

CHALLENGER

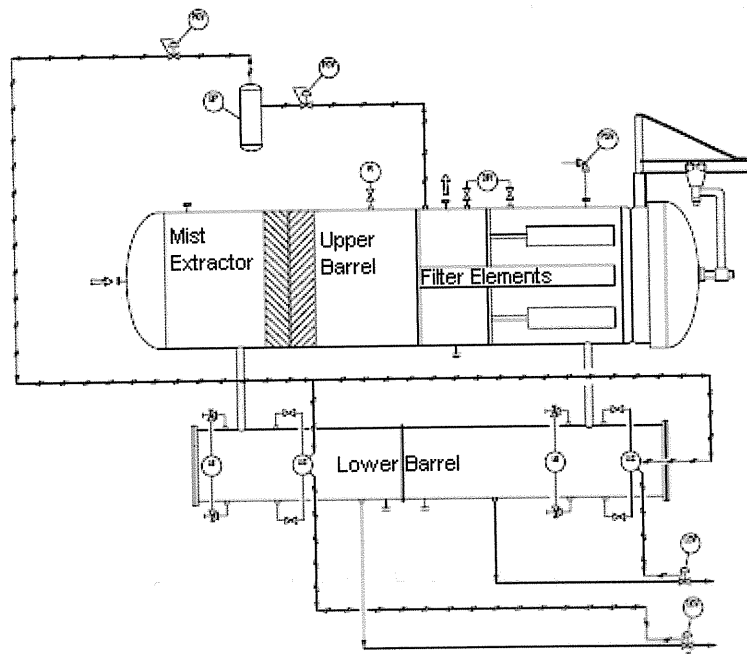
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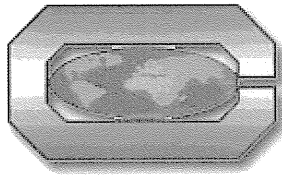
VIPER® FILTER SEPARATOR

Homepage: www.challengerps.com

CHALLENGER PROCESS SYSTEMS CO.
VIPER® FILTER SEPARATOR, U.S. PATENT NO. 7,270,690



CPSC has re-engineered the idea of filter separation using its patented VIPER® technology. The Viper® Filter Separators are unique in design in that they differ from the typical filter separator. With this new patented design, large amounts of liquid particles are removed along with the bigger solid particles as well. This product is designed to avoid having large solid particles flow through the filter elements allowing filter elements to have a longer-lasting life. See the following for more details and the process layout.



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VIPER® Filter Separator

U.S. Patent No. 7,270,690

Unit Summary

- VIPER® vane mist extractor is installed in the first stage with the following advantages
 - Ability to separate very fine liquid particles
 - At the same time, will catch bigger diameter solid particles
- The filter elements are installed in the second stage
- A lower barrel beneath the VPS accumulates liquids

Process

- Gas stream enters first stage
- Liquid droplets and large solids are separated from stream via mist extractor
- Fine solids, if still existing, distribute evenly over filter elements surface in second stage
- No channels are formed
- Differential Pressure indicator will show an actual need for replacing filter elements

For sizing assistance call you nearby CPSC sales representative or refer to the list below:

For more information on CPSC's products, view our website listed above or contact:

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