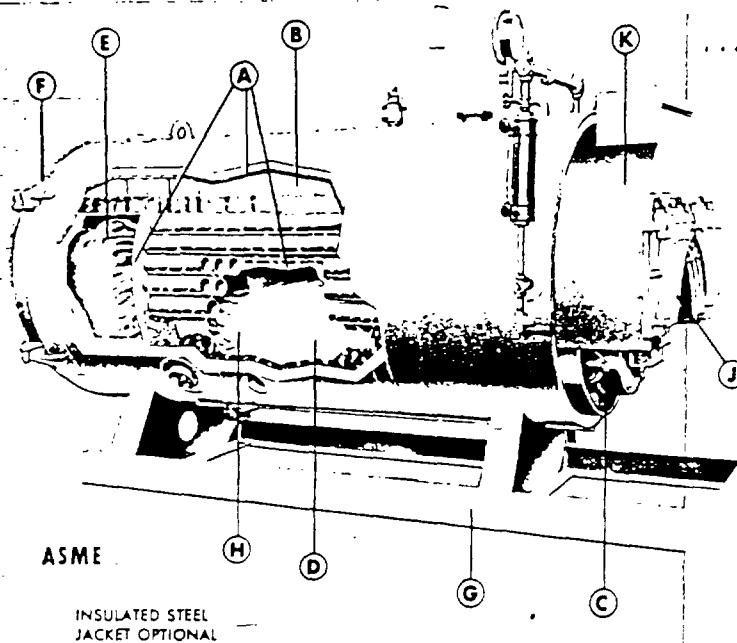


LM-Welded Scottie Junior

MARCH, 1958



606,000 to 3,091,000 Btuh

15 psi steam—30 psi water 250° F maximum

This new addition to Kewanee's famous line of boilers incorporates many proven features found in the Scottie Junior high pressure series. Substantial steel skids, heavy flange steel shell, cast iron flue doors, and generous furnace volumes are only a few of the many quality features that are built into the low pressure Scottie Junior series.

Rear combustion chamber is heavily lined with refractor and designed with water back top, adapter mounting plate makes assembly with standard gun-type burners easy. Insulated steel jacket with lifting loops is optional.

The boiler is also available as a forced draft boiler-burner unit for oil, gas or oil-gas combination.

**low pressure
oil or gas**

- A Shell, heads and furnace** are fabricated from heavy firebox and flange steel. All welds in accordance with ASME Code.
- B Ample steam space**, large unbroken disengaging area and well spaced tubes eliminate violent agitation of water... insure rapid circulation, fast pick up and constant supply of steam or hot water.
- C Adequate washout openings** give access to waterside for cleaning and inspection.
- D Plain circular furnace** has sufficient volume for complete combustion of fuels.
- E Rear combustion chamber...** with high temperature refractory lining installed at the factory. Designed with water back top.
- F Hinged combustion chamber door** with pyrex observation port on LM-18 through LM-45, four larger sizes have bolted rear cover plate with access panel and pyrex observation port.
- G Sturdy steel skids** simplify handling and installation. No special foundation is needed.
- H Long gas travel**, through the lengthy combustion chamber, then back through the full length of heavy gage 3" tubes, assures maximum transfer of heat to boiler water.
- J Refractory filled cast iron flue doors**, mounted on heavy-duty hinges, provide easy access to fire tubes for cleaning and inspection.
- K Gas-tight smokebox** of heavy gage steel, welded in one piece to boiler shell and gasketed cast iron flue doors and frames make the Scottie Junior adaptable to forced draft firing.

24857

ratings • mechanically fired—oil or gas

boiler number		LM-18	LM-29	LM-39	LM-45	LM-59	LM-65	LM-78	LM-92
rating — steam	sq ft	2520	4030	5480	6375	8210	9130	10940	12590
— water	sq ft	4040	6450	8770	10700	13140	14610	17500	20610
— MBH		606	967	1316	1530	1971	2191	2625	3091
— steam per hour — 212°F	lb	624	996	1356	1577	2031	2258	2705	3185
usage rate — No. 1 oil	gph	5.4	8.6	11.7	13.6	17.5	19.5	23.4	27.5
— No. 2 oil	gph	5.0	8.0	10.9	12.7	16.4	18.2	21.8	25.7
— gas	MBH	757	1208	1645	1912	2462	2738	3281	3863
heating surface	sq ft	90	158	215	250	322	358	429	500
furnace volume	cu ft	16.5	21.7	29.9	32.7	50.5	56.0	64.8	75.6
water volume capacity	lb steam per hr	606	967	1316	1530	1971	2188	2625	3090

* Certified output ** Based on 140,000 Blk Two & C — 150,000 Blk Two & O.

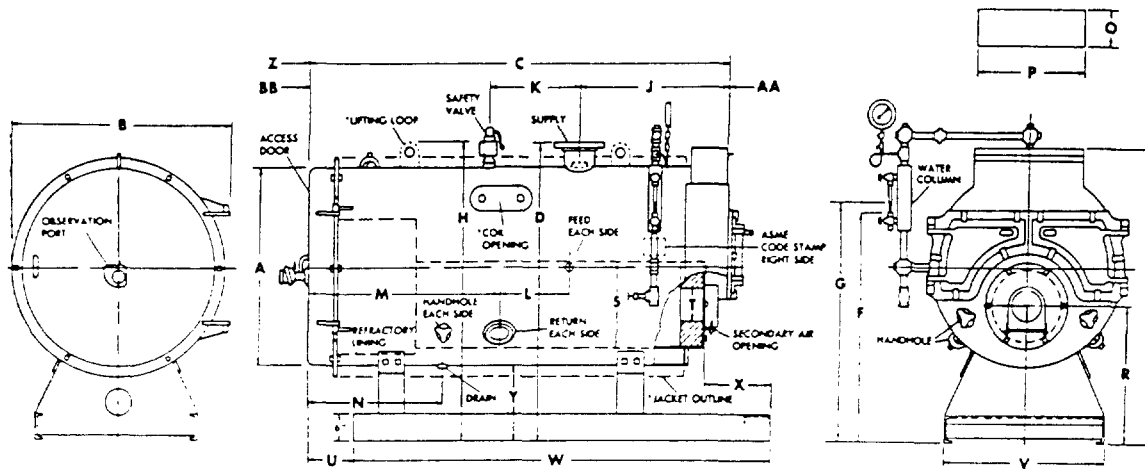
Standard equipment — Manual in LHM 59 through LHM 96; factory-installed rear compartment; angled rear compartment; chamber door with pry-override portion on LHM 59 through LHM 96; red tool case with access plate and pry-override portion on LHM 59 through LHM 96; blue leather with handle; standard burner mounting plate with secondary opening and standard refractioning and/or burning; air burner mounting plate with single or dual large burning; daylight see-through knobs with universal lockable key; door lock.

Prices are subject to change without notice.

Standard steam trimmings — Safety valve as required by ASME Code, steam gage with siphon and coke water column with water gage.

Standard water trimmings - i.e. of valves, as required by ASME Code

Optional equipment - includes extra and long bags to the blades, control of water cover and low water cut off combination water column pump control and low water cut off hot water heating coil.



• UN-18 THRU UN-45 ILLUSTRATED

HANDHOLE ON UN-59 THRU UN-92

OPTIONAL



LM-Welded Scottie Junior low pressure • oil or gas

dimensions and data (feet—inch)

boiler number	LM-18	LM-29	LM-39	LM-45	LM-59	LM-65	LM-78	LM-92
A — boiler — inside diameter	3-6	3-6	4-0	4-0	4-0	4-0	5-0	5-0
B — — width overall	4-0 1/2	4-0 1/2	4-6 1/2	4-6 1/2	4-11	4-11	5-5	5-5
C — — length	6-8	9-2	9-7	10-8	11-8 1/2	12-7 1/2	11-7	12-10
D — steam supply height	4-11 1/2	4-11 1/2	5-10	5-10	6-7	6-7	7-0	7-0
E — smoke outlet height	5-2 1/2	5-2 1/2	5-8 1/2	5-8 1/2	6-6	6-6	6-11	6-11
F — water column height	3-11 1/2	3-11 1/2	4-4	4-4	5-0 1/2	5-0 1/2	5-4 1/2	5-4 1/2
G — water line height	4-1 1/2	4-1 1/2	4-6	4-6	5-2 1/2	5-2 1/2	5-6 1/2	5-6 1/2
H — lifting loop height	5-4 1/2	5-4 1/2	5-10 1/2	5-10 1/2	6-5 1/2	6-5 1/2	6-10	6-10
J — steam supply	2-3	2-9	2-11	2-11	3-0	3-6	3-1	3-7
K — safety valve	1-8	1-8	1-8	1-8	5-4	5-9	5-2	5-10
L — feed water — each side					2-4	2-9	2-2	2-9 1/2
M — return — each side	3-4	3-6	4-0	4-0	4-4	4-4	4-4	4-4
N — drain	2-6	2-6	2-9	2-9	4-0	4-0	4-0	4-0
O — smoke outlet — outside width	0-8 1/2	0-8 1/2	0-10 1/2	0-10 1/2	0-11 1/2	0-11 1/2	1-0 1/2	1-0 1/2
P — — outside length	2-0 1/2	2-0 1/2	2-2 1/2	2-2 1/2	2-5 1/2	2-5 1/2	3-0 1/2	3-0 1/2
R — furnace — height	2-5 1/2	2-5 1/2	2-6 1/2	2-6 1/2	3-1	3-1	3-1 1/2	3-1 1/2
S — — inside diameter	1-6	1-6	1-8	1-8	2-2 1/2	2-2 1/2	2-5 1/2	2-5 1/2
T — hole diameter — air burner refractory	0-7	0-7	0-7 1/2	0-7 1/2	0-8	0-8	0-8	0-8
U — base — location	0-4 1/2	0-4 1/2	0-8	0-8	1-6	1-6	1-6	1-6 1/2
V — — width	3-0	3-0	3-6	3-6	4-6	4-6	5-0	5-0
W — — length	7-5	9-11	9-10 1/2	10-11 1/2	11-7 1/2	12-6 1/2	11-5 1/2	12-7 1/2
X — — extension	1-7 1/2	1-7 1/2	1-7 1/2	1-7 1/2	2-0	2-0	2-0	2-0
Y — floor to boiler	1-4	1-4	1-4	1-4	1-7	1-7	1-6	1-6
Z — rear door clearance	3-6	3-6	4-0	4-0				
AA — tube replacement space — front	3-3	5-9	5-7	6-8	7-2	8-1	6-11	8-1 1/2
BB — — rear	2-0	4-6	4-3	5-4				
bleaching diameter	1-5	1-6	1-8	1-8	1-9	1-10	1-11	2-0
stack — diameter	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-10
— height	15-0	20-0	20-0	20-0	25-0	40-0	35-0	40-0
steam supply size	in 4	4	6	6	6	6	8	8
return size (two)	in 4	4	4	4	4	4	4	4
drain size	in 1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2
feed water size	in 1	1	1	1	1 1/2	1 1/2	1 1/2	1 1/2
water column size	in 1	1	1	1	1 1/2	1 1/2	1 1/2	1 1/2
outside surface to case	in 10	8	10	10	10	10	10	10
approximate weight	lb 2800	3400	4800	5400	7000	7800	8300	9000

* 150 lb. American Standard Flange

** Flange on boiler and refractory included

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