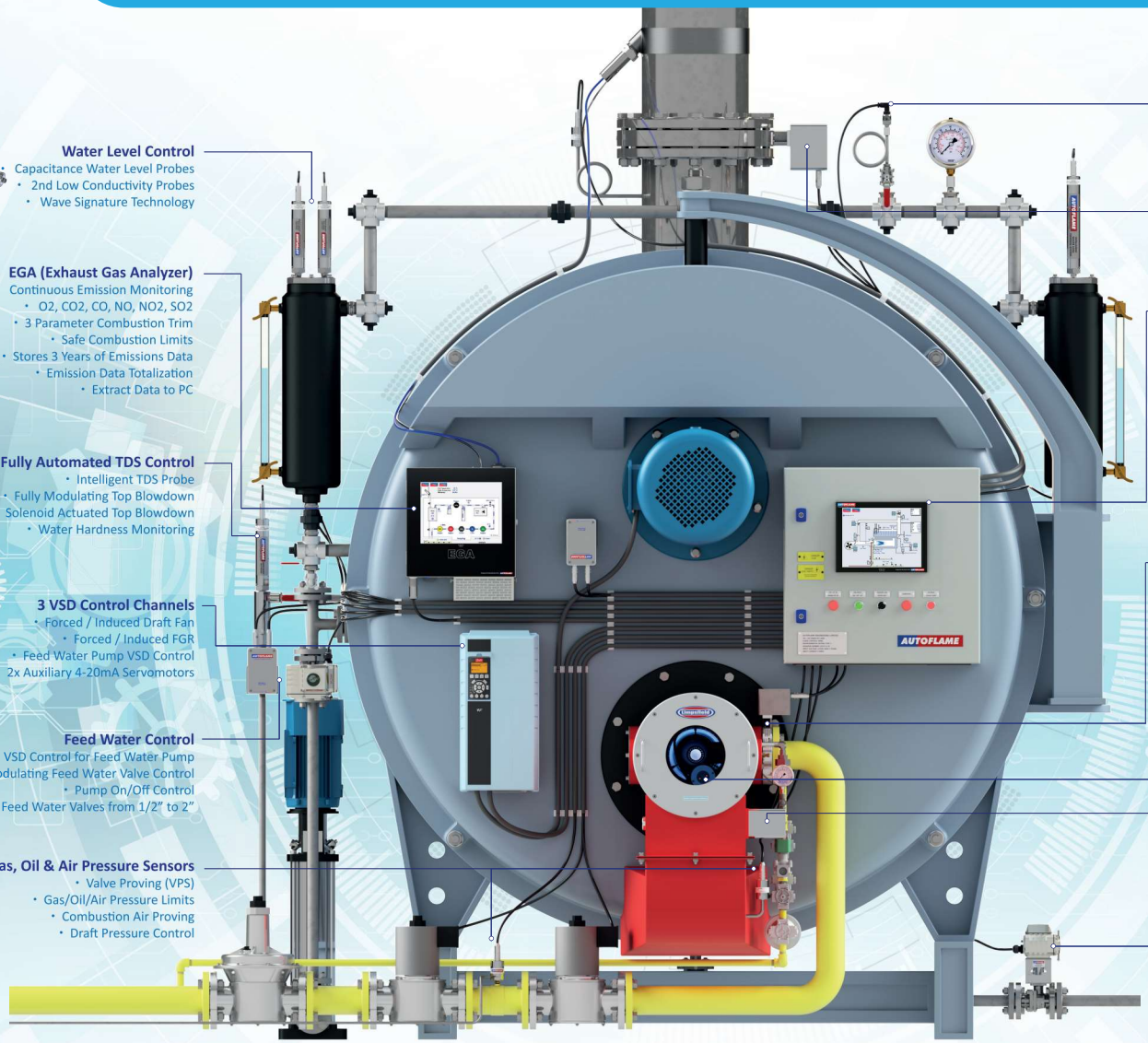
Combustion Management Systems

AUTOFLAME

Precise, Intelligent Control



Water Level Control
- Capacitance Water Level Probes
- 2nd Low Conductivity Probes
- Wave Signature Technology

EGA (Exhaust Gas Analyzer)
- Continuous Emission Monitoring
- O2, CO2, CO, NO, NO2, SO2
- 3 Parameter Combustion Trim
- Safe Combustion Limits
- Stores 3 Years of Emissions Data
- Emission Data Totalization
- Extract Data to PC

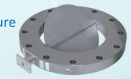
Fully Automated TDS Control
- Intelligent TDS Probe
- Fully Modulating Top Blowdown
- Solenoid Actuated Top Blowdown
- Water Hardness Monitoring

3 VSD Control Channels
- Forced / Induced Draft Fan
- Forced / Induced FGR
- Feed Water Pump VSD Control
- 2x Auxiliary 4-20mA Servomotors

Feed Water Control
- VSD Control for Feed Water Pump
- Modulating Feed Water Valve Control
- Pump On/Off Control
- Feed Water Valves from 1/2" to 2"

Gas, Oil & Air Pressure Sensors
- Valve Proving (VPS)
- Gas/Oil/Air Pressure Limits
- Combustion Air Proving
- Draft Pressure Control

Load Detectors
- Steam Pressure Detectors
- Temperature Detectors
- Stack or Coil Temp. Monitoring



Draft Pressure Control
- Maintains Commissioned Pressure
- Up to 36" Diameter Valves
- Aluminium / Stainless Steel

Mk8 Micro Modulation
- 4 Fuel Curves
- Intelligent Boiler Sequencing (IBS)
- Multi-Burner Operation
- Flue Gas Recirculation Control
- PID Control
- Operation & Setpoint Scheduling
- Direct Modbus
- Heat Flow Metering
- Fuel Flow Metering
- Fully Metered Combustion
- Fuel Change on the Fly
- Available in Custom-Built Panels

Gas & Oil Valves
- Fully Independent Fuel / Air Ratio Control
- CNC Machined
- Threaded / Flanged
- Aluminium / Stainless Steel

UV & IR Flame Scanners
- Self-Check Option
- Standard / High Sensitivity
- End / Side View
- Dual UV and/or IR Scanner Operation

5 Servomotor Channels
- 4 to 400Nm range
- 0.1° Accuracy
- Guaranteed Repeatability
- Fuel, Air, FGR & Draft Control
- 4-20mA Servomotors Range

Fully Automated Bottom Blowdown
- Timed Bottom Blowdown Control
- Fully Modulating Blowdown Valve
- Solenoid Actuated Blowdown
- Time Reduction Function

PATRIOT BOILER

Factory Authorized Technology Center

Quality Installation, Service & Support