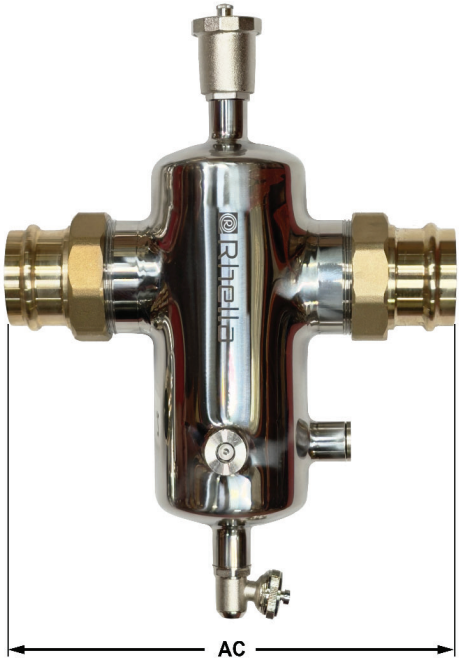
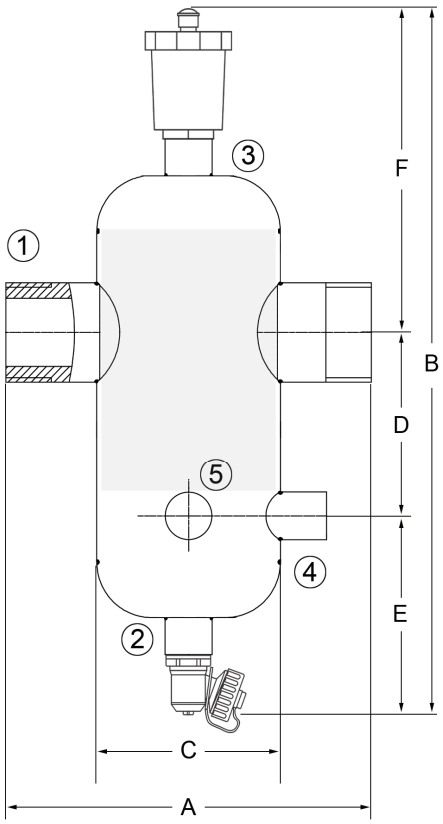
3 in 1 Stainless Steel Air Separators

- Union Connections





1. Connection - Pipe Size
2. Drain Port 1/2" FNPT
3. Air Vent Port 1/2" FG
4. Fill Port 1/2" FNPT
5. Removable Dirt Magnet

Rhella 3-in-1 Air & Dirt Separators are engineered to protect hydronic heating and cooling systems from the harmful effects of entrained air, suspended debris, and ferrous contaminant. Constructed from high-grade 304 stainless steel, the air 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.
- **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 integrated design eliminates 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 .
- **Low Maintenance Design:** 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

Technical Specifications:

- Material: 304 stainless steel body, Pall rings and internals
- Union connections with FNPT, SWEAT or Press nipples (specify when ordering)
- M50 12,000 gauss neodymium rod magnets rated to 90 °C
- Maximum Operational Pressure: 150 PSI
- Maximum Operation temperature: 210°F
- Fluids: water, max. 50% glycol

Included:

1 x Air separator
1 x Automatic air vent
1 x Dirt magnet
1 x Drain

Union Connection Models

Model# SKU	Dirt Magnet	Pall Rings	1. Size	Flow GPM	Dimension - mm							Weight	
					A	AC	B	C	D	E	F	lb	kg
AIR075P	✓	✓	3/4"	6	135	222	290	63	56	100	134	6	2.7
AIR100P	✓	✓	1"	10	135	228	296	64	58	100	138	2.2	1.1
AIR125P	✓	✓	1-1/4"	15	151	244	306	77	58	100	148	3.4	1.5
AIR150P	✓	✓	1-1/2"	22	162	265	372	90	100	100	172	7.2	3.3
AIR200P	✓	✓	2"	39	178	292	378	102	100	100	178	6.0	2.8