

FORNEY

POWER

Field-proven performance accessories for your SCR system



SCR Control • SCR Reheaters • CEMS • Ammonia Vaporizers • Ammonia Skids

FORNEY PROVIDES COST-EFFECTIVE SOLUTIONS FOR YOUR EMISSIONS MONITORING AND SCR CATALYST ACTIVATION NEEDS.

Today's demanding operating conditions are pushing coal plants to be more flexible while cutting emissions. Forney Corporation, a leader in utility boiler accessories for 75 years, offers a family of cost-effective, high performance accessories for SCR and SNCR systems.

CEMPlicity SYSTEM

For stack monitoring or SCR control, the Forney CEMplicity system offers CEMS reliability at an in-situ price. The Forney CEMplicity analyzer measures NO_x, CO, NH₃ or O₂ using high quality chemiluminescent and paramagnetic analyzers for SCR control or process monitoring. Pre-engineered and pre-packaged to reduce cost, the CEMplicity consists of a sample probe, umbilical, sample conditioners, and analyzers controlled by an industrial PC in a climate-controlled enclosure. Data is exported by a 4-20 mA analog signal, ethernet, and is recorded on an internal CD-RW drive.

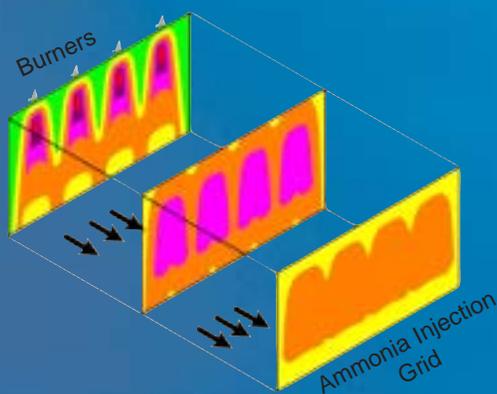
SCR REHEAT BURNERS

As a less capital-intensive alternative to economizer by-pass systems, Forney has supplied SCR reheat burners for several large coal-fired utility boilers. Forney's SCR reheaters pump heat into the flue gas stream, thereby maintaining a flue gas temperature that ensures maximum SCR efficiency. Forney can design a system, sure to satisfy your installation requirements, for any configuration using one of three solutions.

Register Style Burner - is designed for high ash environments. It eliminates the problems of slagging, ash build-up, and burner fouling by allowing the combustion equipment to operate outside the boiler flue gas duct. Also, the external burners do not increase system pressure drop, making them ideal for retrofit applications.

Grid Style Burner - is well suited for low dust flue gas streams and when boiler arrangement does not permit an external SCR reheater system. Forney's reliable duct burner provides a compact in-duct burner system for flue gas temperature control. The duct burner solution minimizes heat input requirements and ongoing operating costs by providing reliable and even heat distribution for effective SCR operation.

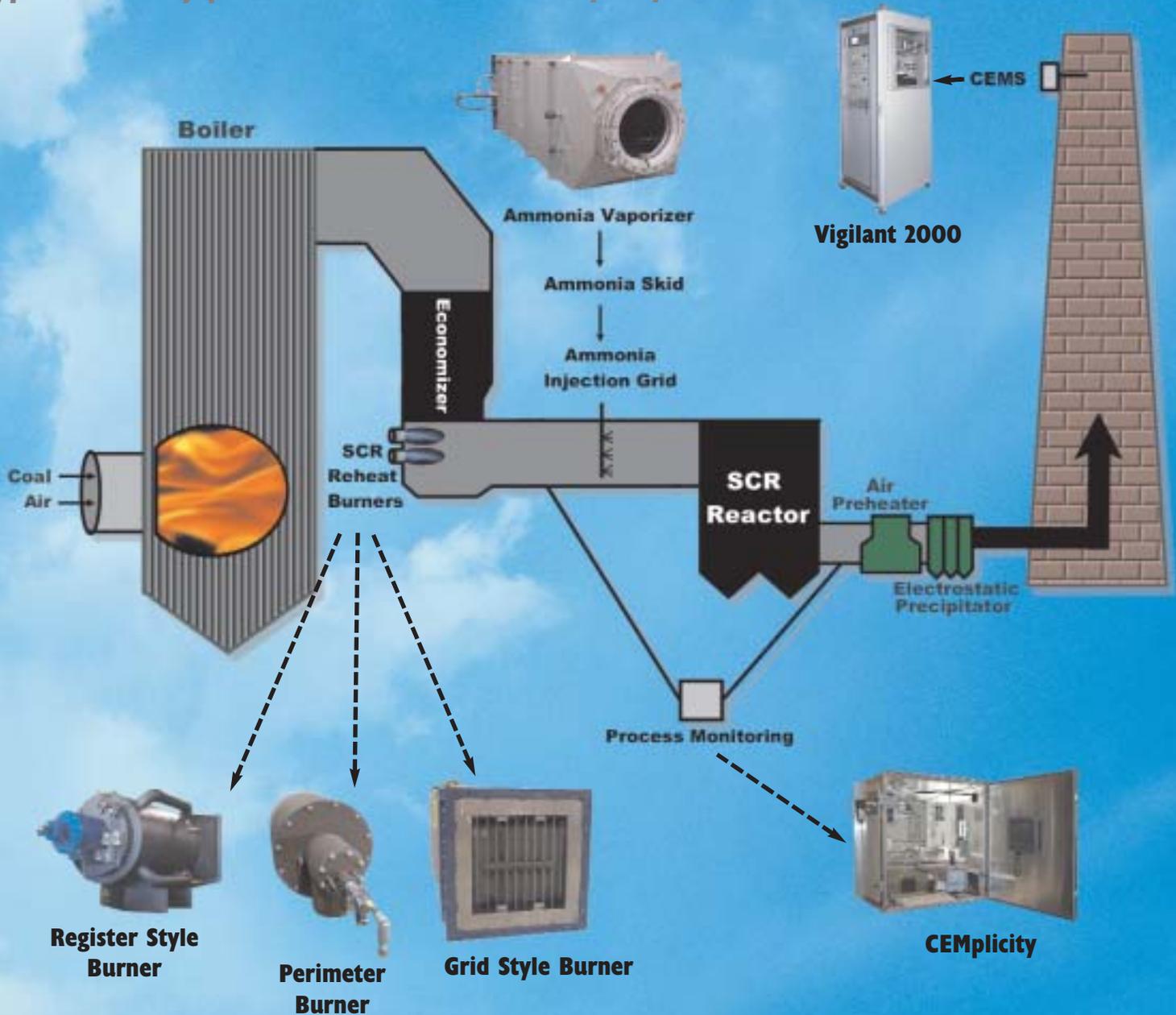
Perimeter Burner - combines the benefits of both in-duct and external duct firing solutions. Strategically mounted directly on the SCR inlet ductwork, perimeter-fired burners inject high velocity, high temperature air directly into the boiler flue gas stream to achieve even mixing and a uniform temperature profile to the ammonia injection grid without internal mixing devices. Because of their light weight and small footprint, Forney perimeter-fired burners are easy to apply in the tight space requirements common in retrofit applications.



Forney's "Plug-n-Play" heating system uses perimeter-fired burners that produce a high velocity stream of hot air that entrains flue gas for even temperature distribution. Burner design and layout is proven using computation fluid dynamics modeling.

Forney's skid-mounted system includes gas or oil burner, igniter, flame detector, combustion air blower, combustion chamber, and BMS system.

Typical Forney products on a SCR retrofit of a coal boiler.



AMMONIA / UREA VAPORIZERS

Forney's vaporization burner systems work in conjunction with the ammonia / urea injection system to ensure proper vaporization. For larger SCR/SNCR systems, gas-fired vaporizers are more economical than electric heaters. Based on extensive igniter experience, Forney developed complete ammonia/urea vaporizers with heat inputs as low as 1 mmbtu/hr. Complete skid-mounted system includes a gas or oil burner, igniter, flame detector, combustion air blower, combustion chamber, and BMS system.

VIGILANT 2000 CEMS SYSTEM

Complete 40CFR Part 60 or Part 75 Continuous Emissions Monitoring using full extraction or dilution extraction technology for clean or dirty sample streams. The Vigilant CEMS system is offered in an economical standard package or can be custom engineered to meet any specification.

Contact your local Forney representative to learn more about the full line of Forney products.

- Flame Detectors
 - CEMS
- Burner Management Systems
 - Burners
 - Duct Burners
 - Igniters

Forney's factory trained technicians provide safe and efficient execution of all your service agreements, including PM contracts, Start-up and Commissioning Services, Outage and Product Support.



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