

Carlson Filtration has recently introduced a new and improved range of XE-CEL-LENT Lenticular depth filter Cartridges/Modules.

Incorporation of depth filter sheets in Lenticular cartridge format means that Carlson's customers can enjoy the advantages of efficient, economical filter media in a robust, stable, non-compressible filter cartridge. The range of depth filter sheets available in XE-CEL-LENT Lenticular format includes Carlson's high performance XE, NA, BK, EE, PROC3 Activated Carbon, PROP4, PVPP and W2 filter aid support grades.



**XE-CEL-LENT** Lenticular cartridges are available in standard 12 inch (300mm) and 16 inch (400mm) diameter nine cell and sixteen cell versions, as well as in alternative formats which are available to special order, ranging from two up to fifteen cells. Wider spacing between cells is available if required.

The **XE-CEL-LENT** product line is complimented by a range of single and multi-cartridge housings for both the 12 inch (300mm) and 16 inch (400mm) diameter filter cartridges, to cover a wide variety of applications from laboratory and pilot scale operation to larger scale continuous production.

Carlson has incorporated a number of important design features in the new XE-CEL-LENT filter cartridge range including:

- An interlocking disc design which improves lateral strength and rigidity, whilst ensuring that only polypropylene to polypropylene contact throughout the internal core of the cartridge, alleviates any compressibility problems inherent in some earlier designs.
- A heavy duty non-woven polyester scrim which gives improved resistance to back pressure shock and a much improved back washing capability, as well as providing an appreciable

degree of pre-filtration prior to the depth filter medium.

- Pre-compression during manufacture to precise dimensions eliminates the need for special tightening down procedures since the cartridge is also non-compressible, thus eliminating reliance on operational procedure to achieve optimum performance.
- Advanced design of the FDA quality polypropylene separator discs and sealing rings promotes more even liquid flow within each cell. This in turn tends to reduce the pressure drop across the filter cartridge, leading to longer filter cartridge life, shorter filtration cycles and more consistent filtrate quality.



**XE-CEL-LENT** Lenticular cartridges are used in a broad range of filtration applications from whisk(e)y and other distilled spirits, wines, beers/lagers through to fruit juice and syrups clarification, pharmaceutical products, gelatines, cosmetics, solvents, chemicals and foodstuffs duties.