

# Filter press technology

## EnvoPress



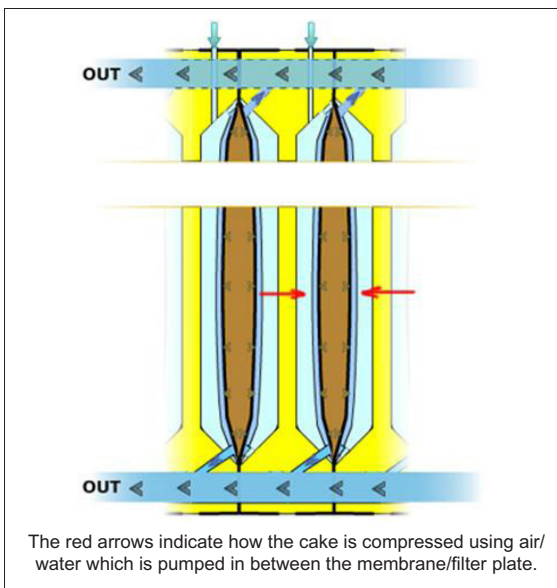
Vilokan can offer a wide program of filter presses for sludge dewatering. One chief benefit with filter press technology is that a large filter area can be achieved in a relatively small space. The simplest Envopress systems in the program of models are completely manual and entail low investment costs.

They are excellent for small industrial applications. Larger, automated Envopress filters can be used for extra-quick filling, full automation, filter cake washing, membrane, washing filter cloths and top-hung filter plates for easy access. The filter cakes generally become solid and hard, thereby simplifying handling and transport.

### Function

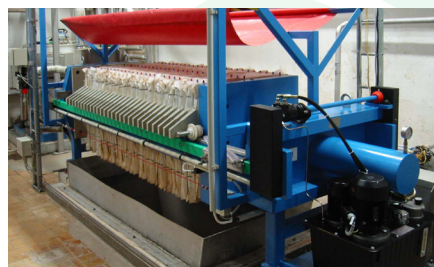
The filtrate/sludge/water is pumped into the filter at high pressure (approx. 15 bar) and the solid particles fill up the space between the filter plates. Once all the spaces are filled, the pump phase pauses and the filter opens for emptying. The filter plates (frames) are pressed together from the start to prevent leakage between the plates, although despite the name there is no further compression. All compression of the filter cakes is carried out using pumps.

An evolution of the filter press involves fitting the filter plates (frames) with impermeable membranes. Behind the membranes, air or water can be pumped in to compress the filter cakes further. There are several benefits, such as dynamic filter volume, a faster process, drier cakes and more efficient washing.



Contact us for further information about the program of models, technical data and more.

### Examples of applications



#### Examples of application fields:

- Metal hydroxide sludge dewatering.
- Sludge dewatering from production processes.