

## Unit No. B-787: 150 Hp, 200 PSIG D.P., #2 Oil and Natural Gas



**Cleaver Brooks Packaged Firetube Boiler; model 4WG-200-150-200ST**, constructed in 2007 in accordance with the ASME Code; Section I, for a design pressure of 200 PSIG steam. The unit is a four-pass wetback design with 750 square feet of fireside heating surface. The shell is insulated with two inches of compressed fiberglass and covered with a heavy gauge sheet steel casing. The fully modulating forced draft burner is integrally mounted, piped and wired on the boiler front allowing for ease of flame observation, set-up and maintenance. Valving trim, controls and ancillary equipment include:

- **Primary low water cut-off** and feed pump control; McD & M No. 193
- **Auxiliary low water cut-off** with manual reset; Warrick C-2 probe type
- **Boiler valve trim**; feedwater stop and check valving, blowdown valves, blow-off valve, vent valve and safety relief valves per ASME code.
- **Water column** with sight glass, gauge cocks and blowdown valve, mounted on the primary low water cut-off.
- **Boiler/Burner control center** consisting of a CB780 primary flame control and detector with an expanded annunciator, motor starters, relays, limit switches, alarm bell, indicating lights, control circuit transformer, elapsed time running meter and potentiometer with selector switch for manual and automatic firing rate adjustment
- **Combustion control system**; CB - Honeywell parallel positioning with touch screen interface (FARC)
- **Steam pressure limit switches**; operating limit, safety limit switch with manual reset, minimum temperature-low fire hold switch and modulating steam pressure controller
- **Front and rear hinged covers**
- **Pressure gauge** with isolation valve and stack thermometer
- **Fuel oil pump set** with starter, relief valve and suction strainer, shipped loose
- **FM Insurance approvals**
- **CSD-1 safety standards** and U.L. Label
- **National Board certified**

### Connections:

Steam Outlet	- 4.0" X 300# Flg
Feedwater	- 1.5" NPT
Blowdown	- 1.5" NPT
#2 Oil, S & R	- 0.75" NPT
Natural Gas	- 2.0" NPT
Exhaust Vent	- 16" Dia.
Primary Electric	- 230-460/3/60 15 KVA

### Dimensions:

Length, overall	- 15' 06"
shell	- 12' 00"
Width, overall	- 7' 08"
shell	- 5' 06"
Height, overall	- 7' 09"
vent	- 7' 09"
Weight, shipping	- 15,000 Lbs
flooded	- 24,000 Lbs

**THIS UNIT IS OFFERED FULLY RECONDITIONED AND SHOP TESTED WITH A ONE-YEAR PARTS WARRANTY, SUBJECT TO PRIOR SALE OR RENTAL.**