



B-869

2009 CBR-200-800-200



GENERAL DESIGN

STANDARDS & CERTIFICATIONS



ASME Section I



National Board
Registered



NFPA-85 Build
Standard



Hartford Steam
Boiler Inspected

MANUFACTURER (OEM)	Cleaver-Brooks
YEAR	2009
SERIAL NO.	T-1296-1-1
NATIONAL BOARD NO.	16316
CRN NO.	M4069.5
MODEL	CBR-200-800-200
ASME CODE SECTION	Section I
TYPE	Scotch
DESIGN	Two-Pass Dryback Firetube
MOUNTING	Saddles & Skid-Mounted
INTERNAL	Corrugated Furnace & Straight Riffled Tubes



CAPACITIES & INPUTS

OUTPUT CAPACITY	27,600 LB/HR
HORSEPOWER	800 BHP
DESIGN PRESSURE (MAWP)	200 PSIG
OPERATING RANGE	80 - 185 PSIG
HEATING SURFACE	2,535 ft ²
MAX. FUEL INPUT	NG: 33,480,000 BTU/HR #2: 239.3 GAL/HR
STANDARD FUELS ¹	Natural Gas & #2 Fuel Oil
ADDITIONAL FUELS ²	
INPUT GAS PRESSURE	MAX: 7.3 PSIG MIN: 5.0 PSIG
TURNDOWN RATIOS	NG: 10:1 #2: 8:1
EMISSION RATING (NOX)	NG: 30 PPM #2: 90 PPM

¹ Standard Fuels: Boiler comes ready to burn these fuels including fuel train, safety devices, integral wiring and delivery systems.

² Additional Fuels: Boiler is capable of running on these fuels but requires modifications to the burner, fuel delivery systems and wiring, at additional cost.



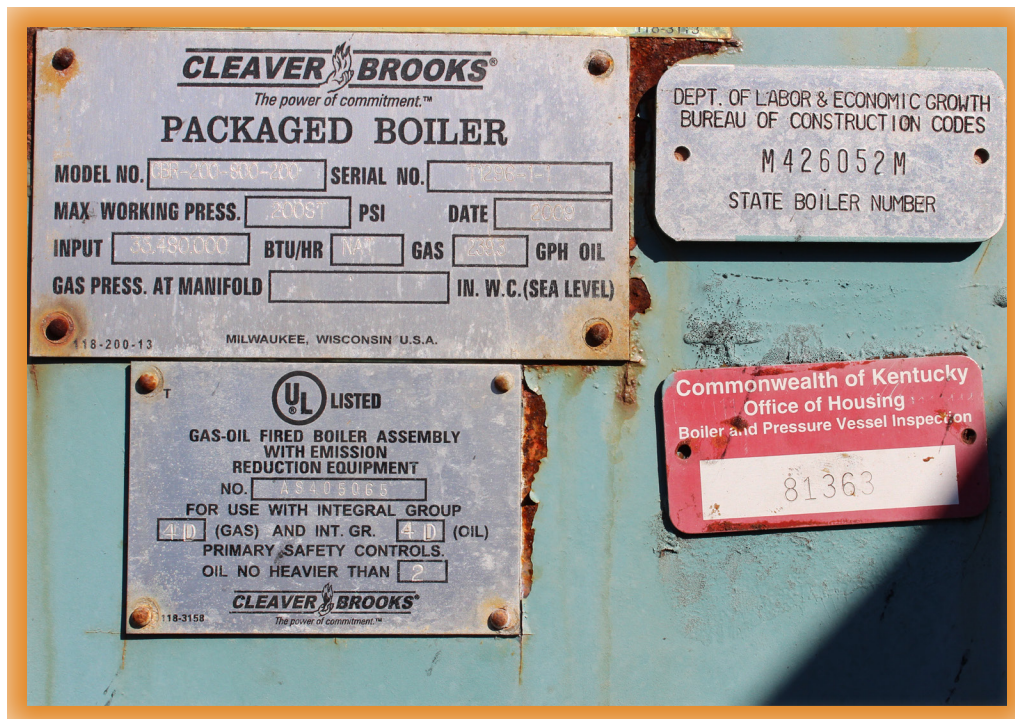
BURNER AND ELECTRICAL

BURNER MANUFACTURER (OEM)	Cleaver-Brooks
MODEL	Integral
TYPE	Full Modulation
FLUE GAS RECIRCULATION (FGR)	Yes
ELECTRIC	480V/3Ph/60Hz
ATOMIZATION	Air
CONTROL TYPE	Single-Point Positioning
BOILER CONTROL SYSTEM	-
BURNER MANAGMENT SYSTEM	Honeywell RM7800L
FLAME SAFEGUARD	IR Scanner
BLOW MOTOR	75 HP
BURNER INSTALLED	Yes
PILOT TYPE	Propane (LPG), NG, Spark
INSTRUMENT AIR	Oil Atomization
AIR COMPRESSOR	7.5 HP (Included)



DIMENSIONS AND WEIGHTS

OVERALL LENGTH	25' 7"
OVERALL HEIGHT	8' 9-1/2"
OVERALL WIDTH	9' 3"
SHIPPING WEIGHT	38,800 LBS
OPERATING WEIGHT	54,500 LBS
BOILER OUTLET	8" \varnothing 300# STUDDERY FLG.
EXHAUST OUTLET	24" \varnothing OD



800.37.STEAM

POWERHOUSE.COM

HQ

240 CREEK RD. DELANCO, NJ 08075 USA

+1 (856) 764-3333

SOUTHEAST OPERATIONS

1710 PACOLET CT., GASTONIA, NC 28052 USA

+1 (704) 864-7707

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