SCOTT LABORATORIES

LENTICULAR FILTRATION
ADVANTAGES

1. Quick and easy to setup and tear down.
2. Reusable media. Storing media between use and using it multiple times helps to offset the initial cost of the media.
3. Regeneration of media. The modules can be backflushed and forward flushed to increase throughput by at least 50% in comparison to sheets.
4. Much lower dissolved oxygen (DO) levels and drip loss. When you purge with nitrogen properly, you should only lose what is absorbed in the media. Keep in mind that there is a deceptively large amount of media in a small space in comparison to sheet filters. From a dissolved oxygen standpoint, these can be purged effectively with nitrogen before and after to essentially eliminate DO pickup in the filtered product as well as hoses/pumps/tanks to and from the filtration. No more drip pan monitoring like you would with a sheet filter. Carbon dioxide tends to dissolve so nitrogen is preferred.
5. Scalability. For a low cost, you can build in some growth potential into the housing. For example, you could buy a split dome 4-high housing, and a 1-high/2-high/3-high center post to use in accordance to batch size, building in growth and flexibility as needed. This would be comparable to buying a large sheet filter and using a blind plate and spindle extension in a plate and frame. 12” modules also fit in a 16” housing.
6. Footprint. Lenticular housings take up a lot less space packed with potentially a much larger amount of surface area. They can be put on casters or a skid for more mobility. Housings can be used in series loaded with different porosities for a single pass filtration.
7. Design and maintenance. A lenticular housing is easier to keep clean. Maintenance is minimal and includes one larger base silicone or Viton gasket and occasionally, the plastic part of the hold down device and 1.5” gaskets for the tri-clover fittings.
8. Lenticular housings and media are much more suitable for running in-line with bottling when compared to sheet filters. The media and housing design is much better suited to efficiently handle the stops and starts on a bottling line. A 16” 4-high housing loaded with Seitz EK media is widely used on medium sized bottling lines (up to 45 gpm) to correct filterability.

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