

ADVANTAGE OF K-FLOW SCF SCRAPER TYPE SELF-CLEANING FILTER OVER BACKWASH-DESIGN UNIT

	SCF SCRAPER TYPE	BACKWASH TYPE
SCREEN RESISTANCE TO FOULING AND CLOGGING	Scraper brushes get into wedgewire slots and dislodge resistant solids , assuring a complete cleaning .work very well against biofouling	Backwash often ineffective against stubborn solids which remain in screen openings and reduce performance
Vessel fabrication and materials of construction	Custom vessel fabrication in SS 304 / 316 and super duplex to minimize piping modifications in the field.All SCF vessels are fabricated and are cost competitive against most cast vessel pricing	Usually cast vessels with pre-determined connection locations and orientations . Fabricated vessels on custom orders only , resulting in substantially higher prices .
Water use on blowdown	Blowdown occurs only at the end of the intermittent scraping cycle . Valve is opened for a few seconds to remove solids from collector area . Liquid loss is well below 1% of total flow	Backwash must be flowing in order to clean the screen As screen becomes clogged with resistant solids , backwash intervals increase . Water loss is typically 5% of total flow
Speed of screen cleaning	SCF's 3 scrapers rotate at 8-16 RPM , resulting in a cleaning rate of 12-24 times per minute	Backwash arms usually rotate at 3-4 RPM , resulting in longer backwash times to clean screen



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<p>Ratio of screen net open area to pipe area</p>	<p>Filters are typically designed with a minimum screen to pipe ratio of 4:1 For finer screens , the vessel height is increased to accommodate a taller screen to increase the effective filtration area</p>	<p>Filters are typically designed with a screen to pipe ratio of 2:1 using a Multi-layers mesh screen. The net open area decreases resulting in a lower flow rate or a higher pressure drop .</p>
<p>Control package</p>	<p>SCF can use a wide variety of PLCs and can also control associated equipment such as pumps and valves</p>	<p>Limited standard packages are offered . Custom panels result in much higher pricing .</p>



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