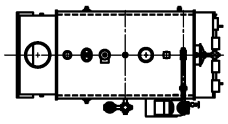
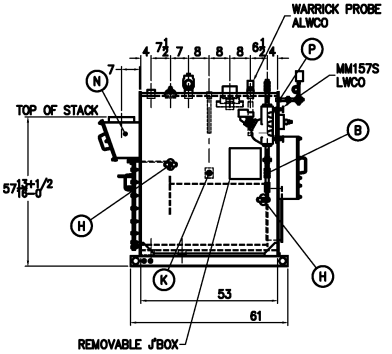
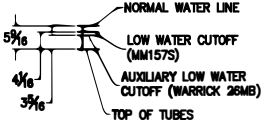
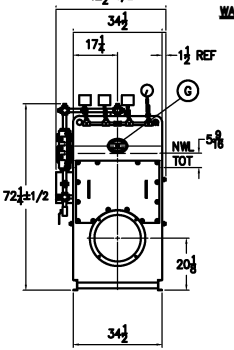


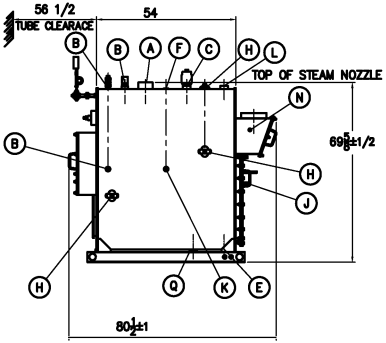




WATER LEVEL SEQUENCE

STACK DETAIL





BOILER CONNECTIONS

A.(1) STEAM OUTLET	4" NPT
B.(4) LWCO	1" NPT
C.(1) SAFETY VALVE	2" NPT
D.( ) SAFETY VALVE	
E.(1) BOILER BLOWDOWN	1 1/4" NPT
F.(1) SURFACE BLOWDOWN	1" NPT
G.(1) HANDHOLE	4" x 6"
H.(5) HANDHOLE	3" x 4"
J.(1) SIGHTPORT	1 1/4" PIPE
K.(2) FEEDWATER	1" NPT
L.(1) AUXILIARY	2" NPT
M.( ) LOW FIRE HOLD	
N.(2) STACK TEMP	1/2" NPT
P.(1) PRESSURETROL	3/4" NPT
Q.(1) CLEANOUT	2" NPT
R.( )	
S.( )	

RATINGS & CAPACITIES

HORSEPOWER	30
DESIGN PRESSURE	15 PSIG STEAM[LM]
GROSS OUTPUT	1004 MBH
STEAM (FROM & AT 212°F)	1037 Lbs/Hr
HEAT RELEASE: (FURNACE ONLY)	134899 BTU/CuFt
RATED INPUT	1255 MBH
HEATING SURFACE (ASME)	124 SqFt
FURNACE HEATING SURFACE	25.04 SqFt
FURNACE VOLUME	9.31 CuFt
TURNAROUND VOLUME	2.7 CuFt
STEAMING VOLUME	8.92 CuFt
STEAM RELEASE AREA	11.41 SqFt
WATER CAPACITY:	
(FULL) 230 Gals	@ 1,915 Lbs
(NWL) 163 Gals	@ 1,360 Lbs
SHIPPING WEIGHT:	4,000

LTR	DATE	REVISION	BY

REPRESENTATIVE:
?
?

PROJECT:
?

NOTES

1. ALL CONTROLS MOUNTED AS PER SPECIFICATION SHEET.
2. SPECIFICATION SHEET TAKES PRIORITY OVER R & D SHEET.
3. BOILER DESIGN CODE ASME SECTION IV.
4. BOILER INSULATED WITH 1"-6# DENSITY CERAMIC FIBER INSULATION WITH 22 GAUGE STEEL JACKET.
5. ALL DIMENSIONS ARE ±1/2" UNLESS OTHERWISE NOTED.
*6. HORSEPOWER & RELATED INFO BASED ON 4 SqFt FIRING.

SUPERIOR BOILER WORKS, INC.
HUTCHINSON, KANSAS

CHECKED BY
DRAWN BY ?
DATE
DATE

ARROWHEAD
BOILER MODEL
AR-4-120-S15-M

SCALE 1/34

DRAWING No ?

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