

VT3
VERTICAL FIRETUBE, NON-CONDENSING WATER BOILER
1,500,000 to 2,000,000 BTU
STANDARD FEATURES AND EQUIPMENT

Performance

- 84% thermal efficiency
- Full modulation with a 4-to-1 turndown
- Low NOx emissions - SCAQMD compliant < 20 ppm
- Operates on 4.5" W.C. gas pressure
- Ducts direct combustion air up to 100 equivalent feet through 6" diameter material (requires UL approved vent cap, see optional equipment list)

Burner and 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
- Indicating light for flame failure with remote indication 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)
- Pressure gauge on tank
- 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
- Draft regulator

Pressure Vessel and Heating Tubes

- Vertical fire tube, 3-pass, steel boiler construction
- Medium water mass design
- ASME "H" stamped and National Board Registered for 150 psi design pressure
- ASME pressure relief valve (50 psi installed as standard)
- Handhole cleanout
- Blowdown valve
- Steel skids
- Fiberglass tank insulation
- Steel jacket with industrial finish

Remote/Network BAS Interface

- Modbus protocol on operating control through 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 *

OPTIONAL EQUIPMENT

- | | |
|--|--|
| <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"/> Cable for operating control Modbus connection (includes alarm on any failure, remote indication contacts and audible indication of alarm) | <input type="checkbox"/> Water flow switch (field installed) |
| <input type="checkbox"/> 'Plain Language' diagnostic readout for safety circuit faults with a remote alarm relay | <input type="checkbox"/> Gas pressure gauge |
| <input type="checkbox"/> Combustion air interlock | <input type="checkbox"/> Pounds to ounces gas regulator (for source pressures above cataloged standards) (field installed) |
| <input type="checkbox"/> Remote equipment switch (120V, 10A max.) | <input type="checkbox"/> Main electrical disconnect switch (field installed) |
| <input type="checkbox"/> Float-type low-water cutoff with blowdown and air vent (requires additional clearance, consult factory) | <input type="checkbox"/> 240V single phase blower motor |
| | <input type="checkbox"/> 208/230 three phase blower motor |
| | <input type="checkbox"/> 480V three phase blower motor |
| | <input type="checkbox"/> 120V control circuit transformer (avoids a separate 120V connection when 3-phase power is used) |
| | <input type="checkbox"/> UL approved vent cap for direct combustion air |

* see warranty or service policy for details