



OPTIMIZED STEAM SEPARATION SOLUTIONS FOR GEOTHERMAL POWER PLANTS

Leveraging 40+ Years of Expertise and Proven CFD Design Standards to Maximize Thermal Performance and Protect Critical Equipment.

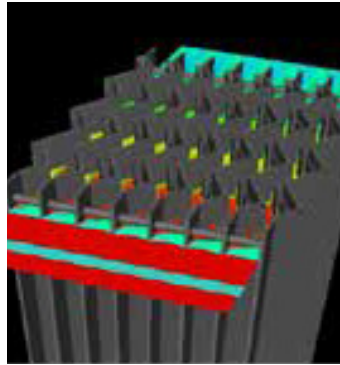
Peerless utilizes Computational Fluid Dynamics (CFD) simulations and proven design standards to create optimized solutions for Steam Separators at the wellhead and Steam Scrubbers at the steam turbine inlet, ensuring equipment protection and maximizing thermal performance in Geothermal Power Plants.



PEERLESS SEPARATION EXPERTISE:

Powering 30+ Successful Projects

With 40+ years of geothermal separation experience and over 30 projects in operation, Peerless and its legacy Burgess Manning Brand provide expertise in Centrifugal and Vane separation systems to meet steam dryness requirements.



NORTH SUMATRA, INDONESIA

Steam Separators and Steam Purifiers for 3 x 110MW Geothermal Power Plant.

PARAMETERS

Separators	Vane Purifiers
289,500 kg/hr steam flow	579,000 kg/hr steam flow
99.5% steam dryness	99.9% steam dryness

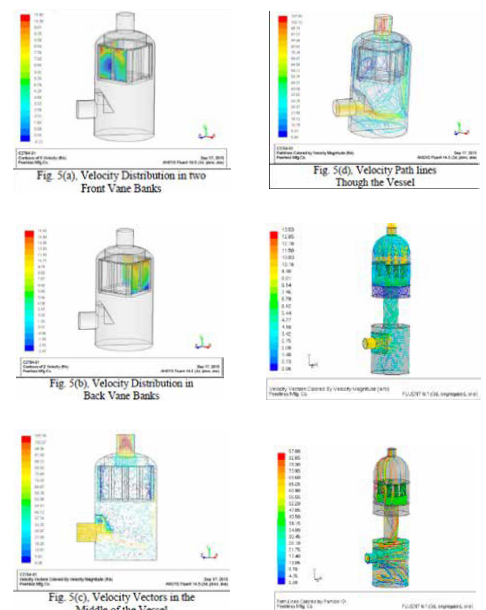


PEERLESS EXPERTISE

Peerless specializes in the design, fabrication, and site commissioning of steam separators and scrubbers for geothermal power plants. Depending on the operator's required steam quality and process conditions, we offer both vane-type and cyclone-type separation designs. Leveraging an extensive network of fabrication partners, we maximize local content across the Southeast Asia region. Our installations include multiple sites in Indonesia, notably one of the world's largest geothermal power plant at Sarulla, generating 3 x 110MW of electric power.

Beyond fabrication, Peerless oversees the mechanical design of pressure vessels and the performance design of separation internals. As illustrated below, steam flow within the vessel is optimized for bulk water knock-out at the inlet and fine droplet separation using a 4-bank vane unit. These proven separation methods are also successfully applied in oil & gas, chemical, and commercial nuclear power plant steam systems.

Explore our website or connect with our local technical sales team to discover the full range of Peerless oil and gas processing technologies and learn how they can be tailored to meet your complete processing needs.



Visit: <https://www.cecoenviro.com/brands/peerless-separation-filtration/>