

- WIRE MESH SEPARATORS -



Wire mesh separators are widely used when an effective separation between liquid and aeriform phase is very important in order to obtain cheap and efficient industrial processes.

This kind of separators are made by an alveolar structure of wire mesh obtained by the superposition of several layers of a tubular sock.

This sock is weaved by very thin wires with a diameter inferior to 0,3 mm and that allows to obtain a structure with high free volume (usually > 95%), a big active surface with a low density of the mesh allowing a saving about used material and costs.

Wire mesh separators are widely used:

- in gasses purification plants;
- to eliminate liquids that could damage the production processes;
- to prevent problems to the plant structures;
- to prevent dangerous emissions for the environment;
- to recover expensive liquids.



- ACCESSORIES -

Wire mesh separators are often supplied with accessories like boxes, extractors and fixing systems. Among the most common there are:

- **Containment meshes** usually used when the crossing speed is particularly high.
- **Fixing elements** according to the most used international standards like L and J bolts, fixing wire etc.
- **Support grates** used to contain and support the mesh pad.

- SUPERFICIAL TREATMENT -

Every welded material could be treated with a passivation process in order to eliminate all the residues of welding and to avoid a corrosion effect coming from an aggressive environment.

To ensure the best quality of our products we adopted a special **TIG BRUSH CLEANING SYSTEM** allowing us to clean perfectly every single weld.

- MATERIALS -

AISI 304L, AISI 316L or AISI 314 always on stock. Special materials as Inconel, Monel, copper on request.



Demisters for screw compressores and refrigeration industry

AFP Tech Srl produces different kinds of wire mesh demister for refrigeration industry and screw compressors. We can realize circular filters with holes in central or eccentric position and with different sizes and shapes. Customized wire mesh density and wire diameters are also available.



- ADVANTAGIES OF WIRE MESH SEPARATORS -

- Easy installation and moving through man holes and small spaces.
- High efficiency of separation processes with low pressure drop.
- Reduction of the vessel's dimensions with less working costs.
- Less costs if compared with other separation methods.



- AIR TREATMENT -

In many cases the air treatment plants need a wire mesh separator usually installed in series with other filters, as for example filter cells, to get their life longer or to improve the efficiency of the filtration process.

In both cases stainless steel demisters can provide high performances of separation, usually capturing till 3 micron droplets, with a very small pressure drop.



- WIRE MESH ROLLS -

Metallic wire mesh is the raw materials used to make wire mesh demisters but it can find a lot of application in many sectors of industry to produce, for example full metallic antivibrations, air treatment filters, automotive components like filters, antivibrations, separator rings, silencers, thermal insulators, anti intrusion and anti vandalism elements, cleaning of mechanical components etc.