



Peerless Europe

Incorporating:  BURGESS-MANNING EUROPE



DeNOx systems

making energy safe, efficient and clean



Peerless, a recognised global leader committed to innovation, its people and a better world, by creating engineering solutions for the energy industry.



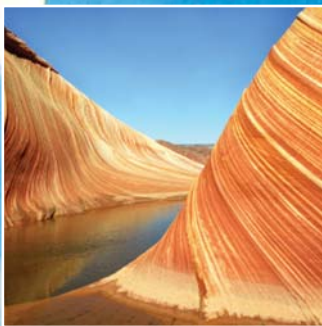
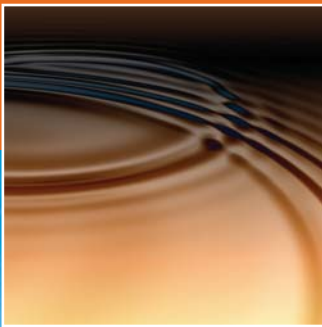
Peerless DeNOx Systems

Peerless is a global leader in the design, manufacture, installation and retrofit of emission abatement systems. With over 700 systems in service, Peerless has earned an international reputation for unparalleled quality and customer service.



Peerless Support Services

The aftermarket sales and spare parts support from our UK office, with state-of-the-art performance simulation and testing at our Dallas-based parent company, provides our clients with an industry leading service and support package, from first contact through to installation and beyond.



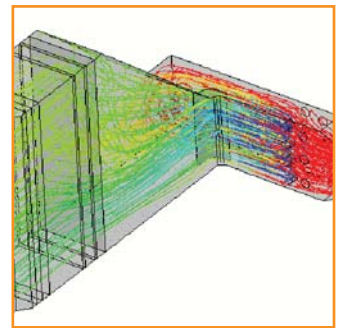
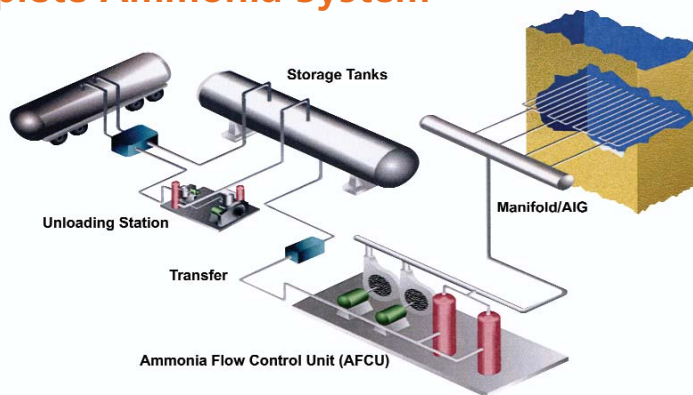
Fully Integrated Systems

Peerless specialise in the design, engineering and supply of complete emission abatement systems, which include:

- SCR Catalyst
- CO Catalyst
- Reagent Storage and Handling Equipment
- Reagent Control, Vaporisation and Optimised Distribution
- Integration Control, including Continuous Emission Monitoring System (CEMS)
- Ducting, Catalyst Reactor Housing, Transitions, Silencer and Stack
- Tempering Air Equipment for Cooling Exhaust
- Computational Fluid Dynamics
- Installation

Peerless provides performance guarantees for the entire SCR system.

Complete Ammonia System





Selective Catalytic Reduction (SCR)

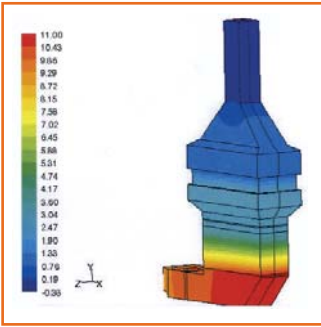
The cornerstone of the Peerless environmental systems business is its selective catalytic reduction (SCR) systems.

As flue gases are combusted in industrial sources such as gas turbines and process furnaces, nitrogen oxides (NOx) are formed.

- Selective Catalytic Reduction (SCR) is a post-combustion nitrogen oxides (NOx) control technology capable of achieving NOx reductions in excess of 90 percent
- Universally recognised as the most effective and proven DeNOx technology

The high NOx reductions are achieved by optimally distributing an ammonia (NH3) based reagent into the flue gas, which then passes through layers of catalyst. The NH3 and NOx react on the surface of the catalyst, forming harmless nitrogen (N2) and water.

- SCR is adaptable to a wide range of temperature and service conditions
- SCR has been applied to various fuel types including;
 - Gas
 - Coal
 - Fuel Oil
 - Biomass
 - Crude Oil

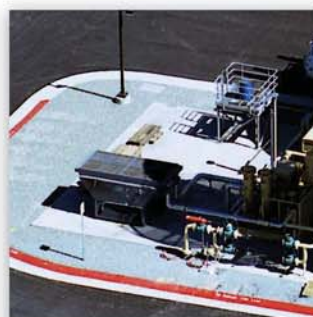
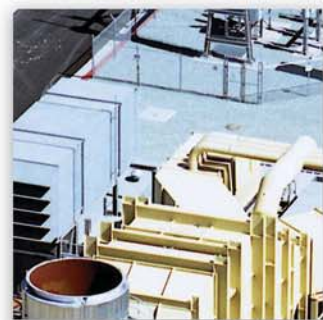


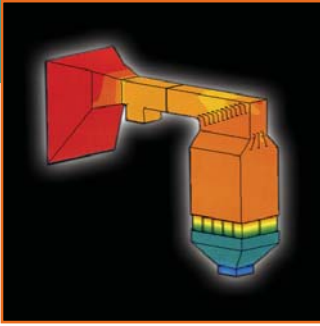
Reagents

Peerless specialises in the design and supply of SCR systems utilising the following reagents;

Anhydrous Ammonia

- Concentrated Ammonia (NH3) with a Purity Level of 99.95%
- Stored as a Liquid Under Pressure
- Lowest Equipment and Operating Costs
- Safety Concerns





Aqueous Ammonia

- Mixture of Ammonia with Water
- Usually 19% to 29% Ammonia by Weight
- Vaporisation of the Aqueous Ammonia Solution is Required
- Higher Equipment and Operating Costs than Anhydrous



Urea

- Higher Equipment and Higher Operating Costs than Aqueous

Applications

Peerless has unequalled experience in the design and supply of SCR systems, which have been installed in a wide variety of applications including;

- Combustion Turbines (both in combined cycle and simple cycle operation)
- HRSG
- Packaged Boilers
- Auxiliary Boilers
- Fired Heaters
- Process Furnaces
- Reformer Furnaces
- Glass Furnaces
- Waste Incinerators
- Waste to Energy Plants

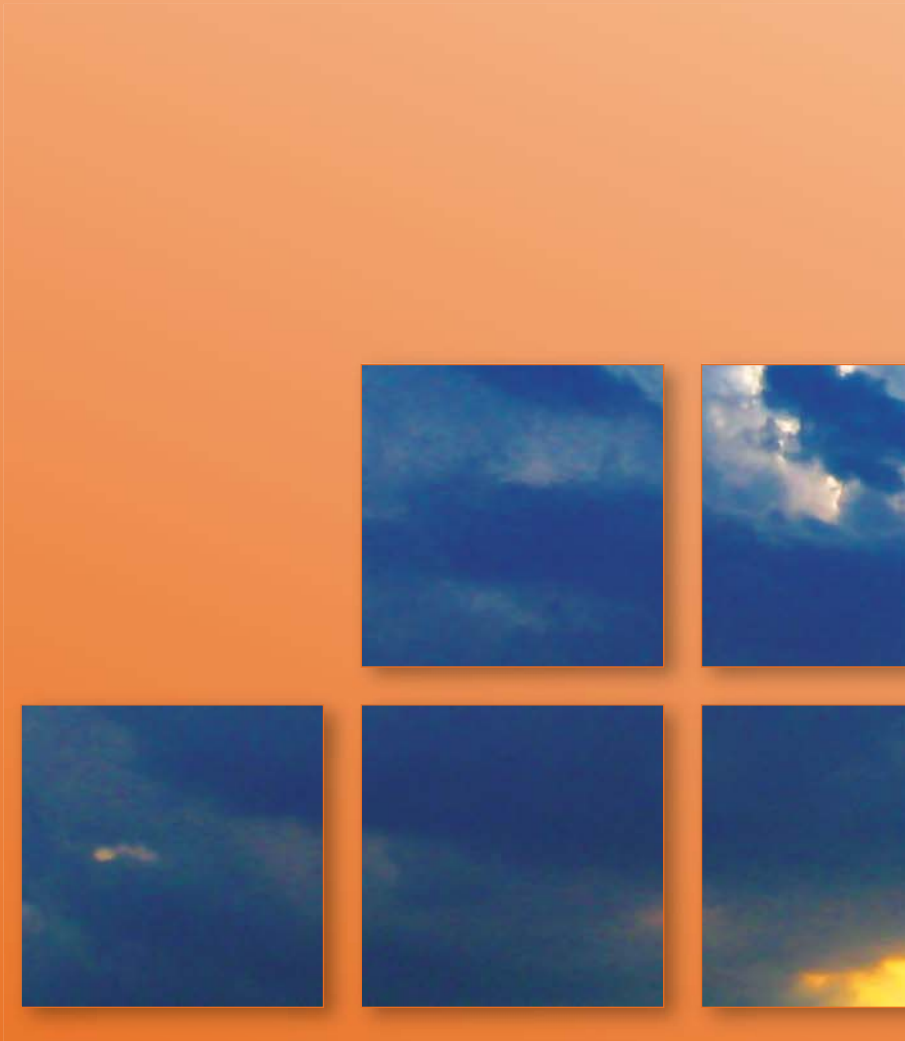


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