



Product information

Automatic air-/particle separator of steel. Gas-/particle separator and dirt protection mechanism.

Dimension range (DN)	50 - 300
PN	10
Temperature (°C)	0 - 110
Main material	Steel



Area of use

Exvoid TW for automatic air separation of heating and cooling systems where the fluid is water. Can be mounted in systems with a mix of water/glycol (max 50% concentration), if control and oversight is increased. The valve should not be used in systems with a mix of water/salts. Separates effective microbubbles.

Tender text

PSF.141 Traps for air

AT 8070-... automatic air separator in steel, PN10, with a large air chamber and dirt protection mechanism.

Quality assurance

AFS 2023:5, PED 2014/68/EU

Fulfills the AFS 1999:4, 8§ standards and shall not be CE-marked. All separators are functional- and density tested.

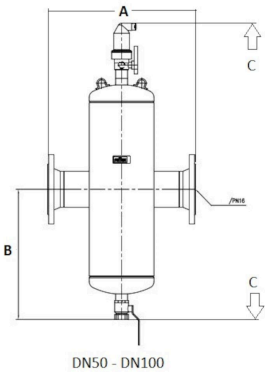
Product marking: Marked with dimension, max. operating pressure, max. operating temperature and the manufacturers name.

Energy and environment declaration

Product Bvb: Accepted

Product BVB ID: 110739

Pos	Component	Material
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Measurements and weight

Dimension range (DN): 50 - 300

DN	A	B	C	Net weight (kg)
50	350	335	785	10
65	350	335	785	10
80	470	413	940	18
100	470	413	940	24
125	635	622	1186	41
150	635	622	1186	46
200	775	757	1456	79
250	890	964	1876	156
300	1005	1129	2196	325

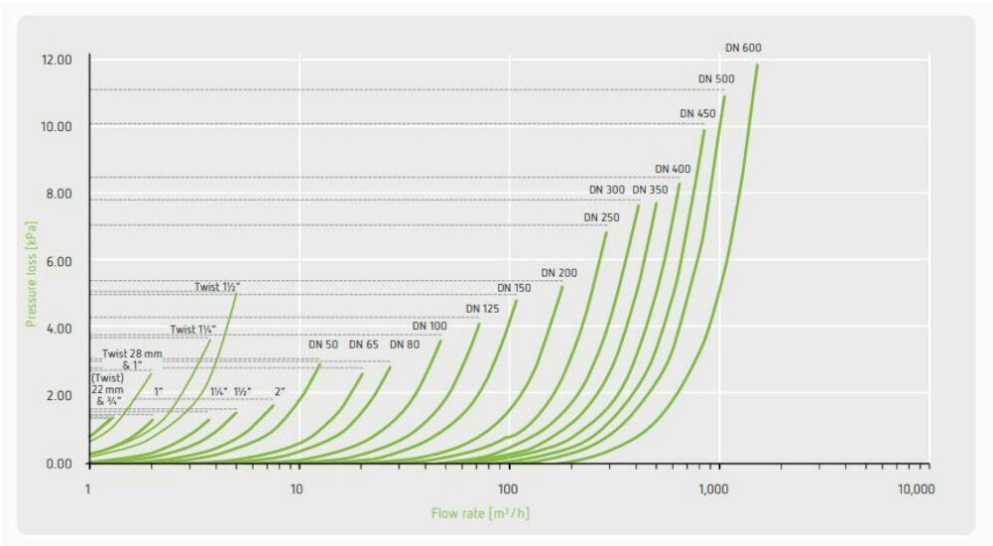
Function and design

The unique construction removes loose air as well as dirt particles. The surface magnifier generates motionless zones above and below the flow. The air rises in the motionless zone to be collected in the air chamber and is then released through the automatic valve. Dirt particles that are heavier than water settles and is collected in the dirt chamber to flush out the system through the drain valve. This can be done during full operation. The velocity decreases as the fluid flows into the separation body. Free gas bubbles, particles and sludge separates while passing through the separator.

Separate bubbles lifts and enter the float body. The liquid level goes down and the float sinks. When the float, that is connected to the separation mehcanism via a bar, reaches a certain level, the mechanism is affected and air can flow into the free. When the float rises again, the mechanism closes.
The large volume of the air chamber and special design makes the liquid level never reach the drainage mechanism.

Technical data

Main material: Steel
Included materials: Steel
Temperature (°C): 0 - 110
PN: 10
Connection: Flanged EN1092
ETIM classification: EC010260 - Air-/dirt separator for central heating/cooling system
Product colour: RAL 7040 - Window grey



Item number	Max system flow (m3/h)	Execution	Connection 1	Connection 1 - spec.	Connection 2	Connection 2 - spec.
8070F50	12.5		Flanged EN1092	DN50, PN16	Flanged EN1092	DN50, PN16
8070F65	20		Flanged EN1092	DN65, PN16	Flanged EN1092	DN65, PN16
8070F80	27		Flanged EN1092	DN80, PN16	Flanged EN1092	DN80, PN16

Item number	Max system flow (m3/h)	Execution	Connection 1	Connection 1 - spec.	Connection 2	Connection 2 - spec.
8070F100	47		Flanged EN1092	DN100, PN16	Flanged EN1092	DN100, PN16
8070F125	72		Flanged EN1092	DN125, PN16	Flanged EN1092	DN125, PN16
8070F150	108		Flanged EN1092	DN150, PN16	Flanged EN1092	DN150, PN16
8070F200	180		Flanged EN1092	DN200, PN16	Flanged EN1092	DN200, PN16
8070F250	288		Flanged EN1092	DN250, PN16	Flanged EN1092	DN250, PN16
8070F300	405		Flanged EN1092	DN300, PN16	Flanged EN1092	DN300, PN16

Installation and maintenance

Possible mounting position: Horizontal

Since the micro bubbles are released at the hottest point in the plant, the component should be placed on the hottest spoint in the system. In a heating system, the warmest point is usually on the supply line, as close to the heater as possible.

Maintenance free, no filter changes are necessary. However, for a good- and safe operation, the sludge chamber must be emptied regularly.

Please feel free to contact us

We answer your questions by e-mail and telephone. No question is too small, no challenge is too big. You are always welcome at Armatec.

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THE COMPANY'S MANAGEMENT SYSTEM
IS CERTIFIED BY DNV
ISO 9001 • ISO 14001