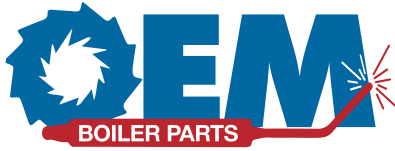
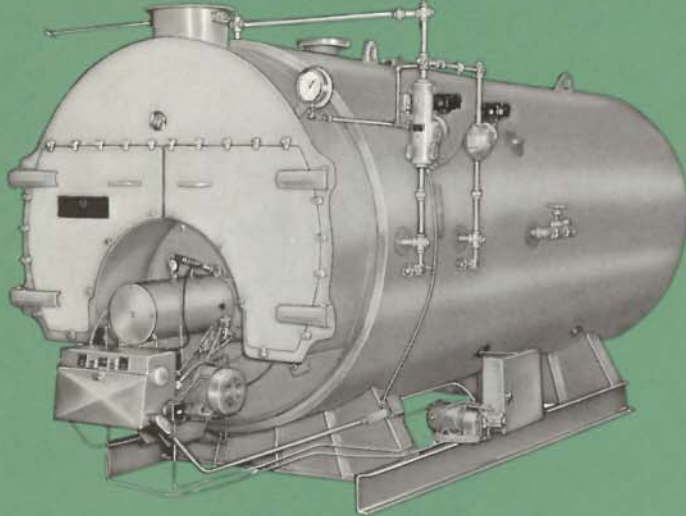


# KEWANEE® Classic II

150 PSI STEAM



**NEED PARTS?**  
OEM Boiler Parts  
Phone: (717) 367-9900  
sales@oemboilerparts.com



- Boiler for 150 psi Steam Working Pressure constructed in accordance with the requirements of the A.S.M.E. Boiler and Pressure Vessel Code.
- Two pass design eliminates refractory baffles that can burn out and short circuit hot gases to the stack. Dry back design.
- All heating surfaces are accessible without disturbing burner equipment, reducing inspection and maintenance costs. 2½" tubes are roller expanded.
- Factory installed 22 gauge enameled steel jacket with mineral fibre insulation. Extra density insulation is used at selected locations for additional protection at potential pressure points.
- Hinged steel front flue doors lined with refractory insulation, asbestos gasket seal to give gas tight construction for pressurized firing.
- The Classic II packages are offered in ranges of size from 70 thru 750 hp, fired by a Kewanee gas, oil or combination gas-oil burner.
- Units are furnished with complete line of controls, consisting of combination water column, low water cut-off and pump control, safety valve(s), steam gauge, water glass gauge and tri cocks, both quick and slow opening blow off valves, and 3" stack thermometer.

- All Classic II units are factory firetested, with the specified fuel and simulated field conditions, adjusting fuel and air ratios plus checking all controls and operating sequence. A detailed report of this test is delivered to the purchaser with each unit.

The Kewanee Classic II Packages are the results of over 100 years of experience in designing and building heat-generating equipment. We still believe in pride and craftsmanship in boiler manufacturing. The Classic II is a prime example. We've engineered the boiler and the burner as a matched team to maintain highest efficiency and carry peak loads without strain or wear . . . and to do it with real fuel-saving economy. We also give you a single source responsibility for boiler and burner and fully integrated design.

## RATINGS

UNIT NUMBER H2S	70	100	125	150	200	250	300	350	400	500	600	750
Rating—Horsepower . . . . .	70	100	125	150	200	250	300	350	400	500	600	750
—MBh . . . . .	2343	3348	4184	5021	6695	8369	10043	11716	13390	16738	20085	25106
—Steam per hr. -212°F . . . . .	2415	3450	4313	5175	6900	8625	10350	12075	13800	17250	20700	25875
—Steam gross output . . . . . sq. ft.	9765	13950	17438	20925	27895	34875	41845	48820	55795	69750	83625	104610
Firing Rate—Gas (1000 Btu/cu. ft.) . . . . . MBh	2929	4185	5231	6278	8370	10463	12554	14646	16740	20925	25110	31383
—Oil 140,000 Btu. . . . . gph	21.0	30.0	37.5	45.0	60.0	75.0	90.0	104.6	119.6	150.0	179.5	225.0
—Oil 150,000 Btu. . . . . gph	—	28.0	35.0	42.0	56.0	70.0	84.0	97.6	111.7	140.0	167.5	209.2
Heating Surface—ASME . . . . . sq. ft.	358	500	625	750	1000	1250	1500	1750	2000	2500	3000	3750
Furnace Volume . . . . . cu. ft.	48.9	65.7	78.4	86.8	126.4	141.7	168.1	198.9	214.6	253.3	302.6	427.7
Safety Valve Capacity . . . . . lbs.	2864	4000	5000	6000	8000	10000	12000	14000	16000	20000	24000	30000

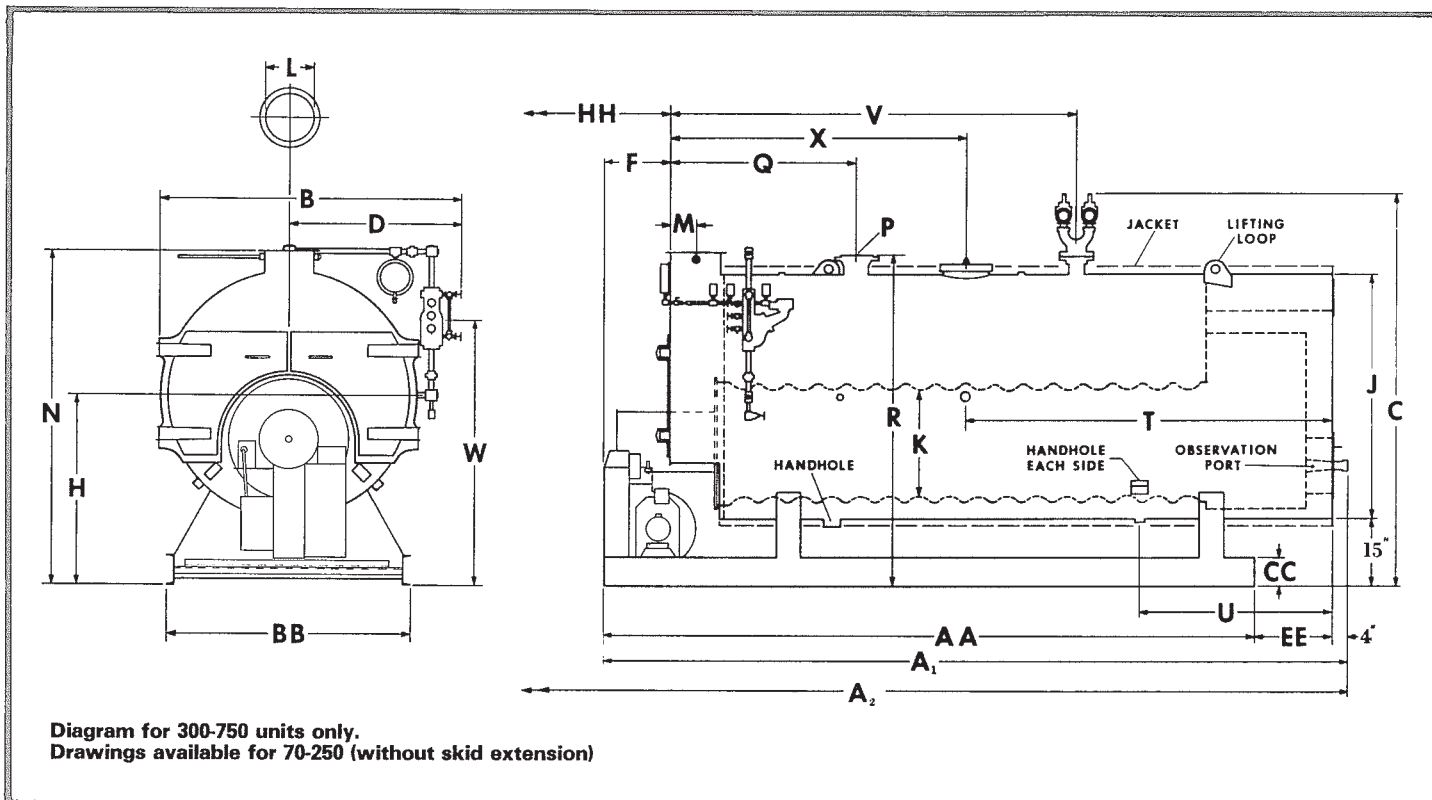
## DATA

Insulation Thickness . . . . . in.	2	2	2	2	2	2	2	2	2	2	2	2
Minimum Stack Diameter . . . . . in.	12	12	14	14	16	16	18	20	20	22	24	27
Steam Space . . . . . cu. ft.	14.4	20.2	30.5	36.6	54.6	68.4	85.9	92.9	106.3	138.3	142.3	163.7
Disengaging Area . . . . . sq. ft.	27.9	35.6	41.2	49.5	53.8	67.5	76.0	79.4	90.9	109.1	111.3	119.0
Water Content (full) . . . . . gals.	667	934	1125	1353	1618	2029	2419	2678	3064	3927	4535	4963
to normal waterline . . . . . gals.	559	783	897	1079	1210	1517	1776	1983	2269	2893	3471	3739
Approx. Weight (full) . . . . . lbs.	15962	20890	24483	27784	36194	42122	50974	57335	64054	78351	90922	104991
Approx. Dry Weight . . . . . lbs.	10400	13100	15100	16500	22700	25200	30800	35000	38500	45600	53100	63600

Supersedes  
Bulletin 20B-1  
January, 1980

DIMENSIONS, DATA SUBJECT TO CHANGE WITHOUT NOTICE

Bulletin 20B-1  
November, 1980



## CLASSIC II DIMENSIONAL DATA 150 PSI STEAM H2S

UNIT NUMBER	70	100	125	150	200	250	300	350	400	500	600	750
A1 - Overall length	13' 10 1/2"	15' 6"	15' 6 1/2"	17' 6"	16' 7 1/2"	19' 5"	19' 10 1/2"	19' 9 1/2"	21' 7 1/2"	24' 3"	23' 5"	24' 4"
A2 - Overall length including tube removal	19' 10 1/2"	22' 5 1/2"	22' 4 1/2"	26' 3"	23' 11"	29' 1/2"	30' 1/2"	29' 9 1/2"	33' 5 1/2"	37' 1/2"	35' 4"	36' 2"
B - Overall width	5' 8"	6' 2"	6' 8"	6' 8"	7' 7 1/2"	7' 7 1/2"	8' 2"	9' 2"	9' 2"	9' 8"	10' 5 1/2"	11' 1"
C - Overall height	6' 10"	7' 5"	7' 9"	7' 9"	8' 11"	9' 1"	9' 6"	10'	10'	11' 7"	12' 6"	13' 9 1/2"
D - Boiler centerline to greatest width	3' 2 1/2"	3' 5 1/2"	3' 8 1/2"	3' 8 1/2"	4' 2 1/2"	4' 2 1/2"	4' 5 1/2"	5' 2 1/2"	5' 2 1/2"	5' 5 1/2"	5' 10 1/2"	6' 2 1/2"
F - Skid to front of boiler*	1' 4 1/2"	1' 7 1/2"	1' 6 1/2"	1' 6 1/2"	1' 4 1/2"	1' 7 1/2"	1' 6 1/2"	1' 6"	1' 6"	2' 3"	2' 1 1/2"	1' 11 1/2"
H - Boiler centerline height	3' 7"	3' 10"	4' 1"	4' 1"	4' 7"	4' 7"	4' 10"	5' 1"	5' 1"	5' 4"	5' 9"	6' 1"
J - Shell diameter	4' 6"	5' 0"	5' 6"	5' 6"	6' 6"	6' 6"	7' 0"	7' 6"	7' 6"	8' 0"	8' 10"	9' 6"
K - Furnace diameter	2' 0"	2' 2 1/2"	2' 3"	2' 3"	2' 8"	2' 8"	2' 11"	3' 2"	3' 2"	3' 5"	3' 8"	4' 2"
L - Flue outlet diameter	1' 0"	1' 0"	1' 2"	1' 2"	1' 4"	1' 4"	1' 6"	1' 8"	1' 8"	1' 10"	2' 0"	2' 3"
M - Centerline of flue outlet	6 1/2"	6 1/2"	7 1/2"	7 1/2"	8 1/2"	8 1/2"	8"	7"	7"	7"	8"	8 1/2"
N - Height of flue outlet	6' 5 1/2"	6' 11 1/2"	7' 5 1/2"	7' 5 1/2"	8' 5 1/2"	8' 5 1/2"	8' 11 1/2"	9' 5 1/2"	9' 5 1/2"	9' 11"	10' 9"	11' 5"
P - Supply size - 300 Lb. ASA flange	4"	4"	6"	6"	6"	6"	6"	8"	8"	8"	10"	10"
Q - Supply centerline	3' 2 1/2"	3' 7 1/2"	4' 2 1/2"	4' 2 1/2"	4' 10 1/2"	4' 10 1/2"	5' 5"	5' 5"	5' 5"	5' 8"	5' 8"	6' 0"
R - Supply height	8' 3"	6' 9"	7' 3 1/2"	7' 3 1/2"	8' 4"	8' 4"	8' 10"	9' 4 1/2"	9' 4 1/2"	9' 10 1/2"	10' 10"	11' 6"
T - Feedwater centerline	6' 11"	7' 6 1/2"	7' 5 1/2"	8' 4 1/2"	8' 6"	10' 1/2"	10' 1"	10' 1/2"	11' 1/2"	11' 10"	11' 6"	12' 7"
- Feedwater size	1 1/2"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2 1/2"	2 1/2"
U - Drain centerline	4' 0"	4' 0"	4' 5"	4' 5"	5' 4"	5' 4"	5' 6"	5' 6"	5' 6"	5' 6"	6' 8"	6' 8"
- Drain size	2"	2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
V - Safety valve centerline	7' 8 1/2"	9' 5 1/2"	9' 4 1/2"	9' 8 1/2"	9' 10 1/2"	9' 10 1/2"	11' 5"	12' 3"	12' 3"	13' 4"	13' 0"	13' 0"
W - Normal waterline	5' 1"	5' 6 1/2"	5' 9 1/2"	5' 9 1/2"	6' 5"	6' 5"	6' 9"	7' 2 1/2"	7' 2 1/2"	7' 6 1/2"	8' 4 1/2"	8' 11"
X - Manhole centerline	5' 2 1/2"	5' 11 1/2"	6' 8 1/2"	6' 8 1/2"	7' 4 1/2"	7' 4 1/2"	7' 11"	8' 9"	8' 9"	9' 10"	9' 6"	9' 6"
AA - Base length	8' 6"	9' 6"	9' 6"	11' 4"	10' 2"	12' 11"	16' 1 1/2"	15' 10"	17' 9"	20' 6"	19' 2"	20' 8"
BB - Base width	4' 0"	4' 6"	5' 0"	5' 0"	6' 0"	6' 0"	6' 6"	7' 0"	7' 0"	7' 6"	8' 0"	8' 0"
CC - Base height	6"	6"	8"	8"	8"	8"	10"	10"	10"	10"	12"	12"
EE - Skid to rear of boiler	2' 7"	2' 10 1/2"	2' 11"	3' 1 1/2"	3' 4"	3' 1 1/2"	3' 5"	3' 7 1/2"	3' 6 1/2"	3' 5"	3' 11"	3' 4"
FF - Base to front of burner	2' 5 1/2"	2' 9 1/2"	2' 9 1/2"	2' 9 1/2"	2' 9 1/2"	2' 9 1/2"	3' 1 1/2"	-	-	-	-	-
HH - Tube removal space	7' 5"	8' 7"	8' 4 1/2"	10' 3 1/2"	8' 8"	11' 3"	11' 8 1/2"	11' 6"	13' 4"	15' 1/2"	14' 1/2"	13' 9 1/2"

\*No skid 70-250 units.



**KEWANEE BOILER CORPORATION**  
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