

TECH SPEC

ULTRA FILTER-SEPARATORS

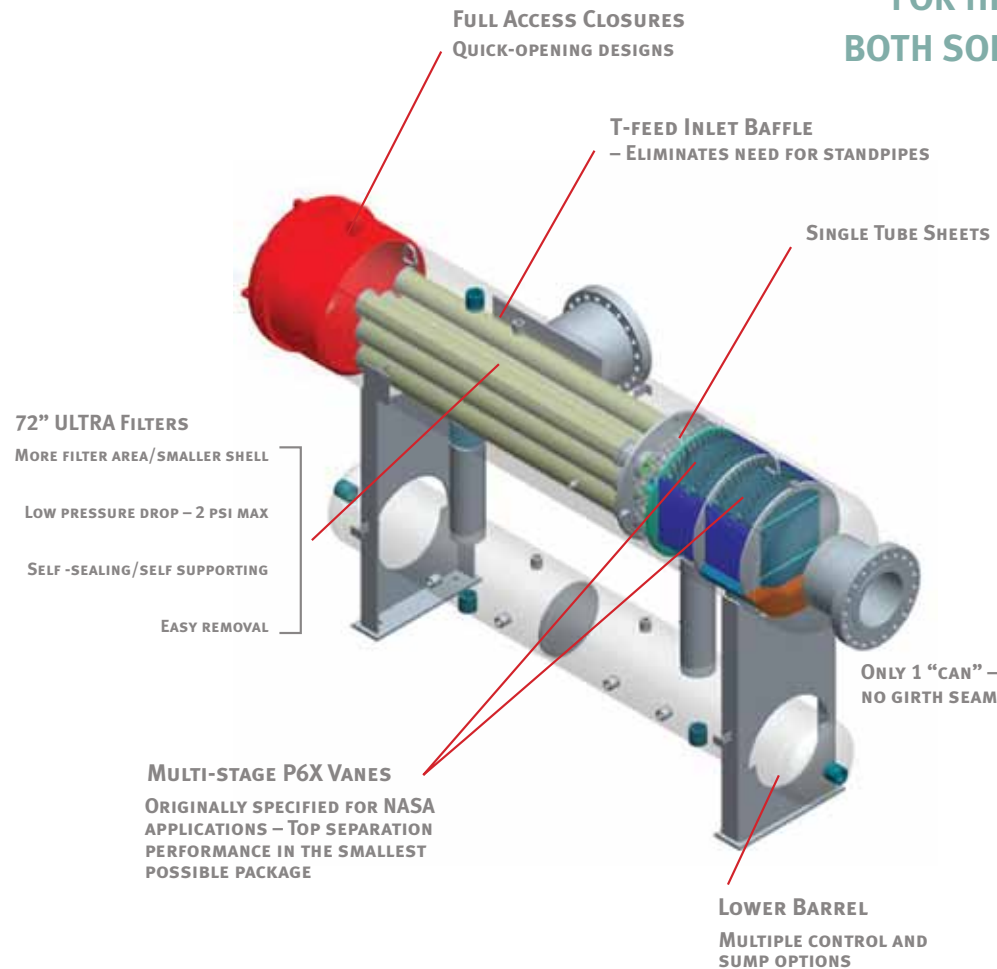


SEE WHAT PEERLESS CAN DO FOR YOU. FOR HIGH-EFFICIENCY SEPARATION OF BOTH SOLID AND LIQUID CONTAMINANTS

PEERLESS PERFORMANCE FEATURES

Peerless Ultra Filter-Separators have more filter surface area and our finest P6X liquid separation vanes in a compact, cost efficient package. This helps protect valuable mechanical equipment using optimized filtration-separation equipment. For vessels above 36" in diameter, the Ultra design can offer a 10-20% or more savings in initial capital investment vs. other filter-separators.

The Ultra was designed and developed at the Peerless Research and Development labs in Texas. Furthermore, 3rd party independent lab test results confirmed the removal efficiency stated in the Peerless performance guarantee and proved the Ultra's superior performance against other filter-separators.



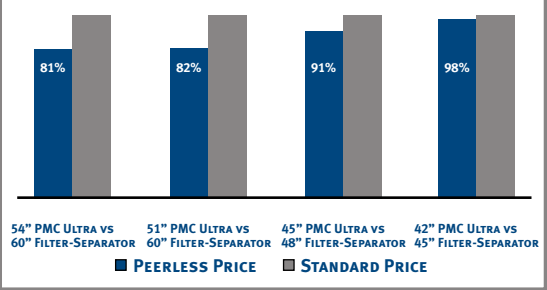
TYPICAL APPLICATIONS:

- GAS DISTRIBUTION SYSTEMS
- COMPRESSOR STATIONS
- PIPELINES
- METERING AND REGULATION STATIONS
- NATURAL GAS PLANTS
- POWER PLANTS
- REFINERIES/PETROCHEMICAL PLANTS
- CHEMICAL PLANTS

PERFORMANCE GUARANTEE

- 99.99% BY MASS OF INCOMING LIQUID DROPLETS 0.5 MICRONS AND LARGER
- 99.99% BY MASS OF INCOMING SOLID PARTICLES 0.3 MICRONS AND LARGER

PEERLESS ULTRA FILTER-SEPARATORS - BETTER PERFORMANCE, MORE COMPACT, AND LESS EXPENSIVE THAN STANDARD OFFERINGS



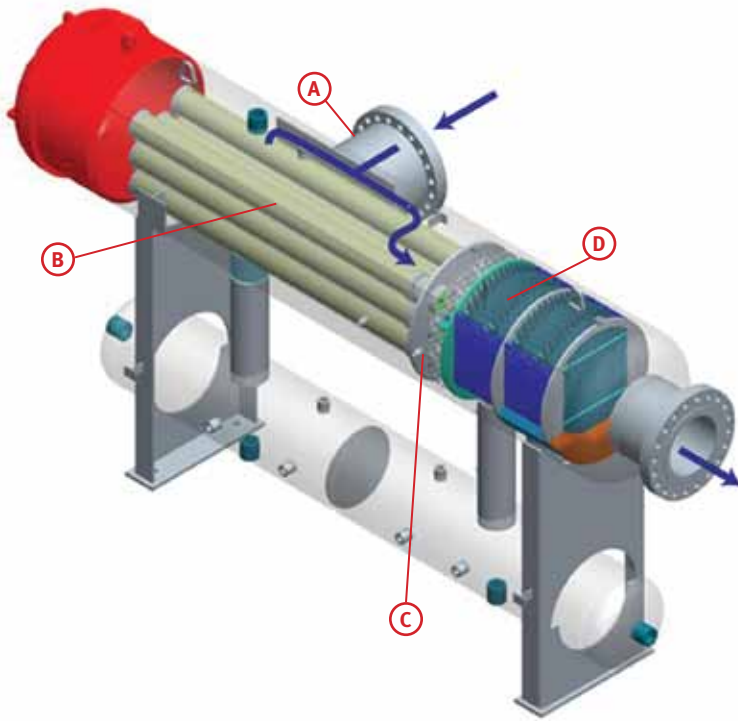
A PEERLESS ULTRA FILTER-SEPARATOR IS OPTIMIZED TO REMOVE SOLID PARTICLES AND LIQUID DROPLETS WITH ULTRA HIGH EFFICIENCIES WHILE GIVING OUR CUSTOMERS SIGNIFICANT COST SAVINGS.



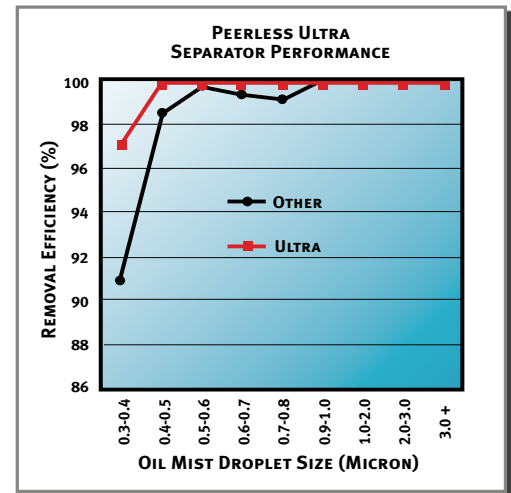
CONSULT A PEERLESS SPECIALIST FOR YOUR SEPARATION, RETROFIT AND SPARES REQUIREMENTS.

PRINCIPLE OF OPERATION

- (A) T-baffle deflects incoming flow, eliminating the need for standpipes, and distributes the solid and moisture-laden gas into the filter chamber.
- (B) Incoming flow with entrained solids/liquids pass outside-in through the filter media where solids are removed and small droplets are coalesced. Bulk liquids are also removed in the first stage.
- (C) Gas and coalesced liquids travel through the tube sheet.
- (D) Remaining coalesced liquids are directed to the high efficiency P6X Vanes. Liquids captured in the vanes are drained away from the gas stream.



THIS ULTRA FILTER-SEPARATOR IS INSTALLED IN A METERING STATION IN CANADA. IT'S 48" HOUSING UTILIZES A FULL DIAMETER, QUICK-OPENING CLOSURE..



THE DROPLET REMOVAL EFFICIENCY IS SHOWN IN THE GRAPH ABOVE. FOR COMPARISON, A DIFFERENT ELEMENT WAS ALSO TESTED BY THIRD PARTY LAB AND THE RESULTS ARE PLOTTED AGAINST THE ULTRA TO ILLUSTRATE THE SUPERIOR PERFORMANCE OF THE ULTRA FILTER-SEPARATOR.

PEERLESS Mfg. Co.
 MAKING ENERGY SAFE, EFFICIENT, AND CLEAN.

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