

### Optimum deaeration combined with energy retention.

For total elimination of air from heating and cooling installations. Air separators increase comfort and improve the yield. Air separators also offer benefits in the event of application in old systems or when an open system is converted to a closed system.

- Increases comfort and yield.
- The removal of air from the system water extends the service life of pumps, control equipment and other system accessories.

The new steel Flamcovent Smart air separators remove even the tiniest micro-bubbles from the installation water. The Smart performs 60% better than conventional air separators whilst the flow resistance has been reduced to a negligible level.

- With flanged connection according to EN 1092-1 PN16.



### Advantages

- Up to 60% better performance compared to conventional air and dirt separators.
- Extremely low flow resistance resulting in less energy consumption.
- Standard flow speed up to 3 m/s.
- Constant performance during the entire lifespan.
- Low maintenance.

### Technical Specifications

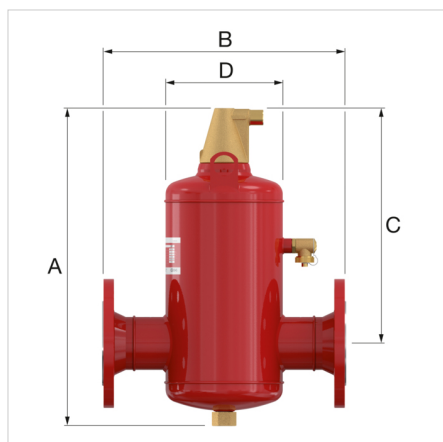
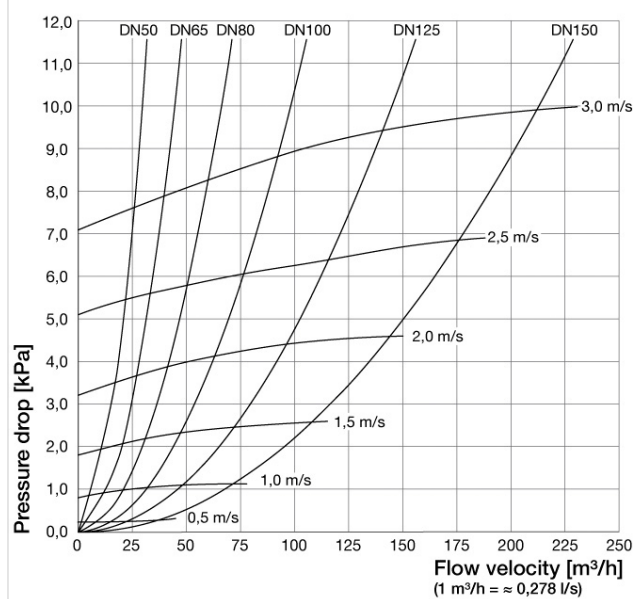
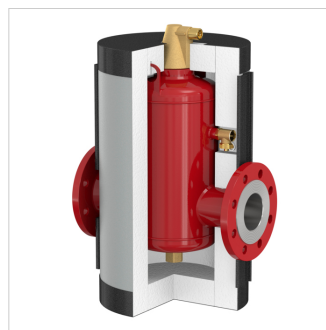
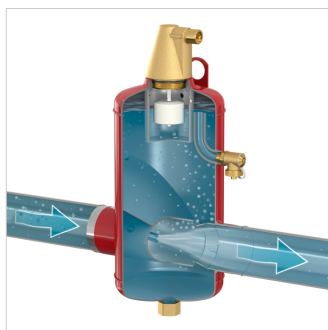
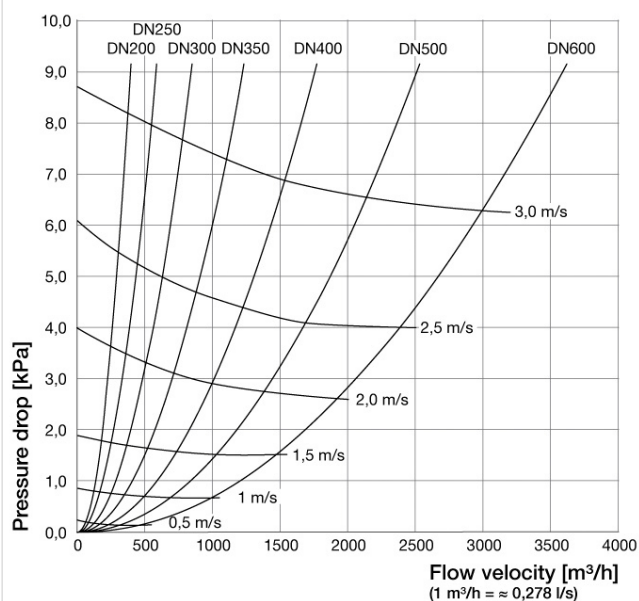
- Maximum working pressure: 10 bar.
- Models with a maximum working pressure of 25 bar are available upon request.
- Suitable for systems with a maximum flow temperature of 120 °C.
- Suitable for glycol solutions of up to 30%.
- In accordance with Pressure Equipment Directive 2014/68/EU.

Description		Flamcovent Smart F DN50
Order Code		31001
GTIN		08712874310018
Model		<u>Flamcovent Smart F - 10.0 bar</u>
Capacity [l]		8
Connection	[DN]	50
	[mm]	60.3
Dimensions	A [mm]	472
	B [mm]	350
	C [mm]	338
	D [mm]	175
$K_v^* [m^3/h] (\Delta P = 1 \text{ bar})$		93
Weight [kg]		14

\*  $K_v = Q / \sqrt{\Delta P}$  Q: Flow [ $m^3/h$ ]  $\Delta P$ : Pressure loss over the product (1 bar)  
Flow factor  $K_v$ : Rate of flow [ $m^3/h$ ] which results in a 1 bar pressure drop across the product. This is different then the maximum allowed flow rate of the product.

\*\* 4 hole flanged version.




**Selection table DN 50 - DN 150**

**Selection table DN 200 - DN 600**


**Classification General Data**

Etim Group	Filters/separators
Etim Class	Air-/dirt separator
Product Name	Flamcovent Smart F DN50
Brand	FLAMCO
Product Type	Smart Air & Dirt (≥DN50)
Order Code	31001
GTIN	08712874310018

**Attributes**

Material	Steel
Separator type	Air
Model	Horizontal
Material of connection	Steel
Material quality connection	Other
Housing material	Steel
Housing material quality	Other
Variable flow direction	No
Suitable for heating	Yes
Suitable for cooling	Yes
Suitable for solar	No
Nominal diameter	DN 50
Outer pipe diameter	60.3 Millimetre
Connection	Flange
Operating principle	Other
Flange standard	DIN
Construction length	350 Millimetre
Article compression class	PN 10
With blow-off valve	Yes
Surface protection	Untreated
Whirl operating principle	No
Negative pressure operating principle	No
Magnet operating principle	No
Thrust operating principle	Yes
Partial flow principle	Yes
Principle full flow with settling	No
Max. medium temperature (continuous)	120 Degrees celsius
Cleaning possible during operation	No
Magnet location	None
Flow-through capacity	0 - 30.54 m³/h
Suitable for open system	No
Suitable for closed system	Yes
Max. operation pressure	10 Bar
With drain valve	No
With dismountable filter	No
Filter volume	0 Litre
Filter mesh density	0 Millimetre
Backwash filter	No
Min. pressure for back flush	0 Bar
With automatic de-aerator	Yes
With couplers	No
Inlet/outlet offset distance	0 Millimetre
Medium temperature (continuous)	0 - 120 °C
Max. operating pressure	10 Bar
Kvs value	0
With insulation	No
Heat conduction coefficient insulation material (λ)	0 Watt per meter Kelvin
Max. glycol mixture	50 Percentage

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With integrated replenishment    No  
automat

**Find more information online:**[Installation and operating instruction](#)[Statement of Conformity \(<= DN 200\)](#)[Flamcovent Smart F ADSK](#)[Flamcovent Smart F RFA](#)[Flamcovent Smart F DWG](#)[Flamcovent Smart F IPT](#)[Flamcovent Smart F STEP](#)[Smart DN50 - 600 Brochure](#)[Specification Text](#)[Packaging data](#)[Flamcovent & Clean Smart](#)[Flamcovent & Clean Smart](#)

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