

DIRTERM UP

SELF-CLEANING ADJUSTABLE DIRT SEPARATOR



PRODUCTION RANGE

Code	Size	Connection	Kw [m³/h]
3491.05.00	3/4"		9.50
3491.06.00	1"	FF UNI-EN-ISO 228	10.30

ACCESSORIES					
Code	Description				
37.03.60		Deaerator automatic air venting valve with protective cap. Connection G 3/8"			
2343.05.00	K	Connector for cleaning/washing system.			

DESCRIPTION

The **DIRTERM UP**, self-cleaning adjustable dirt separator represents the best solution to solve plant problems due to particle pollution, especially rust and sand, that form due to corrosion and fouling during the normal operation of a system.

OPERATING PRINCIPLE:

The filter collects all the impurities present in the system, preventing them from circulating within it, thus avoiding wear and damage of various components that form the system.

The impurities stopped by the filter are deposited on its bottom as long as the opening of the specific discharge valve allows for their expulsion.

<u>USE:</u>

It is advised to install the dirt separator on the circuit, at the inlet of the boiler (plant return pipe), in order to protect it from any impurities in the system, especially during the start-up phase.

It is important to follow the direction indicated by the ARROW on the body to ensure better performance of the filtering action.

The jointed part ensures total installation versatility for assembly on the following pipes:

- VERTICAL
- HORIZONTAL
- DIAGONAL

CONSTRUCTION FEATURES

- Diverter body:
- Cartridge body:
- Locking ring:
- Elastic ring:
- Filtering cartridge:
- Hydraulic seals:

Nickel-plated brass GCuZn38Pb2 Nickel-plated brass GCuZn38Pb2 Nickel-plated brass CW617N UNI EN 1216 C85 Galvanised AISI 304 EPDM + PEROX

TECHNICAL FEATURES

- Compatible fluid:
- Max. operating pressure:
- Operating temperature:
- Max. temperature:

Water, Water + Glycol 10 bar 0 to +110°C 130°C

DIMENSIONAL FEATURES

	Code	Size	Α	B [mm]	C [mm]	D [mm]	
- ^A - <u>G</u>	3491.05.00	G 3/4"	G 3/8"	104	216	127	1
	3491.06.00	G 1"	G 3/8"	104	216	127	



OPERATING PRINCIPLE

By going through a set path, the fluid is forced to cross the mesh of the cartridge and enter the filtration chamber where all the residues and debris are blocked.

First of all, the sudden cross-section variation (the filtering chamber has a much greater diameter than the conduit) slows down the fluid motion and, consequently, the entrainment rate of the particles suspended in it. The particles collide with the mesh of the filter cartridge and then slow down.

At this point, the heavier particles fall downwards due to gravity, which prevails over the entrainment force; this way, all nonmagnetic contaminants (algae, sludge, sand, etc.) present in the system are removed.

The stainless steel cartridge, thanks to its particular spiral shape and its mesh with a very high degree of filtration, does not offer resistance to the passage of the fluid (low pressure drops) and encourages a helical motion that makes the impurities go towards the bottom.





MAINTENANCE INTERVENTIONS

FILTERING CARTRIDGE CLEANING:

The large chamber built for separating impurities and the choice to use a large-mesh steel filter, prevent the filter from getting clogged. In case of large impurities, it is still possible to clean the cartridge by removing the accumulation cap.







FILTER PURGING:

Filter purging can be performed with the system running, acting on the ball valve provided with hose connection. IT IS IMPORTANT TO PERFORM THE PURGE OPERATION AT LEAST <u>ONCE A YEAR</u>. IN CASE OF FIRST APPLICATION, PERFORM THE FIRST PURGE <u>AFTER A MONTH</u>.



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