Steam turbine generator air intake and exhaust

Steam turbines are capable of operating over a very broad range of steam pressures. Utility steam turbines operate with inlet steam pressures up to 3500 psig and exhaust at vacuum conditions as low ...

As hot combustion gas expands through the turbine, it spins the rotating blades. The rotating blades perform a dual function: they drive the compressor to draw more pressurized air into the combustion ...

By directly cooling exhaust steam with ambient air, ACCs eliminate the need for cooling towers and large volumes of water, making them ideal for regions with limited water availability or stringent ...

Customers around the world trust Dürr Universal"s combustion turbine filtration systems to clean and condition inlet air for power generators in both onshore and offshore applications.

This engineering design guideline covers the basic elements of Steam Turbines in sufficient detail to allow an engineer to design a Steam Turbine with the suitable inlet and exhaust diameter, Steam ...

GE Vernova offers an innovative forced-air cooling system for GE Vernova and non-GE Vernova turbines, able to improve availability of the unit by reducing the outage duration.

The steam generator, which includes the air heater, burns the fuel-air mixture, recovers the heat, and generates the controlled high pressure and high temperature steam.

The main objective of the study is to configure the size of heat exchanger for cooling of turbine air intake using chilled water from steam absorption chiller to enhance the efficiency of gas turbine.

Using the Ebsilon software, we investigate the thermal performance of the gas cycle, steam cycle, and the overall gas-steam combined cycle under various off-design operating ...

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