

ART. 747/748 – ANGLED DIRT SEPARATOR

FUNCTIONS

The dirt separators are normally installed on the boiler in the closed circuits of domestic systems to separate the impurities contained in the heat transfer fluid (particles of sand, sludge, rust, etc.) collecting them in a decanting cup from which it is possible to discharge them even while the system is in operation. These devices can remove even the smallest impurities continuously and with low frequency cleaning procedures.

Dirt separators ensure high performance of air conditioning systems, minimizing the clogging of pipes, heating elements and heat exchangers. They also prevent wear and tear of the system components (pumps, valves, etc.), reducing head losses.

PRODUCT RANGE

Article	Size	Color	Code
747	3/4"	Brass	82747AE05*
747	3/4"	Nichel	82747AE06*
747	3/4"	Bright Nichel	82747AE07*
747	3/4"	White Coating	82747AE13*
748	3/4"	Brass	82748AE05
748	3/4"	Nichel	82748AE06
748	3/4"	Bright Chrome	82748AE07
748	3/4"	White Coating	82748AE13



Products with * symbol have magnetic insert Art.749.

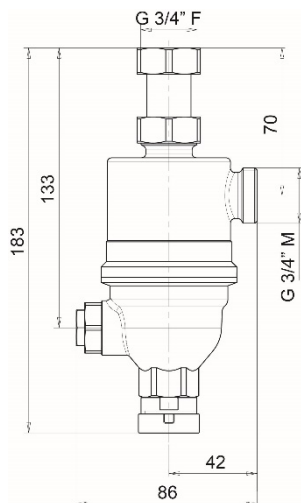
TECHNICAL FEATURES

Body:	Brass CB 753 S - UNI EN 1982
Collection chamber:	Beass CB 753 S - UNI EN 1982
Upper cup:	Brass CW 617 N - UNI EN 12165
Internal element:	Stainless steel
Drain cock:	Composite materials
Sealing gaskets:	EPDM Peroxide (for high temperature)
Fluids:	Water, glycol solutions
Max. percentage of glycol:	50%
Temperature range:	0°÷110°C
Max. operating pressure:	10 bar
Connections - Main:	G 3/4"
- Drain:	G3/4" with hose connector Ø15
Magnet: Neodymium REN35 B=10.500 Gauss (for Art.747)	



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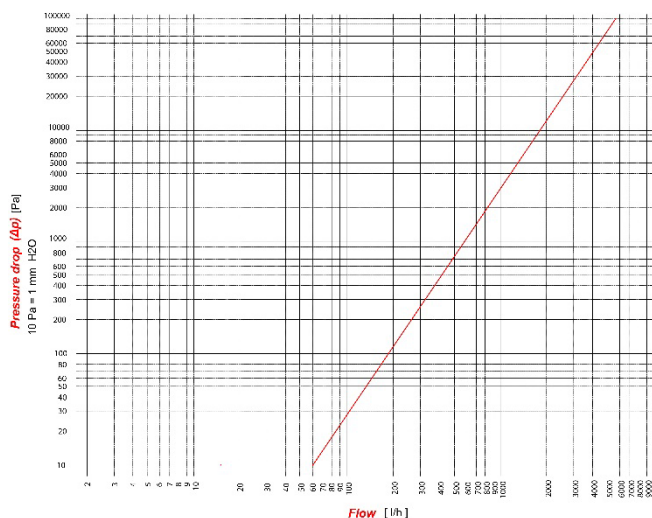
DIMENSIONS



HYDRAULIC CHARACTERISTICS -- HEAD LOSSES

Compact magnetic dirt separator Art. 747,748 3/4"

Pressure drop diagram



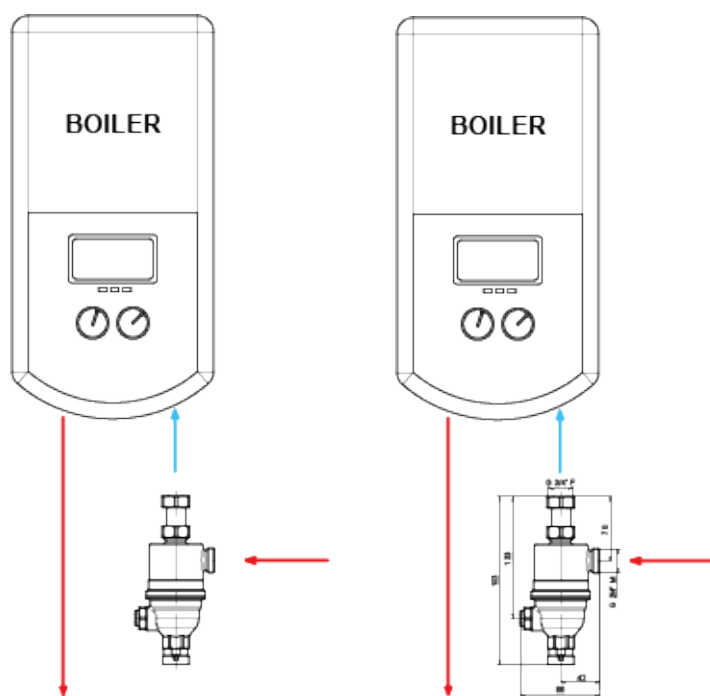
Kv
[m³/h]

5,5

The graph alongside shows the Kv parameters of ICMA dirt separators range.

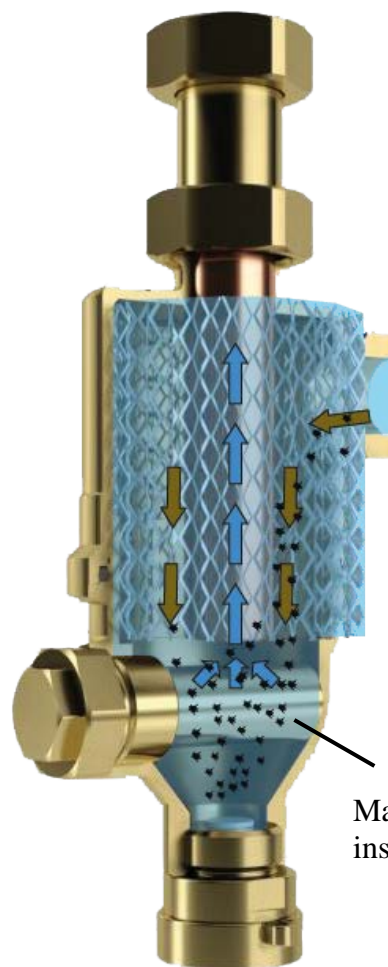
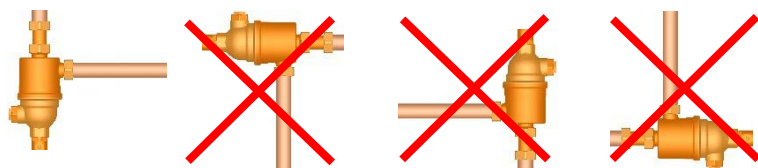
APPLICATION SCHEME

The dirt separator should preferably be installed on the return circuit upstream of the boiler and any recirculation pump to intercept any impurities coming from the air conditioning circuit, particularly when it is first started.



INSTALLATION

The dirt separator can only be installed vertically to help collect the impurities at the bottom of the body.



Magnetic insert



SLUDGE DISCHARGE

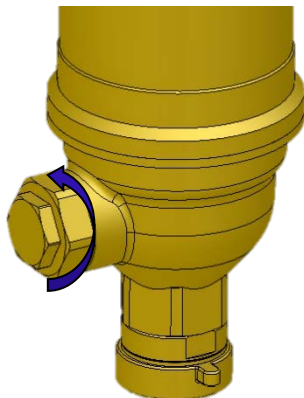
The collected impurities are discharged by opening the drain cock located at the bottom of the dirt separator. The device is also equipped with a Ø15mm hose to be connected to the drain cock to direct the discharge.

This procedure can even be performed while the system is in operation!

Please follow the instructions below:

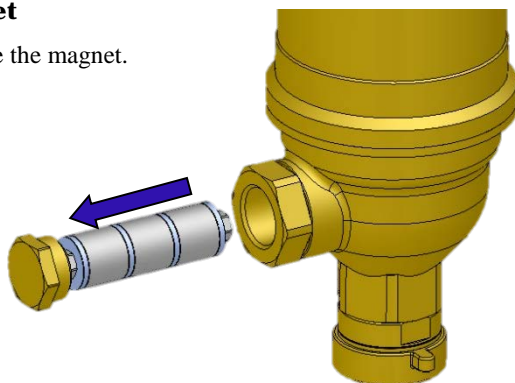
Unscrewing the magnet nut

Unscrew the magnet nut with a 17-key.



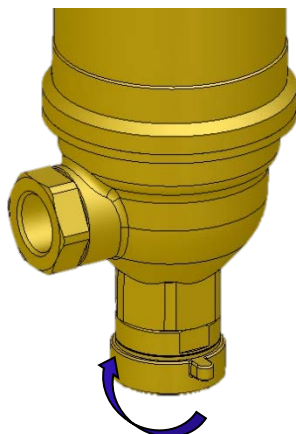
Extraction of the magnet

Remove the magnet.



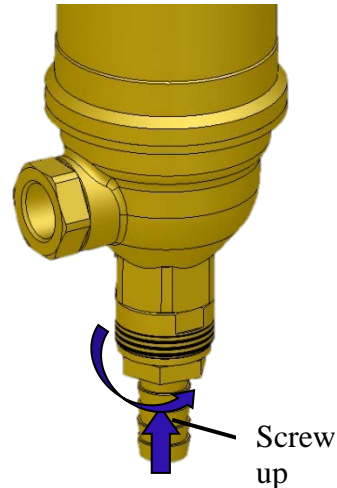
Unscrewing the cap of the cock

Unscrew the cap of the cock



Screwing the hose connector

Screw the hose connection on the tap.



WARNING

The magnet generates a very strong magnetic field.


It is recommended for people with pacemakers to keep a safe distance during maintenance, or take precautions. Pay attention also to the use of electronic devices near the magnets to avoid compromising on their operation.

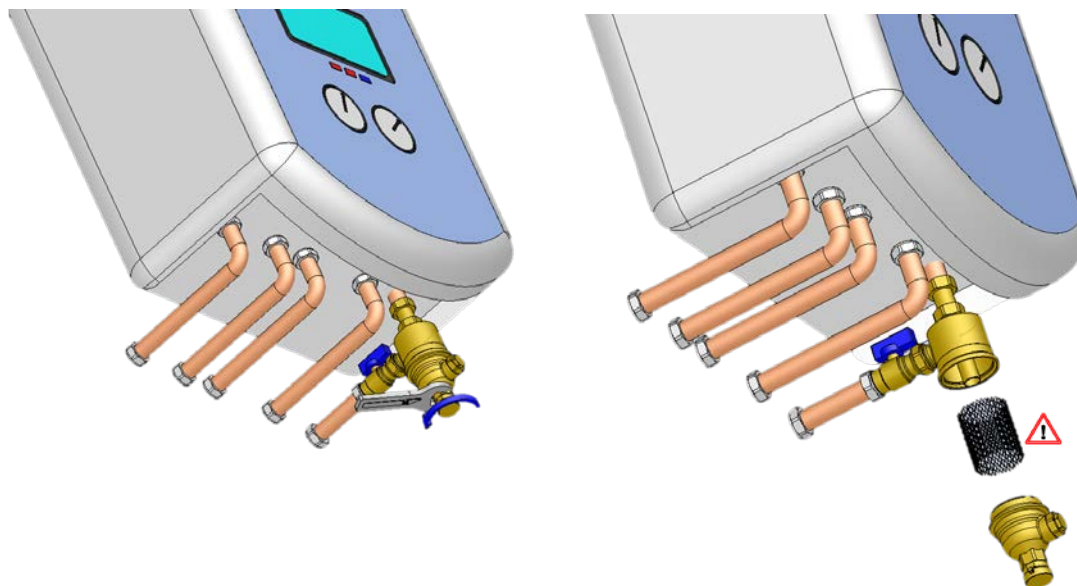
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MAINTENANCE


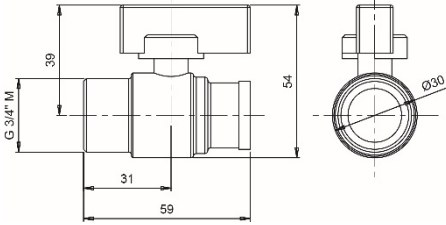

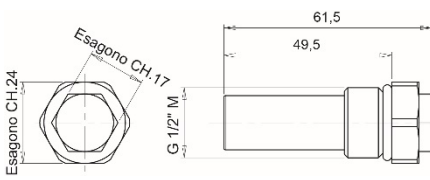
It is possible to carry out maintenance operations without removing the dirt separator from the system.

After closing the interception valves, use a 26 mm hex wrench to unscrew the dirt collection chamber. It is now possible to remove the mesh to clean it.

Be careful with the sharp edges of the filter cartridge, we recommend the use of proper gloves! 



ACCESSORIES

		<p>Ball valve for dirt separator DN15. When closed, maintenance can be carried out.</p>
		<p>Magnetic insert. It converts the compact dirt separator Art.748 into the magnetic dirt separator Art.747.</p>

SAFETY

Installation must be carried out by qualified personnel. During installation and maintenance of dirt separators, pay attention to the temperature of the medium temperature that may be over 50 ° C and cause serious burns. The warranty is not valid in case of alterations or tampering carried out by unauthorised persons.