

PRODUCT SPECS



GREEN MACHINE BY PEERLESS
NOx CONTROL SYSTEM FOR INDUSTRIAL BOILERS

NOx REDUCTION IS EASY WITH GREEN MACHINE

Industrial boiler users are facing ever more stringent air pollution regulations, and Green Machine by Peerless allows them to meet their NOx emission objectives. Green Machine is a selective catalytic reduction (SCR) system applied by Peerless on over 500 units, including nearly 50 package boilers. Peerless' pre-engineered, standard sized Green Machine fits a variety of package boiler arrangements making it simple to add to new or existing boilers with little modification. With Green Machine's high NOx reduction capability, FGR can be reduced or eliminated improving operational stability, safety and efficiency. Get clear results from Peerless and Green Machine.

SPECIFICATIONS AND SYSTEM PERFORMANCE

Temperature	325 to 750 degrees F
NOx inlet	Up to 200 ppmvd
NOx efficiency	95 percent (and greater) reduction
NOx emission	Per regulatory requirements, designs down to 2 ppmvd
NH3 emission	Per regulatory requirements
Pressure drop	1 to 4 inches wc

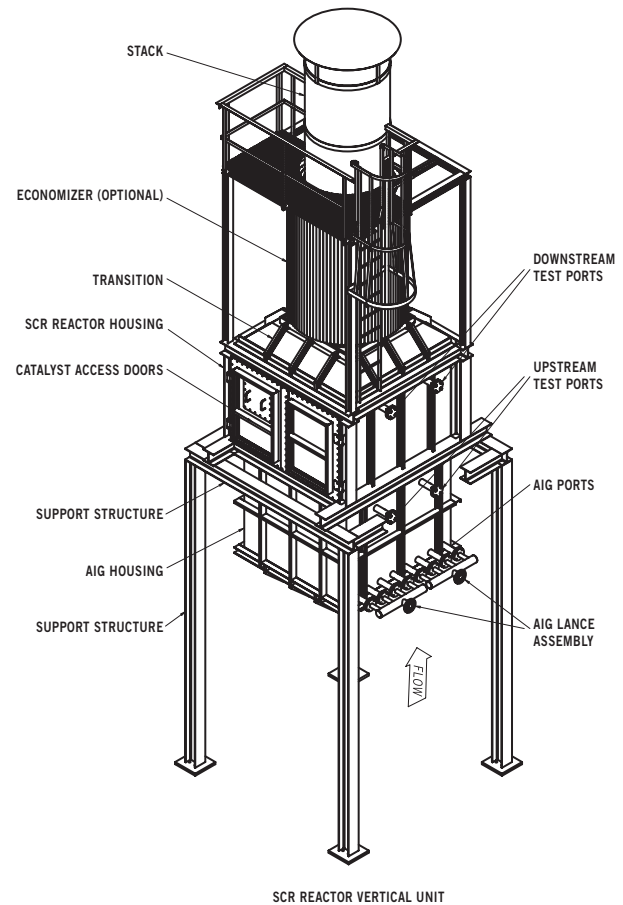
FEATURES AND BENEFITS

- Vertical or horizontal exhaust flow orientation to simplify installation
- Standard sizes to fit a wide variety of boilers and regulatory requirements
- Pre-engineered and pre-fabricated for low cost
- CFD optimized designs
- Complete system warranty
- Easy installation typically requiring only electrical supply
- Low pressure drop
- Integrated ammonia injection grid

OPTIONS

- Support structures
- Transition pieces
- Reagent storage and supply system
- Integrated control systems
- CFD modeling
- Custom designs
- Technical support, personnel training and field services
- Turnkey supply
- System and catalyst maintenance programs

STACK MOUNTED MODEL



EXPERIENCE

Peerless has provided Green Machine to a wide range of boilers operating on a variety of fuels.

USER	UNITS	SIZE - (STEAM/HP)	DESCRIPTION	FUEL
Atofina	1	200,000 lb/hr	Package watertube boiler	Styrene tar
Gillette Company	1	120,000 lb/hr	Package watertube boiler	Natural gas
Los Medanos	1	260,000 lb/hr	Nebraska Boiler package watertube boiler	Natural gas
Merck	2	75,000 lb/hr	Package watertube boilers	Natural gas; Refinery gas
Merck	3	180,000 lb/hr	Rentech package watertube boilers	Natural gas; 2 oil
Calpine - Dow	1	250,000 lb/hr	Foster Wheeler package watertube boiler	Natural gas
Sabina Refinery	1	200,000 lb/hr	ABCO package watertube boiler	Natural gas
Corrugated Synergies	1	500 HP	Firetube boiler	Natural gas
Coca Cola Bottling	2	650 HP	Firetube boilers	Natural gas
Demapong Textile	1	450 HP	Sellers Engineering firetube boiler	Natural gas
JS Knitting	1	600 HP	Hurst Boilers firetube boiler	Natural gas
Supreme Tex	1	450 HP	Sellers Engineering firetube boiler	Natural gas
Children's Hospital	2	(2) 25,000 lb/hr (1) 35,000 lb/hr	Nebraska Boiler package watertube boilers	Natural gas
Merck	1	211,000 lb/hr	ABCO package watertube boiler	Natural gas; 2 oil
Valero	1	200,000 lb/hr	Package watertube boiler	Refinery gas
Air Liquide	1	300,000 lb/hr	Zurn package watertube boiler	Natural gas
OxyChem	1	190,000 lb/hr	ABCO package watertube boiler	Natural gas; hydrogen
Powerine Oil Company	1	50,000 lb/hr	Holman Boiler Works package watertube boiler	Natural gas
ExxonMobil	2	241,000 lb/hr	ABCO package watertube boilers	RFG; butane
Lockheed Martin	1	75,000 lb/hr	Nebraska Boiler package watertube boiler	Natural gas
Hanford Cogen	1	68,000 lb/hr	Nebraska Boiler package watertube boiler	Natural gas

