

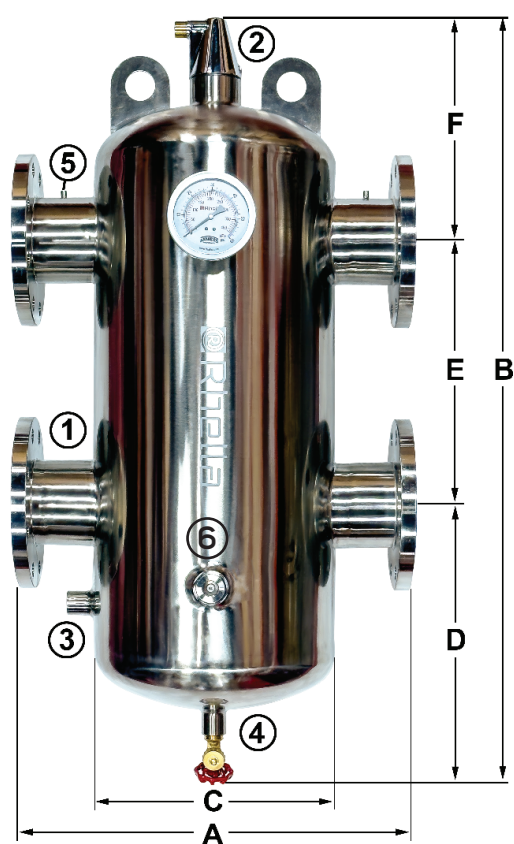


4" & 6" 4-in-1 Hydraulic Separators - Flanged

• ANSI 150 Flange Connections With 2" TACO 4900 Air Vent

Included:

- 1 x Hydraulic separator
- 1 x TACO 4900 Air Vent
- 1 x 0-60 psi Pressure gauge
- 1 X Fill port plug
- 1 x Dirt magnet
- 1 x Drain valve



1. Connection - Flange Size
2. Air Vent Port 2" FG
3. Fill Port 3/4" FNPT
4. Drain Port
5. Sensor Dry-Well
6. Removable Dirt Magnet

Rhella 4-in-1 Hydraulic Separators are engineered to protect hydronic heating and cooling systems from the harmful effects of entrained air, suspended debris, and ferrous contaminants while decoupling primary and secondary circuits. Constructed from high-grade 304 stainless steel, the hydraulic separator provides excellent corrosion resistance, durability, and long-term reliability in both heating and chilled-water applications.

Benefits:

- **Improved System Efficiency:** Removing entrained air, suspended debris, and ferrous contaminants helps maintain clean heat-transfer surfaces and hydraulic passages. This supports efficient operation of heat exchangers, boilers, radiators, and other hydronic system components. The removal of contaminants also helps reduce abrasive wear and air-related operating issues affecting circulator pumps, impellers, and mechanical seals.
- **Hydraulic Separation:** Decoupling the primary circuit from secondary circuits ensures steady primary flow, prevents flow-rate conflicts between secondary circuits, prevents pressure shocks.
- **Corrosion Control:** Removing oxygen-rich air and ferrous corrosion products from the circulating fluid helps reduce conditions that contribute to oxidation and corrosion within the hydronic system.
- **Simpler Maintenance:** The integrated automatic air vent, magnetic separator, collection chamber, and service drain simplify routine system maintenance and reduce the need for manual air purging and system cleaning.
- **Integrated Fill Port:** A dedicated side connection serves as a convenient port for the expansion tank and system fill. This point of no pressure change is optimal for an expansion tank to connect to, eliminating the need to source and install a separate fill tee elsewhere in the piping network, simplifying installation and reducing potential leak points.
- **Advanced Air Elimination:** Internal 304 Stainless Steel Pall Rings act as a high-efficiency coalescing matrix, aggregating micro-bubbles into larger ones. These are automatically discharged through an automatic air vent.

Dual-Stage Debris Removal:

- **Dirt Filtration:** The controlled flow velocity allows suspended dirt and non-magnetic particles to settle at the bottom of the unit for easy removal via the service drain.
- **Ferrous Contamination:** An integrated, removable M50 grade Neodymium magnetic rod captures ferrous particles, preventing abrasive wear on pumps and valves.

Technical Specifications:

- Material: 304 stainless steel body, Pall rings and internals
- Connections: 4 x ANSI B16.5 Class 150 Flanges
- Magnet: M50 grade Neodymium rod, 12,000 gauss, temperature rated to 90°C
- Maximum Operational Pressure: 150 PSI (10 bar)
- Maximum Operation temperature: 210°F (99°C)
- Fluids: Water, Max. 50% Glycol

Flanged Connection Models With 2" TACO 4900 Air Vent

Model# SKU	Dirt Magnet	Pall Rings	1. Size	4. Drain Port	Flow GPM	Dimension - mm						Weight		Shipping Weight
						A	B	C	D	E	F	lb	kg	
LLH400P	✓	✓	4" Flange	3/4" FNPT	260	525	1045	320	370	350	325	114	52	161 lb / 73 kg
LLH600P	✓	✓	6" Flange	1" MNPT	570	760	1475	460	550	500	425	216	98	260 lb / 118 kg