A RBM

AIRTERM DIRT AND AIRTERM MAG COMBINED SELF-CLEANING DIRT SEPARATORS / DEAERATORS



PRODUCTION RANGE

SELF-CLEANING DIRT SEPARATOR / DEAERATOR					
1	Code	Size	Connection	Туре	
	2831.04.00	1/2"	F UNI-EN-ISO 228	Airtorm Dirt	
	2831.05.00	3/4"	F UNI-EN-ISO 228		
	2831.06.00	1"	F UNI-EN-ISO 228		
	2831.07.00	1"1/4	F UNI-EN-ISO 228	Aintenni Dint	
	On request	Ø 22	Copper compression pipe		
e 1	On request	Ø 28	Copper compression pipe		

SELF-CLEANING MAGNETIC DIRT SEPARATOR / DEAERATOR

Code	Size	Connection	Туре
2863.04.00	1/2"	F UNI-EN-ISO 228	
2863.05.00	3/4"	F UNI-EN-ISO 228	
2863.06.00	1"	F UNI-EN-ISO 228	Airtorm Mag
2863.07.00	1"1/4	F UNI-EN-ISO 228	Ainterm Mag
On request	Ø 22	Copper compression pipe	
 On request	Ø 28	Copper compression pipe	

DESCRIPTION

THE PURPOSE:

Airterm Dirt combines the functions of common dirt separators and deaerators in a single solution. They are used to remove air and impurities from hydraulic circuits.

In addition, *Airter Mag* is equipped with a powerful magnet to capture particles such as <u>rust and sand that are formed due to</u> corrosion and scale during the normal operation of a system.

By removing dirt and air from the system, unnecessary breakdowns and malfunctions can be reduced, helping to:

- Increase heating and cooling efficiency
- Reduce the formation of corrosion in all points of the system
- Reduce extraordinary maintenance work
- Reduce the effects causing system noise
- Lower the cost of system management

USE: They can be used in heating and cooling systems.

<u>CAUTIONS:</u> In order to function properly, the dirt separator / deaerator must be installed in a **vertical position (on horizontal pipes)**, with the impurity drain valve facing downwards.

<u>ADVANTAGES:</u> Merging two different components into one solution has allowed us to significantly reduce overall dimensions with respect to conventionally assembling two different products: dirt separator + deaerator.

<u>WARNINGS:</u> Airterm Mag contains a powerful magnet, and strong magnetic fields are present within the filter.

We recommend the holders of pacemaker devices to keep at a safe distance during the filter operation and / or maintenance.

CONSTRUCTION FEATURES

•	Body:

- Elastomers used:
- Float:
- Cartridge:
- Spring:
- Magnet (series 2863 only)
- Connections

Brass CW 617N UNI EN 12165

AISI 302	stainless steel	

With levers, made of polypropylene resin

AISI 302 stainless steel

EPDM and NBR

only) Neodymium

F UNI-EN-ISO-228 / Compression connection for copper pipe (depending on version)

TECHNICAL FEATURES

Usable fluid: Water Water + Glycol 30%
Maximum fluid temperature: 110°C
Maximum operating pressure: 10 bar (1000 kPa)
Maximum discharge pressure: 10 bar (1000 kPa)

DIMENSIONAL FEATURES









USE / INSTALLATION

Dirt separators/deaerators *Airterm Dirt* and *Airterm Mag* **operate the systems with air-depleted water**, therefore they can absorb the air bubbles nestled in the system critical areas while collecting all the system impurities (resulting both from decantation and the collision with the inner grid), thereby preventing them from circulating within it, wearing and damaging all the system components.

- In order to obtain optimal deaeration, they must be **installed on the system warmest side**, as it is the area in which microbubbles form more. The dirt separator must be installed on the primary circuit return **(boiler inlet)** and in any case upstream of the devices that it must protect (circulators, exchangers, etc. ...). Having said that, dirt separators/deaerators RBM **can be installed without distinction on the system delivery and return**.

- To allow maintenance work to be performed, make sure that around Airterm Dirt and Airterm Mag there is enough space

- Install **shut-off valves** upstream and downstream of the dirt separator/deaerator, in order to allow scheduled maintenance work and filter cleaning to be performed

- Airterm Dirt and Airterm Mag are bi-directional components, therefore they have the same efficiency irrespective of the direction of the flow running through them

- Airterm Dirt and Airterm Mag must be always installed with the air discharge valve facing upwards and the impurity drain valve facing downwards.





MAINTENANCE INTERVENTIONS



SPECIFICATION ITEMS

SERIES 2831

Filter for self-cleaning dirt separator/deaerator model *Airterm Dirt*, complete with discharge ball cock with hose connection. Brass body. AISI 304 steel 3-layer filtering cartridge. EPDM hydraulic seals. Threaded connections FF UNI-EN-ISO 228 (or compression ones for copper pipe). Maximum operating pressure 10 bar. Max. discharge pressure 10 bar. Maximum operating temperature 110° C. Available sizes 1/2" ÷ 1"1/4 (or compression for copper pipe ø22 and ø 28).

SERIES 2863

Filter for self-cleaning magnetic dirt separator/deaerator model *Airterm Mag*, complete with discharge ball cock with hose connection. Brass body. AISI 304 steel 3-layer filtering cartridge. EPDM hydraulic seals. Neodymium magnet. Threaded connections FF UNI-EN-ISO 228 (or compression ones for copper pipe). Maximum operating pressure 10 bar. Max. discharge pressure 10 bar. Maximum operating temperature 110° C. Available sizes 1/2" ÷ 1"1/4 (or compression for copper pipe ø22 and ø 28).

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RBM spa reserves the right to improve and change the described products and related technical data at any moment and without prior notice: always refer to the instructions attached with the supplied components; this sheet is an aid, should the instructions be extremely schematic. Our technical department is always at your disposal for any doubt, problem or clarification.

