



# CPI HIGH EFFICIENCY SEPARATORS

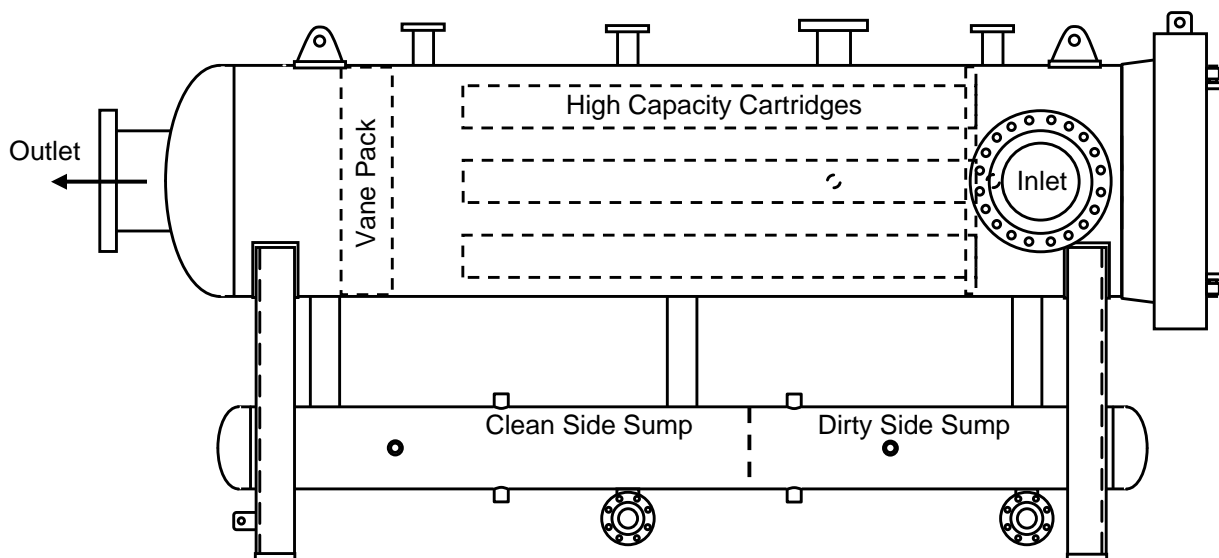
*Comparing Performance to Traditional Separators for Black Powder Removal*

CPI separators are designed for Black Powder removal. Performance is maximized using high capacity cartridges which flow inside to outside. Unlike standard filter separators, solids are trapped inside the cartridges for easy disposal. Liquids drain from the exterior of the cartridges in a less turbulent zone and a second stage vane pack is available to further reduce droplet carry-over. Micron ratings are available as low as 0.1  $\mu\text{m}$  with solids loading abilities higher than any other product. Vessels are horizontal with quick opening closures. A liquid sump is located below the vessel to store liquids from the dirty side and clean side.

Traditional Filter Separators flow outside to inside and solids accumulate on the outside of the filters. These filters are generally depth tubes rated 1 to 5 micron. Liquids either fall out on the dirty side or pass through the cartridges as coalesced droplets where they are removed by a second stage vane pack or other technology. Standard Filter Separators do have an enhanced ability to remove liquid slugs because a larger portion of the vessel is dedicated to the dirty side where liquids can fall out.

## COMPARISON

<u>Item</u>	<u>Standard Filter Sep</u>	<u>CPI Separator</u>
Dirt Holding Ability	Low	Very High
Micron Rating	1 to 5	As low as 0.1 $\mu\text{m}$
Coalescing Ability	Good	Very Good
Liquid Slug Ability	Very Good	Low
Flow Ability	Very Good	Very Good
Black Powder Removal	Poor	Very Good
Economics	Good	Very Good



CPI High Efficiency Separator