



B-1181

2003 Superior 7-5-1250-S150



GENERAL DESIGN

STANDARDS & CERTIFICATIONS



ASME Section I



National Board
Registered



NFPA-85 Build
Standard



Hartford Steam
Boiler Inspected

MANUFACTURER (OEM)	Superior
YEAR	2003
SERIAL NO.	15324
NATIONAL BOARD NO.	15324
CRN NO.	-
MODEL	7-5-1250-S150
TYPE	Scotch
DESIGN	Four-Pass Wetback Firetube
MOUNTING	Saddles & Skid Mounted
INTERNAL	Corrugated Furnace & Straight Tubes



CAPACITIES & INPUTS

OUTPUT CAPACITY	8,625 LBS/HR
HORSEPOWER	250 BHP
DESIGN PRESSURE (MAWP)	150 PSIG
OPERATING RANGE	30 - 140 PSIG
HEATING SURFACE	1,267 ft ²
MAX. FUEL INPUT	NG: 10,461,000 BTU/HR #2: 74.72 GPH
STANDARD FUELS ¹	Natural Gas & #2 Fuel Oil
ADDITIONAL FUELS ²	-
INPUT GAS PRESSURE	13.5 " WC Manifold Pressure @ Max Firing Rate
TURNDOWN RATIOS	NG: 8:1 #2: 4:1
EMISSION RATING (NOX)	Unknown

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)	John Zink / Gordon-Piatt
MODEL	F14.3-GO-150
TYPE	Full Modulation
FLUE GAS RECIRCULATION (FGR)	No
ELECTRIC	480V/3Ph/60Hz
ATOMIZATION	Air
CONTROL TYPE	Single Point Positioning
BOILER CONTROL SYSTEM	-
BURNER MANAGEMENT SYSTEM	Honeywell RM7800
FLAME SAFEGUARD	IR Scanner
BLOW MOTOR	15 HP
BURNER INSTALLED	Yes
PILOT TYPE	NG / Spark
INSTRUMENT AIR	-
AIR COMPRESSOR	Included (0.5 HP)



DIMENSIONS AND WEIGHTS

OVERALL LENGTH	20' 10"
OVERALL HEIGHT	8' 7"
OVERALL WIDTH	8' 0"
SHIPPING WEIGHT	23,600 LBS
OPERATING WEIGHT	39,798 LBS
BOILER OUTLET	6" \varnothing 300# FLG.
EXHAUST OUTLET	17" \varnothing OD





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