

NEX-SYS® UPGRADES

VESSEL RE-ENGINEERING PROGRAM

REDUCED DISPOSAL VOLUMES AND LOWER FILTRATION COSTS

Pentair's Nex-Sys™ Vessel Re-Engineering Program allows us to adapt your existing filter vessel to utilize our high performance coreless element technologies. Each system is designed to address the specific operational and mechanical constraints of the facility.

We re-configure the vessel to maximize solids loading ability, while simultaneously reducing the number of elements an operator would have to change. A typical Nex-Sys™ upgrade uses one quarter the number of elements, while simultaneously increasing the on-line life 4-7 times while providing similar fluid quality.

Some examples where upgrades have been done include:

- > String-Wound Cartridge Upgrade: Selexol System
- > Cartridge Upgrade: Rich MDEA System
- > Sour Water Filter Upgrade
- > Ethylene Feed Filter Upgrade
- > Stacked Disk Filter Upgrade: Silicones
- > Natural Gas Processing: Filter / Separator Upgrade

Conventional filter systems can prove to be laborious during change outs, have high change out frequencies and carry significant disposal volumes and costs. An optimized system achieves maximum utility at minimal investment in manpower, capital and expense. Pentair upgrades allow the use of existing capital in a more productive capacity through increased useful surface area, high efficiency media, effective sealing of elements and minimal operator effort.

Typical COMPAX® Coreless Upgrade

Figure A
Housing
before core
installation



Figure B
COMPAX®
core
installation

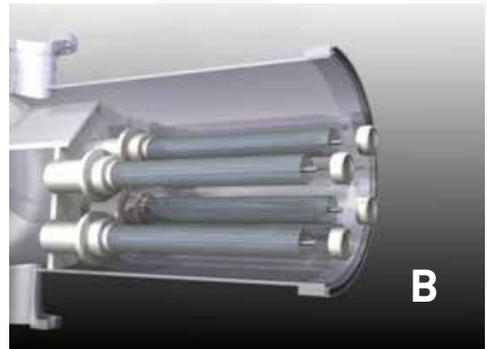


Figure C
Core
installation
completed

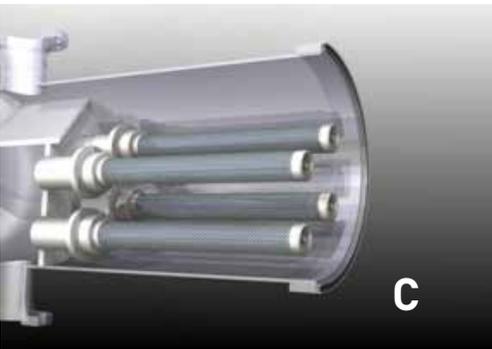
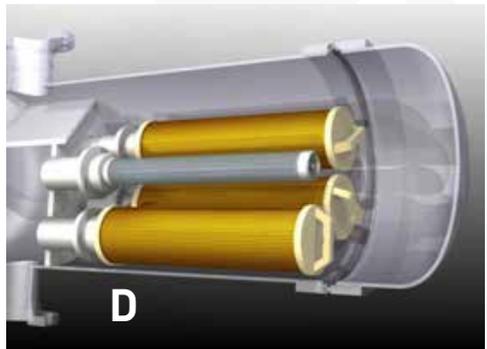


Figure D
COMPAX®
coreless
elements
installed on
cores



COMPAX®

CORELESS ELEMENT TECHNOLOGY

REDUCED DISPOSAL VOLUMES AND LOWER FILTRATION COSTS



HOW IT WORKS

Compax® coreless element technology makes use of high efficiency media in a robust element configuration that provides consistent, effective particle capture. The design also dramatically improves ease of operation with high efficiency o-ring seals and elimination of conventional cap and spring sealing mechanisms.

Compax® affords a high-capacity, high efficiency separation element with 1/4 to 1/2 the disposal volume of conventional cored filters, minimizing disposal volumes and costs associated with spent element disposal.

Coupled with Pentair's Nex-Sys™ program, it is possible to upgrade conventional string-wound housings with a large number of filters, experiencing bypass around the caps and springs, to a system with positive seals, and effective fluid quality management.

BENEFITS

REDUCED DISPOSAL VOLUMES

Compax® Coreless elements have no inner core as other particle filters. This lack of an inner core in each filter allows compaction of the dirty/used filters to around 1/5th of their original size thereby reducing your disposal volumes and associated disposal costs.

STRONGER RESISTANCE

The semi-permanent core gives the Compax® element stronger collapse pressure resistance. It is rated at a differential pressure of 75 psid; however we recommend changing out the filters at 25-35 psid.

HANDLES FOR EASY EXTRACTIONS

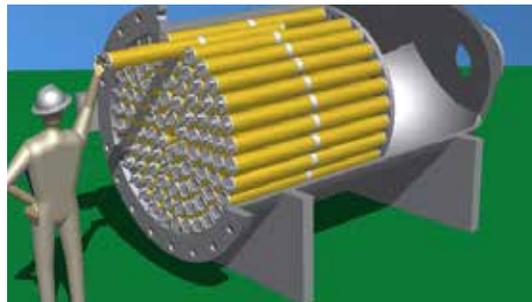
No caps or springs. To install, you simply slide the filter over a semi-permanent core until the O-Ring seal engages on the base. To extract the Compax® Coreless filter, one simply pulls on the handle.

SECONDS TO INSTALL

It takes seconds (not minutes) to install and extract - thereby making operators around the world our biggest fans.

LESS EXPENSIVE

The lack of the inner core allows for savings!



No capital expense. No cutting, welding. No more tie rods, V-posts, caps & springs, inefficient bags and no more tools.

Better efficiency. Less Waste.



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