

Particle separator

AT 8040-



Product information

Steel particle separator with particle separator and magnetic insert. Optional AT 8040MI.



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

Area of use

Exdirt D, for effective separation of magnetic, non-magnetic particles and sludge in heating and cooling systems where the fluid is water. It can also be installed in systems with mixtures of water/glycols, but with a maximum concentration of 50%. Not suitable for systems with mixtures of water/salts.

By applying a particle separator in the system, sludge and particles with a size down to 5 micrometers (>5micron) are separated, reducing the risk of flow disturbances and circulation problems. It contributes to increased operational reliability under difficult operating conditions and reduces the need for maintenance.

Tender text

PMB.222 Sludge separators

Particle separator AT 8040... made of steel with magnetic insert, PN10, with particle separator and large collection chamber that can be easily drained through a ball valve. Alternatively, it can be equipped with a cleaning hatch for easy maintenance.

Quality assurance

AFS 2023:5, PED 2014/68/EU

Should not be CE-marked.

Product marking: Marked with dimensions, maximum operating pressure, type number, and manufacturer's name.

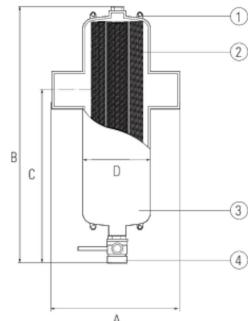
Energy and environment declaration

Product Bvb: Avoided

Product BVB ID: 110737

List of details

Pos	Component	Material
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Measurements and weight

Dimension range (DN): 50 - 300

DN	A	B	C	D	Net weight (kg)
50	260	521	370	132	3
65	260	521	370	132	3
80	370	636	370	206	9
100	370	636	370	206	9
125	525	811	430	354	22
150	525	811	430	354	24
200	650	1021	430	409	44
250	750	1324	500	480	70
300	850	1535	500	634	112

Function and design

Particle separator Exdirt effectively removes sludge and particles in heating and cooling systems that are transported with the system fluid. To effectively separate these from the fluid, the separation housing is large in relation to the connection dimension. When the fluid passes through the separator's housing, the flow rate is reduced. This reduces the velocity through the separation housing, allowing dirt and particles to be optimally separated as they pass through a special wire mesh. This allows dirt and particles to be separated from the fluid, fall downwards, and collect at the bottom of the housing. With the help of the magnetic insert, even magnetic particles are "captured" in the separator.

As an alternative, the separator can be chosen with a cleaning/inspection hatch. Where the large separation housing is equipped with a flanged cleaning hatch for easy maintenance and inspection. (8040R)

Exdirt separates sludge and particles with minimal pressure drop during continuous operation. Accumulated dirt is deposited on the bottom of the separator and easily emptied by opening the drain valve to release the particles into, for example, a collection bucket without disrupting the system's operation. The sludge accumulation chamber has a large capacity, providing long intervals between flushes.

Technical data

Main material: Steel

Included materials: Steel

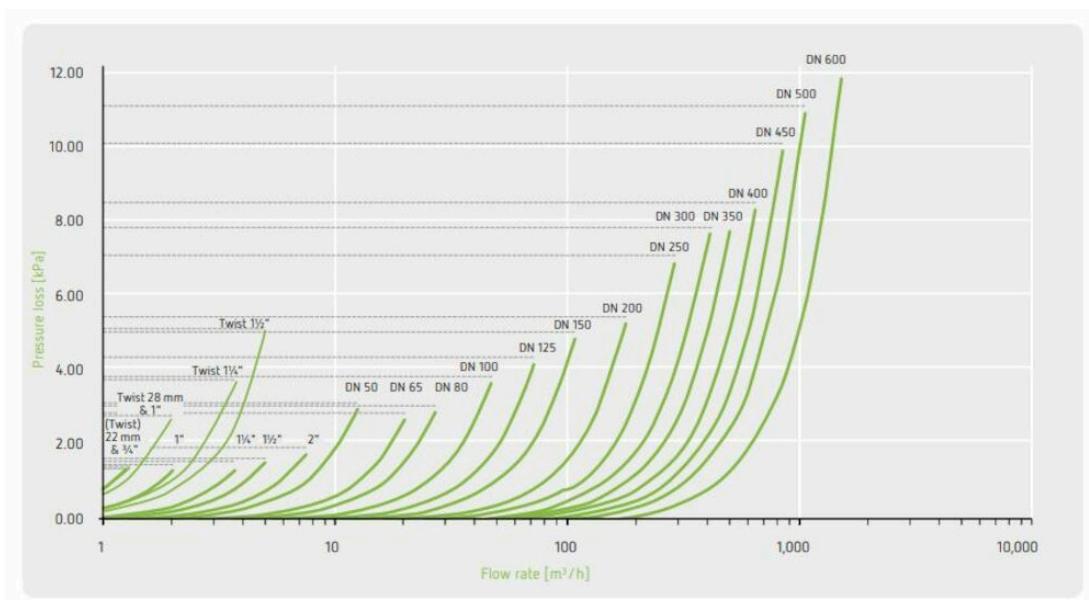
Temperature (°C): 0 - 110

PN: 10

Connection: ISO 1127, weld end

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.
8040-50	12.5	Particle separation	ISO 1127, weld end	DN50-Dy 60,3mm	ISO 1127, weld end	DN50-Dy 60,3mm
8040-65	20	Particle separation	ISO 1127, weld end	DN65-Dy 76,1mm	ISO 1127, weld end	DN65-Dy 76,1mm
8040-80	27	Particle separation	ISO 1127, weld end	DN80-Dy 88,9mm	ISO 1127, weld end	DN80-Dy 88,9mm
8040-100	47	Particle separation	ISO 1127, weld end	DN100-Dy 114,3mm	ISO 1127, weld end	DN100-Dy 114,3mm
8040-125	72	Particle separation	ISO 1127, weld end	DN125-Dy 139,7mm	ISO 1127, weld end	DN125-Dy 139,7mm

Item number	Max system flow (m ³ /h)	Execution	Connection 1	Connection 1 - spec.	Connection 2	Connection 2 - spec.
8040-150	108	Particle separation	ISO 1127, weld end	DN150-Dy 168,3mm	ISO 1127, weld end	DN150-Dy 168,3mm
8040-200	180	Particle separation	ISO 1127, weld end	DN200-Dy 219,1mm	ISO 1127, weld end	DN200-Dy 219,1mm
8040-250	288	Particle separation	ISO 1127, weld end	DN250-Dy 273mm	ISO 1127, weld end	DN250-Dy 273mm
8040-300	405	Particle separation	ISO 1127, weld end	DN300-Dy 323,9mm	ISO 1127, weld end	DN300-Dy 323,9mm

Installation and maintenance

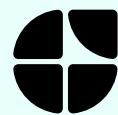
Possible mounting position: Horizontal

A particle separator is installed on the return line in heating and cooling systems before important components such as heat exchangers, boilers, and cooling coils. It prevents sludge and particles from being transported with the liquid and settling in system components. The particle separator should be regularly checked and cleaned as needed.

The company's management system
is certified by DNV
ISO 9001 • ISO 14001

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