits, allowing them to operate independently and maintain the desired flow rates, regardless of changes in demand.