Dominion Engineering, Inc.

AMFM-P500 Filtration System

Description

The AMFM-P500 filtration system includes:

- One high capacity AMFM™ filter element
- 500-gpm pump unit
- Ultrasonic regeneration module
- Modular skid with mounting hardware (curb-hung, free-standing, or rack-supported)

AMFM-P500 system uses a patented ultrasonic regeneration process to refresh the capacity of the AMFM™ many times over its long service life.

Applications

Because the AMFM™ can be easily moved using the plant's fuel handling equipment, the AMFM-P500 is a versatile tool for a variety of vacuuming and filtration activities in the spent fuel pool and reactor cavity. Applications include:

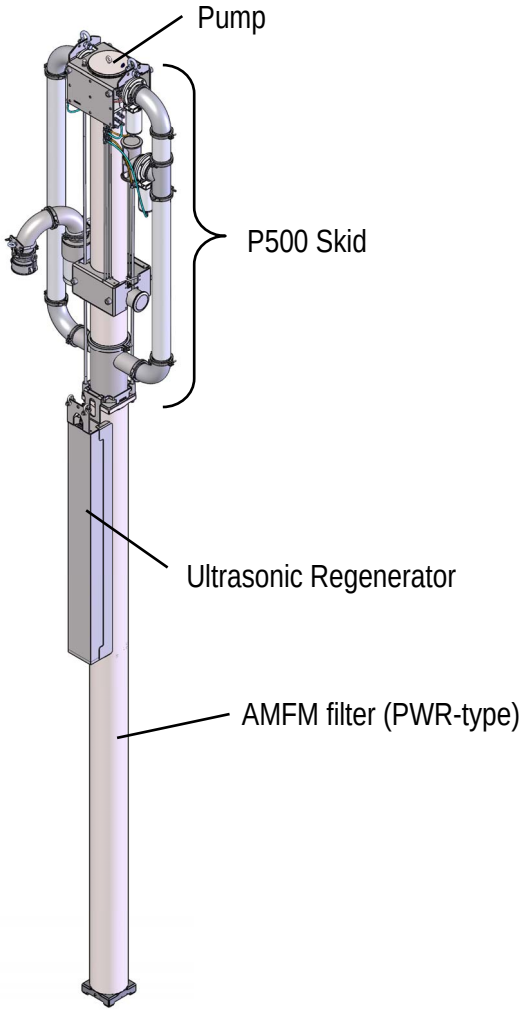
- Convenient replacement or supplement to the plant's spent fuel pool purification system (decommissioning or operating units)
- General high flow filtration
- Traditional or custom vacuuming of corrosion products, foreign material, and other debris (ROV, hydrovac, skimmer, underwater repairs and segmentation, guide tubes, fuel and fuel racks, and reactor vessel)

Features and Specifications

- Flow rate—500 gpm (multiple modules can be used to achieve higher flow rates)
- Dry weight—900 lbs (with all components)
- Electrical—One 3-phase 480 V receptacle
- Easily adapts to standard vacuuming tools
- Catalogue of custom attachments available (demineralization module, ultrasonic cleaning and vacuuming tools, etc.)
- Operates with the AMFM™ filter downstream of pump (maximizes suction pressure, flow, and filter capacity), with an inlet debris basket utilized upstream of the pump to mitigate internal contamination of the removable pump

Benefits

- $800k/year savings relative to traditional plastic filters reported at two-unit site
- Each AMFM™ eliminates several hundred plastic filters and can remain in-service throughout plant life and decommissioning
- Saves outage time and reduces radiation exposure by eliminating plastic filter changeouts and management activities



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For more information, contact Mike Little (*mlittle@domeng.com*), or David Arguelles (*darguelles@domeng.com*)