



Get a Grip on Air Elimination

DISCAL®

AIR SEPARATORS

“We started using Caleffi DISCAL air eliminators a few years ago with great success. Caleffi has a wide line of components that add value to my installations.”

*Dave Mattioni
Mattioni Plumbing & Heating
Downingtown, PA*

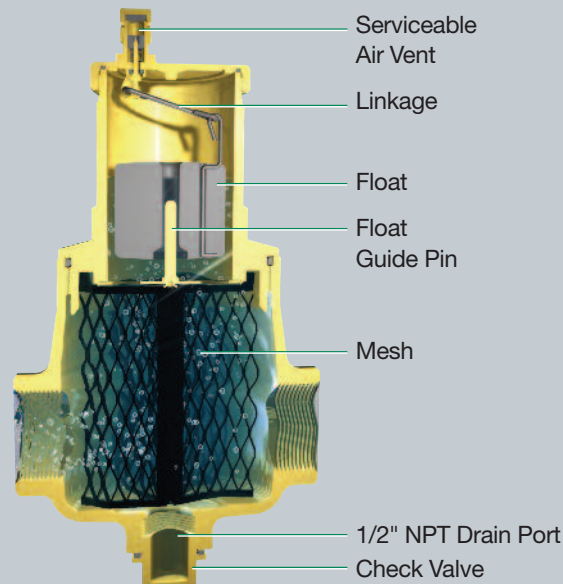
“Installing DISCAL is very simple and easy, including the expansion tank connection. System startup goes fast with DISCAL’s immediate air elimination performance.”

*Phil Lorum
Service Manager
Stramowski Heating Inc.
Oak Creek, WI*



Caleffi DISCAL Advantages

- **Anti-Corrosion Coalescing Mesh** — Resistant to oxygen and acidic boiler water. No corrosion in the coalescing chamber.
- **Large-Diameter Bowl** — Combines with the concentric mesh surfaces to create the air elimination process.
- **Anti-Rotation/Anti-Vibration Pinned Float** — Eliminates float sticking due to boiler residue. or to variations in installation orientation. Operates quietly.
- **Robust Stainless Steel Float Linkages** — Corrosion-resistant, reliable float alignment.
- **Optional Service Check Valve** — Allows expansion tank removal on an active system.
- **150 psi, 250°F Rated** — Handles high-temperature, high-pressure systems.



DISCAL – High-Performance, Long-Lasting Air Elimination

Feature Comparison

Model Type/Description	Caleffi DISCAL	Spirotherm Spirovent Jr.	Honeywell (Sparco) Supervent	Taco 4900	Taco Vortech	The Caleffi Advantage
Body Material	Brass	Brass	Brass	Brass	Cast Iron	Brass is ideal for hydronic heating systems because it is not susceptible to corrosion.
Coalescing Medium Type	Reinforced Nylon Mesh,* Angular Diamond Pattern	Copper Woven Wire	SST Wire Brush	SST Pall Ring	NA	Noncorrosive. Anti-electrolysis materials are resistant to oxygen and acidic boiler water. Impervious to galvanic dielectric corrosion.
Float Guide Pins	Yes	No	No	No	Yes	No jamming of float due to nonvertical installation or boiler residue buildup.
Temperature Rating to 250°F	Yes	Yes	No	No	No	Handles high-temperature hydronic systems.
Float Linkage Construction	SST Pinned Linkages	SST	Steel	SST	SST	Noncorroding, reliable float alignment with robust linkage and lever mechanism.
Long Float Chamber (Large "Air Cushion")	Yes	Yes	No	No	Yes	Prevents debris from reaching the sealing seat of automatic air release valve.
Spring-Operated Automatic Air Venting Mechanism With Straight Motion	Yes	No	No	No	No	Reliable positive shutoff. Nonclogging vent eliminates callbacks due to fouling of air valve.
Access to Air Venting Moving Parts From Top	Yes	No	Yes	No	Yes	The moving parts that control the air venting are accessed simply by removing the upper cover.
Coalescing Medium Locked in Place	Yes	Yes	No	No	Yes	Coalescing medium will not move out of the system flow during maintenance. Tight-fitting medium minimizes vibration and noise.
End Connections	NPT & SWT	NPT & SWT	NPT & SWT	NPT only	NPT & SWT	Application installation flexibility.
Size Range	3/4 - 2" NPT 3/4 - 1-1/4" SWT	3/4 - 1-1/2" NPT 1 - 1-1/4" SWT	3/4 - 1-1/2" NPT 3/4 - 1-1/4" SWT	3/4 - 2"	3/4 - 1-1/2"	Application installation flexibility.
Bidirectional Flow	Yes	Yes	Yes	No	Yes	Easier retrofit installation.

* 3/4" Compact is Stainless Steel.

Cross Reference for Competitive Models

Model Type/Description	Caleffi Order Code	Spirotherm Spirovent Jr.	Honeywell (Sparco) Supervent	Taco 4900	Taco Vortech
DISCAL Air Separators - Brass - Compact					
3/4" NPT Female	551003A	VJR075TM	PV075	49-075	VRTX075
3/4" Sweat	551022A	VJS075FT	PV075S	49-075	—
DISCAL Air Separators - Brass - NPT					
3/4"	551005A	VJR075TM	PV075	49-075	VRTX075
1"	551006A	VJR100TM	PV100	49-100	VRTX100
1-1/4"	551007A	VJR125TM	PV125	49-125	VRTX125
1-1/2"	551008A	VJR150TM	PV150	49-150	VRTX150
2"	551009A	VJR200TM	PV200	NA	VRTX200
DISCAL Air Separators - Brass - Sweat					
1"	551028A	VJS100TM	PV100S	49-100	—
1-1/4" Sweat	551035A	VJS125TM	PV125S	49-125	—



Also available in sizes 2" - 6".
Threaded and Flanged, ASME Registered.

For detailed specifications, visit us at: www.caleffi.us

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