



GRAVITY FLAT BED FILTERS (GFBF SERIES) WITH FILTERING FABRIC

In our GFBF type flat bed gravity strainers filtration occurs by gravity and the used filtering means is the non woven fabric capable to retain contaminating particles of any kind, both metallic and non-metallic particles produced by different industrial processes and found suspended in liquid lubrocoolants. The average degree of filtration that can be obtained varies according to the type of filtering fabric used and to the caking on the fabric itself due to the layer of accumulated sludge. The flow rate of lubrocoolant to filtrate determines the size of the gravity strainer and the extension of the filtering surface necessary for the purpose.

Based on the flow rate of the liquid to be treated, standard production of our series of gravity strainers is divided in:

Normal series – Type GFBF – for flow rates from 50 to 500 L/min.

Wide series – Type GFBF/L – for flow rates from 250 to 1.500 L/min.

Overlapped series – Type GFBF/S – for flow rates from 500 to 4.500 L/min.

While our normal GFBF series strainers and the large GFBF/L series consist of a single filtering unit, the overlapped GFBF/S series consists of 2 or 3 GFBF/S type strainers installed one above the other. This allows to obtain a total filtering surface suited to the considerable filtration capacities remarkably reducing the total filter dimension.

The total capacity of liquid to be treated is divided and distributed to the individual filtration units via pipes and valves that divide the flow. The overlapped series is particularly recommended for centralised systems designed to supply filtered liquid to several manufacturing machines.

All our gravity strainers can be equipped (upon request) with a magnetic filter so that the liquid to treat is subject to a prefiltration treatment. The GFBF/M series strainers, combined with magnetic filter, are used when there is a high content of ferrous particles suspended in the liquid to treat. Pre-filtrating the lubrocoolant considerably limits the consumption of filtering fabric allowing a large part of the pollutant magnetic particles to be eliminated before these reach the filtering bag in the gravity strainer.

Advantages:

Low energy consumption

Low maintenance costs

Simple and automatic operation

Easy to install

Flexibility in the choice of filtering fabric and degree of filtration

The flat bed gravity strainer and conveyor belt can both be made of stainless steel