

# Centauri<sup>®</sup> CONDENSING WATER BOILER

## 1,500,000 to 2,000,000 BTU

### STANDARD FEATURES AND EQUIPMENT

#### Performance

- Up to 94% efficiency at low fire with low return temp
- Inward-fired burner technology with seamless modulation capable of 10-to-1 turndown
- Low NOx emissions - SCAQMD compliant  $\leq 15$  ppm (no derate or efficiency reduction to obtain  $\leq 15$  ppm)
- Ducts direct combustion air up to 100 equivalent feet through 6" diameter material (requires UL approved vent cap, see optional equipment list)
- Direct vents up to 100 equivalent feet through 6" diameter material (UL approved vent cap supplied)

#### Burner, Combustion Controls & Operating Controls

- Pre-mix, surface burner with proportional gas/air control and variable speed blower motor
- Electronic ignition control with pre- and post-purge
- Electronic operating control with digital readout
- Firing cycle status panel lights
- Flame failure audible alarm (72dB) and indicating panel light with remote dry contacts
- Dual temperature limits with manual-reset on high-limit temperature control
- Manual-reset, electronic low-water cutoff with test switch (no lockout on power loss)
- Boiler water pressure gauge
- High and low gas pressure switches
- CSD-1 compliant, FM compliant
- Intertek / ETL listed to U.S. and Canadian standards
- Maximum 240°F operating limit
- Combustion air filter

#### Pressure Vessel and Heating Tubes

- Vertical fire tube construction
- Medium water mass design
- ASME "H" stamped and National Board Registered for 150 psi design pressure
- Condensing fire tubes are constructed from duplex alloy stainless steel
- ASME safety relief valve (50 psi installed as standard)
- Handhole cleanout
- Blowdown valve
- Brass condensate drain
- Steel skids
- Fiberglass tank insulation
- Steel jacket with industrial finish

#### Remote/Network BAS Interface

- Modbus protocol on operating control through a 485 serial connection (optional cable required)
- Remote on/off terminals
- Remote 4-20mA or 0-10V modulation control terminals

#### Warranty and Service Policy

- Ten-year pressure vessel workmanship, materials and thermal shock warranty \*
- "Service Advantage Plan" covering parts, materials, freight and labor on any repair or replacement for the first year of operation \*

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#### OPTIONAL EQUIPMENT

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| <input type="checkbox"/> Extended "Service Advantage Plan" covers freight and labor on a vessel replacement for 10 years *                             | <input type="checkbox"/> 4" ANSI Flange (150#) for Supply and Return Connections   |
| <input type="checkbox"/> LP gas operation  | <input type="checkbox"/> Air vent valve  |
| <input type="checkbox"/> Dual fuel, combination natural and LP gas   | <input type="checkbox"/> High water pressure safety switch   |
| <input type="checkbox"/> ____ psi safety relief valve (30, 75, 100, 125 or 150)  | <input type="checkbox"/> Low water pressure safety switch  |
| <input type="checkbox"/> Modbus cable for operating control (adds alarm on any failure) (required for boilers connected to OnTrac BMS or building BAS) | <input type="checkbox"/> Water flow switch (field installed)   |
| <input type="checkbox"/> 95dB local audible alarm  | <input type="checkbox"/> Gas pressure gauge  |
| <input type="checkbox"/> 'Plain Language' diagnostic readout for safety circuit faults with a remote alarm relay                                       | <input type="checkbox"/> Pounds to ounces gas regulator (for source pressures above cataloged standards) (field installed)               |
| <input type="checkbox"/> Combustion air interlock  | <input type="checkbox"/> Main electrical disconnect switch (field installed)   |
| <input type="checkbox"/> Remote equipment switch (120V, 10A max.)  | <input type="checkbox"/> 240V, 1Ø supply voltage   |
| <input type="checkbox"/> Condensate neutralization system  | <input type="checkbox"/> 208/230, 3Ø supply voltage  |
| <input type="checkbox"/> Float-type low-water cutoff with blowdown and air vent (requires additional clearance, consult factory)                       | <input type="checkbox"/> 480V, 3Ø supply voltage   |
|  | <input type="checkbox"/> 120V control circuit transformer (required for any supply voltage other than 120V. Mounts remotely from boiler) |
|  | <input type="checkbox"/> UL approved vent cap for direct combustion air  |

\* see warranty or service policy for details