INSPECTION REPORT-BOILERS
NAVFAC 9-11014/41 (3/67)
Supersedes NAVDOCKS 2544
S/N 0105-LF-004-0000

DATE OF INSPECTION: 15 SEPT. 2 OCT 1986

TYPE OF INSPECTION: A ☐ INTERNAL & EXTERNAL B ☒ INTERNAL & EXTERNAL WITH PRESSURE TEST C ☒ OPERATIONAL

1. FROM: BASE MAINT. OFFICER, CAMP LEJEUNE, N. C.

2. TO: NAVFACENGCOM, NORFOLK, VA.

14. CERTIFICATE ISSUED ☒ YES ☐ NO
EXPIRES 15 SEPT. 1987

15. BOILER INSPECTOR: Thomas L Lanier
NAVY OR NATIONAL BOARD NO.: NAVFAC 239

16. REASON FOR NOT ISSUING CERTIFICATE:

BOILER DATA

3. MANUFACTURER: SUPERIOR BOILER WORKS

4. PROPERTY NO.	5. MFG. SERIAL NO.	6. MFG. MODEL NO.
64	7771	5-5-508
7. BUILDING NO.	**8. YEAR BUILT**	**9. CAPACITY**
BA-106	1977	3,450 LB/HR

10. FUEL (Check): ☐ COAL ☒ OIL ☐ GAS

11. PRESSURE: DESIGNED 150 psi; OPERATING 50 psi; TEST 100 psi

12. FEED WATER TREATMENT: ☒ SATISFACTORY ☐ UNSATISFACTORY

13. TYPE: ☐ WATER TUBE ☒ FIRE TUBE ☐ C. I.

17. BOILER USE: EXPORT

18. COMBUSTION CONTROL (Mfg. Name): HONEYWELL

19. COMBUSTION: 12.0 % CO_2 8.0 % EXCESS O_2

20. FLUE GAS TEMPERATURE: AFTER BOILER 400 °F : AFTER HEAT TRAP _____ °F

SAFETY DEVICES

SAFETY VALVES

21. MANUFACTURER	22. NUMBER AND SIZE	23. PSI SETTING	24. CONDITION
KUNKLE	1-1½" 1-1¼"	65-60	SAT.

STEAM PRESSURE GAUGE

25. MANUFACTURER: MARSH

26. CORRECTIONS: WATER LEG CONSTANT _____ psi; OTHER _____ psi

27. REASON IF NOT TESTED:

FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	PEABODY GORDON & PIATT	
29. TYPE	NOZZLE SPRAY	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS:
① W/S MEDIUM SCALE (HARD) & PITTING, TUBE ENDS ARE THINNED FROM REROLLING AND COMBUSTION GASES, RECOMMEND REPLACING TUBES IN THE (2) TWO YEARS. ② INSTALL COVER ON HIGH LIMIT CUT OUT CONTROL.

32. ATTACHMENT(S) (Check): ☐ COPY OF INSPECTOR'S REPORT ☐ SPECIAL COMMENTS

33. SIGNATURE: M O Hargrave
BY DIRECTION

* U.S. GOVERNMENT PRINTING OFFICE: 1983 ...

INSPECTION REPORT-BOILERS
NAVFAC 9-11014/41 (3/67)
Supersedes NAVDOCKS 2544
S/N 0105-LF-004-0000

DATE OF INSPECTION: 26 DEC 1979

TYPE OF INSPECTION: A ☐ INTERNAL & EXTERNAL B ☐ INTERNAL & EXTERNAL WITH PRESSURE TEST C ☒ OPERATIONAL

1. FROM: BASE MAINT. OFFICER
CAMP LEJEUNE, N. C.

2. TO: NAVFACENGCOM
NORFOLK, VA

14. CERTIFICATE ISSUED ☒ YES ☐ NO
EXPIRES 22 MAY 1980

15. BOILER INSPECTOR: Jesse L. Sellers
NAVY OR NATIONAL BOARD NO.: NAVFAC 225

16. REASON FOR NOT ISSUING CERTIFICATE:

BOILER DATA

3. MANUFACTURER: SUPERIOR BOILER WORKS

4. PROPERTY NO.	5. MFG. SERIAL NO.	6. MFG. MODEL NO.
64	7771	5-5-508
7. BUILDING NO.	**8. YEAR BUILT**	**9. CAPACITY**
BA-106	1977	3,450 lbs/HR

10. FUEL (Check): ☐ COAL ☒ OIL ☐ GAS

11. PRESSURE: DESIGNED 150 psi; OPERATING 50 psi; TEST ____ psi

12. FEED WATER TREATMENT: ☐ SATISFACTORY ☐ UNSATISFACTORY

13. TYPE: ☐ WATER TUBE ☒ FIRE TUBE ☐ C. I.

17. BOILER USE: EXPORT

18. COMBUSTION CONTROL (Mfg. Name): HONEY WELL

19. COMBUSTION: 12.0 % CO_2 ____ % EXCESS O_2

20. FLUE GAS TEMPERATURE: AFTER BOILER 300 °F : AFTER HEAT TRAP ____ °F

SAFETY DEVICES

SAFETY VALVES

21. MANUFACTURER	22. NUMBER AND SIZE	23. PSI SETTING	24. CONDITION
KUNKLE	1-1½" 1-¾"	60	GOOD

STEAM PRESSURE GAUGE

25. MANUFACTURER: MARSH

26. CORRECTIONS: WATER LEG CONSTANT ____ psi; OTHER ____ psi

27. REASON IF NOT TESTED:

FIRING EQUIPMENT

ITEM	IN SERVICE	ALTERNATE
28. MANUFACTURER	PEABODY GORDON & PIATT	
29. TYPE	NOZZLE SPRAY	
30. FUEL GRADE	#2	

31. INSPECTOR'S COMMENTS: OK—

32. ATTACHMENT(S) (Check): ☐ COPY OF INSPECTOR'S REPORT ☐ SPECIAL COMMENTS

33. SIGNATURE: R. M. Dillon
BY DIRECTION

★ U. S. GOVERNMENT PRINTING OFFICE: 1978-604-467

SUPERIOR

FACTORY FIRETEST REPORT
OIL FIRING

BA-106 #56
64

esentative: POWER & HEAT Date: 11/23/1977

Name: CAMP LEJEUNE National Board NO: 7771

er Model: 5-5-508-S150-G.P. Burner Model: S10.1-0-30

(s) #2 Oil Type of Firing: Modulation

:age and Phase: 240-60-3 Damper: Manual Auto

72 Energy Extractors Installed Combustion Control Type: GP-301

		Low Fire	High Fire
ing Rate GPH		13.3	30
ne Signal Pilot	2.5 UA	3 UA	3 UA
e Press Supply			
Press Nozzle			
Temp. F. #2			
ore Preheater			
er Preheater			
Nozzle			
Press Pump	310 Psi		
Press Nozzle		300 Psi	310 Psi
Press Return		102 Psi	172 Psi
ler Press. or Temp.		100 Psi	100 Psi
ebox Press Inches W.C.		.3	1.8
ck Temperature Degree F.		345	400
ient Temp. Degree F.	60		
Percent		13.5	13
ke - Bacharach		0	0
ibustion Efficiency Percent		87.1	85.7
m Losses Percent	1.5		
el to Steam Efficiency Percent		85.6	84.2

retest Conducted BY Ed Nather

port Approved by Quality Control Fred Palatsis

e Reverse Side for Control Checks

Form TFR-2

High Limit	Set at---- 100 Psi	---- Checked	✓
Operation Limit	Set at---- 95 Psi	---- Checked	✓
Modulating Control	Set at---- 90 Psi	---- Checked	✓
High Oil Press Switch	Set at----	---- Checked	
Low Oil Press Switch	Set at----	---- Checked	
High Oil Temp. Switch	Set at----	---- Checked	
Low Oil Temp Switch	Set at----	---- Checked	
Primary LWCO		---- Checked	✓
Auxillary LWCO		---- Checked	✓
Air Flow Switch		---- Checked	✓
Burner Door Switch		---- Checked	
Oil System Checked for Leaks		---- Checked	✓
Doors & Burner Checked for Leaks		---- Checked	✓
Dielectric Test		---- Checked	

Blower Motor Amps 7.5/6.5/8.5

BOILER SPECIFICATION SHEET

DATE RECEIVED: 8-17-77 — SHIPPING DATE (WK. OF) 11-15-77 — PAGE 2 OF — SALES ORDER NO. 256

JOB NAME: Camp Lejeune

REPRESENTATIVE: Power Heat — P.O. #

SOLD TO: — P.O. #

SHIP TO:

SHIPPING INST.:

CALL — AT

A.C. — HRS. BEFORE DELIVERY

DATE RELEASED:

REVISIONS			
REV.	DATE	BY	REVISION OR CHANGE
A			
B			
C			
D			

MANUALS: REQ'D 6 MAILED ON BY

SUBMITTAL: 10 SETS REQ'D ON CERTIFIED

BURNER ☐ GAS PIPING DIAG. ☒ OIL PIPING DIAG. ☐ COMPONENT LIST ☐

SUBMITTAL # MAILED ON BY

COMBUSTION - EQUIPMENT

BOILER-BURNER W.D.: — CONTROL SYSTEM NO.:

GAS PIPING DIAG.: — OIL PIPING DIAG.

AVAILABLE GAS PRESS: PSI — ALTITUDE FT.

MFG.: Gordon Piatt — MODEL: 510.1-0-30-GP301CCC-F7T-UL-M.L. — SERIAL NO.

FUEL(S): #2 oil — OPERATION(S): Modulation — BURNER W.D.:

FIRING RATE: CFH OIL 30 GPH — BLOWER MOTOR VOLTAGE: 240-60-3 — H.P. 3

FLAME SAFEGUARD CONTROL: GP 301 CCC (L) — STARTER AH — SIZE 0 — HEATER INCL

SERIAL NO.: — OIL PUMP MOTOR VOLTAGE: — H.P.

FLAME DETECTOR: GAS ☐ OIL ☒ GAS-OIL ☐ — C7027 — STARTER — SIZE — HEATER

GAS PILOT: 216 — OIL METERING PUMP MOTOR VOLTAGE: — H.P.

PILOT GAS PRESSURE REGULATOR: PV36 — SIZE 3/4" — STARTER — SIZE — HEATER

PILOT SHUT-OFF COCK: S-2M3C — SIZE 3/4" — AIR COMPRESSOR MOTOR STARTER VOLTAGE: — H.P.

PILOT SOLENOID VALVE: K3R — SIZE 3/4" — STARTER — SIZE — HEATER

PILOT SAFETY SOLENOID VALVE: K3R — SIZE 3/4" — OIL PUMP: INTEGRAL ☒ Webster

PILOT N.O. VENT VALVE: — SIZE — REMOTE ☐ ( )

PILOT GAS PRESSURE GAUGE: — SIZE — OIL STRAINER: — SIZE ( )

LEAK TEST COCK: — SIZE — OIL FILTER: — SIZE ( )

MAIN SHUT-OFF COCK: — SIZE ( ) — BY-PASS OIL RELIEF VALVE: — SIZE

GAS STRAINER: — SIZE ( ) — PRESSURE PSI

MAIN GAS PRESSURE REGULATOR: — SIZE ( ) — MAIN OIL VALVE: 8263 A 210 — SIZE 3/8"

SPRING RANGE: — ORIFICE SIZE — SAFETY OIL VALVE: 8263 A 210 — SIZE 3/8"

AUTOMATIC GAS VALVE: — SIZE ( ) — BY-PASS OIL SOLENOID VALVE: — SIZE

SAFETY GAS VALVE: — SIZE ( ) — 3 WAY OIL VALVE: — SIZE

N.O. VENT VALVE: — SIZE — LOW FIRE OIL VALVE: — SIZE

FIRING RATE VALVE: — SIZE — HIGH FIRE OIL VALVE: — SIZE

FIRING COCK: — SIZE — OIL METERING VALVE: HAUCK — SIZE

LOW GAS PRESSURE SWITCH: — RANGE "W.C. ( ) — OIL PRESSURE SWITCH: HI ☐ LOW ☒ L404V — RANGE 0-50 PSI

HIGH GAS PRESSURE SWITCH: — RANGE "W.C. ( ) — OIL PRESSURE GAUGE (2) GP 4½" Dials — RANGE 0-50 PSI

GAS PRESSURE GAUGE ( ) — RANGE "W.C. — OIL TEMPERATURE SWITCH: — RANGE °F

AIR FLOW SWITCH ☒ Cleveland — AIR PRESSURE SWITCH ☐ — OIL TEMPERATURE GAUGE ( ) — RANGE °F

LOW DRAFT SWITCH: — OIL HEATER: (INTEGRAL ELEC.) — VOLTAGE

FIRING RATE MOTOR: HI-LO ☐ MOD ☒ M954C — GAS IGNITION TRANSFORMER: GP — 6000 V

LOW FIRE INTERLOCK: INCH — OIL IGNITION TRANSFORMER: — V

CONTROL PANEL: MTD. ☒ BURNER ☐ BOILER ☒ REMOTE ☐ — CONTROL CIRCUIT STEP DOWN TRANSFORMER: T4296 — 240-115 V

DEAD FRONT PANEL ☐ DRAFT GAUGE ☐ D.C. VOLTMETER ☐ — AUTO-MANUAL FAN SWITCH: ☒

POWER ON SWITCH ☐ FUEL CHANGE-OVER SWITCH ☐ — ALARMS REQ'D TO SOUND ALARM:

MANUAL FIRING RATE CONTROL: GP — FLAME FAILURE ☒ — HIGH GAS PRESS ☐

INDICATING LIGHTS (5) STD. ☐ OIL TIGHT ☒ — LOW WATER ☒ — LOW GAS PRESS ☐

POWER ON	☒						☐
MAIN FUEL	☒	GREEN	HIGH GAS PRESS.	☐			☐
CALL FOR HEAT	☒		LOW GAS PRESS.	☐			☐
IGNITION ON	☒			☐			☐
FLAME FAILURE	☒	RED		☐			☐
LOW WATER	☐			☐			☐

LOW DRAFT ☐ — LOW WATER PRESS ☐

ALARM: BELL ☒ 4" — HORN ☐ — REMOTE ☐

W/SILENCING SWITCH ☒ — W/MOMENTARY CONTACT SILENCING SWITCH ☐

BURNER TO MEET THE FOLLOWING CODES: UL ☒ FIA ☐ FM ☐ 1377 GC

SPECIAL INSTRUCTIONS:

COMPLETED BY: — DATE

SALES:

SCHEDULING:

(L) SHIPPED LOOSE

(M) SHIPPED MOUNTED

DATE RECEIVED: 8-11-77

JOB NAME: Camp Lejeune

REPRESENTATIVE: Power Heat

SOLD TO: Industrial Boiler

SHIPPING DATE (WK. OF): 11-15-77

P.O. # A 5562

PAGE 1 OF 2

SALES ORDER NO. 25635

NAT'L BOARD NO. 7771

SERIAL NO.

SHIP TO:

SHIPPING INST.

CALL AT

A.C. - HRS. BEFORE DELIVERY

DATE RELEASED:

REVISIONS			
REV.	DATE	BY	REVISION OR CHANGE
A	9-26-77	DWB	Add Kunkle + Trim
B			
C	10-25-77	DWB	Change Steam out let to 300#
D			

MANUALS: REQ'D 6 MAILED 5 ON 12-30-77 BY

SUBMITTAL: 10 SETS REQ'D ON CERTIFIED

BOILER R & D W.D. S.W.D.

SUBMITTAL #

MAILED ON BY

MODEL NO. 5-5-508-S150-GP

DESIGN PRESSURE 150 PSI STEAM WATER HI-TEMP WATER

PER SECTION I ASME BOILER/P.V. CODE

STEAM NOZZLE: STD. SPL. 4" 300# Flg

WATER SUPPLY: STD. SPL.

RETURN: STD. SPL.

SAFETY VALVE CONNECTIONS SIZES: STD. SPL.

( ) ( )

( ) ( )

SKIMMER COUPLING: STD. SPL.

CONTINUOUS BLOWDOWN COUPLING: STD. SPL.

W/DIP TUBE W/INTERNAL PIPING

SPECIAL CONNECTIONS: T.C. R.S. B.C. L.S. 45°

( ) ( )

( ) ( )

TUBES: ROLLED ROLLED/FLARED ROLLED/BEADED ROLLED/WELDED

ROLLED/BEADED W/SEAL WELD OTHER

BOILER

NAME PLATE Aztec PAINT Blue

HTG. SURFACE 508 SQ. FT. OUTPUT 3347 M.B.H.

OPERATING PRESS. PSI OPERATING TEMP. °F

SKID: STD. SPL.

STACK CONNECTION: STD. SPL. 16"

DAMPER W/LOCKING QUAD. W/BEARINGS MOTORIZED

HINGE DAVIT SWING: RIGHT SIDE LEFT SIDE

OBSERVATION PORT: STD. MOVEABLE FRONT REAR

EXPLOSION DOORS: FRONT REAR SPL.

INSULATION: STD. FIBERGLASS OTHER

JACKET: STD. WEATHERPROOF OTHER

WALKWAY: STD. SPL.

HANDHOLES: STD. SPL.

MANWAY: STD. SPL.

BURNER MOUNT: S10.1-0-30 Gordon & Piatt

BURNER FACTORY MOUNTED FIELD MOUNTED

BURNER MOTOR VOLTAGE 240-60-3 HP 3

BOILER TRIM

CONTROL CIRCUIT: S.W.D. VOLTAGE 115-60-1

CONDUIT: STD. LIQUID TIGHT RIGID WEATHERPROOF (SYSTEM)

L.W.C.O.: RS LS W/GAUGE GLASS - TRI-COCKS

MM #157 (M)

AUX. L.W.C.O.: RS LS IG1500 w/3-IC4 holder (M)

WATER COLUMN: RS LS W/GAUGE GLASS - TRI-COCKS ( )

WATER FEEDER: RS LS ( )

OPERATING CONTROL GROUP: RS LS

			RANGE	
GAUGE:	6" Marshalltown		0-300#	(M)
W/GAUGE COCK	W/TEST COCK			
OPERATING CONTROL	L404A	1396	10-150#	(M)
LIMIT CONTROL:	L404C	1162(mr)	10-150#	(M)
NIGHT LIMIT W/SWITCH:				( )
				( )
				( )
FIRING RATE CONTROL	L91A	1052	5-150#	(M)
STACK THERMOMETER:	5"	STEM LGTH 6"	100-800°	(M)

ALARM ISOLATING RELAY

SAFETY VALVE(S): MFG. Kunkle (L)

(1) Fig 6000 SIZE 1¼X1½ SET @ 60 PSI

(1) Fig. 6000 SIZE 1½X2 SET @ 60 PSI

( ) SIZE SET @ PSI

BOILER FEED VALVES: RS LS (L)

GATE 9300 O.S. SIZE 1½"

CHECK #50 O.S. SIZE 1½"

AUTOMATIC: ELEC. OTHER MOD 2 POS

BOILER BLOWDOWN VALVE(S): RS LS FRONT REAR

(1) UBT# 225 TT SIZE 1¼" (L)

(1) Fig 4000 SIZE 1¼"

WATER COLUMN BLOWDOWN VALVE(S): RS LS BS (M)

(1) UBT # 225 TT SIZE 1"

CONTINUOUS BLOWDOWN VALVE(S): RS LS ( )

SIZE

INJECTOR: RS LS SIZE ( )

W/ ( ) GATE VALVES SIZE ( )

CHECK VALVE SIZE ( )

BOILER TO MEET THE FOLLOWING CODE(S)

FACTORY FIRETEST W/REPORT ASME SHORT FORM

FACTORY START-UP W/ DAY(S) SUPERVISION

SPECIAL INSTRUCTIONS:

COMPLETED BY: DWB DATE 4-14-77

SALES: DW 4-14-77

SCHEDULING: 4-14-77

ENG: DPC 4-14-77

PURCH: 4-14-77

(L) SHIPPED LOOSE

(M) SHIPPED MOUNTED

(F) PREPIPED/SHIPPED LOOSE

TURBULATORS: Full - 2 DIA. DIVERS - LGTH.

SPRAY PAINT: - CAN(S) FLUE BRUSH: - DIA.

COPIES FOR: ENG. SALES DEPT. QUALITY CONTROL PLANT MGR.

SCHED. PURCHASING FINAL ASSY. STOCK ROOM

BOILER: STOCK (PRINTS IN SHOP)

HYDROSTATIC TEST

FORM NO. 257-70 1 8-8-71

SPECIFICATIONS AND DIMENSIONS

BOILER MODEL	2-51	2-76	2-101	2-125	5-156	5-205	5-253	5-304	5-353	5-402	5-508
—Horsepower (Nominal)	10	15	20	25	30	40	50	60	70	80	100
—MBH	335	502	670	838	1004	1339	1673	2008	2343	2678	3347
m Per Hour From and At 212°—Lbs./Hr.	345	517	680	862	1035	1380	1725	2070	2415	2760	3450
g Rate:											
1000 BTU—MBH	420	630	840	1050	1260	1680	2100	2520	2940	3360	4200
20 MBH—GPH	3.0	4.5	6.0	7.5	9.0	12	15	18	21	24	30
50 MBH—GPH		Not Available			8.4	11.2	14	16.8	19.6	22.4	28
ing Surface (A. S. M. E.)—Sq. Ft.	51	76	101	125	156	205	253	304	353	402	508
ace Volume (Firetube Only)—Cu. Ft.	3.1	4.6	6.2	7.6	8.46	11.23	14.02	16.83	19.59	22.2	28.0
Release (Firetube Only)—BTU/Cu. Ft.	135,483	134,385	134,421	137,165	148,936	149,599	149,786	149,732	150,000	150,000	150,000
r Capacity at N. W. L.—Gal.	73	116	137	171	283	380	438	497	488	560	714
r Capacity Full—Gal.	80	126	152	190	325	437	495	603	595	681	870
roximate Shipping Weight—Lbs. (Boiler only)	1750	2245	2975	3300	4200	5300	6000	7000	8500	10000	11500
ensions:											
Overall Length	86	106	107	121	114	135	137	155	143	155	181
Overall Width	43	43	47	47	62	62	66	66	74	74	74
Overall Heighth w/o Safety Valves	53	53	60½	60½	69	69	72	72	81	81	81
Skid Length	81	101	102	116	88	101	109	128	110	118	132
Skid Width	30	30	34	34	38	38	40	40	50	50	50
Shell Diameter	30	30	34	34	48	48	52	52	60	60	60
Stack (Outside) Diameter	8	8	8	8	10	10	12	12	16	16	16
Furnace (Outside) Diameter	14	14	16	16	18	18	20	20	24	24	24
Steam Supply Size—Low Pressure	2	2½	2½	3	4	4	6*	6*	6*	6*	6*
—High Pressure	1¼	1¼	1½	1½	2	2	2½	2½	4*	4*	4*
Water Supply and Return Size	2	2	3	3	3	3	4	4	4	4	4
Feedwater Connection—Steam Only	1	1	1	1	1	1	1	1	1½	1½	1½
Blowdown Connection	1	1	1	1	1¼	1¼	1¼	1¼	1½	1½	1½
Floor to Normal Water Line	45½	45½	49½	49½	56¼	56¼	58¼	58¼	65½	65½	65½

BOILER MODEL	5-625	5-751	5-1024	5-1276	5-1506	5-1758	5-2007	5-2506	5-3004	5-3502	5-3753
—Horsepower (Nominal)	125	150	200	250	300	350	400	500	600	700	750
—MBH	4184	5021	6695	8368	10042	11716	13390	16737	20085	23450	25140
m Per Hour From and At 212°—Lbs./Hr.	4312	5175	6900	8625	10350	12075	13800	17250	20700	24150	25875
g Rate:											
1000 BTU—MBH	5250	6300	8400	10500	12600	14700	16800	21000	25200	29400	31500
20 MBH—GPH	37.5	45	60	75	90	105	120	150	180	210	225
50 MBH—GPH	35.0	42	56	70	84	98	112	140	168	196	210
ing Surface (A. S. M. E.)—Sq. Ft.	625	751	1024	1276	1506	1758	2007	2506	3004	3502	3753
ace Volume (Firetube Only)—Cu. Ft.	39.33	47.52	56.05	70.08	93.58	109.48	112.55	141.10	170.92	196.1	210.48
Release (Firetube Only)—BTU/Cu. Ft.	133,485	132,575	149,866	149,828	134,644	134,271	149,266	148,830	147,437	149,854	149,657
r Capacity at N. W. L.—Gal.	919	1111	1100	1375	1593	1864	2433	3050	3216	4133	4747
r Capacity Full—Gal.	1118	1351	1368	1710	2019	2362	2965	3717	4012	5107	5861
roximate Shipping Weight—Lbs. (Boiler only)	13000	15000	18000	21500	26000	30000	35000	40000	45000	52000	55000
ensions:											
rall Length	174	198	184	213	235	262	234	275	274	284	282	282
rall Width	81	81	91	91	97	97	108	108	114	122	130	130
rall Heighth w/o Safety Valves	90	90	99	99	106	106	117	117	123	132	138	138
l Length	134	158	143	170	190	217	185	226	228	233	234	234
l Width	50½	50½	65½	65½	70½	70½	80	80	87	87	87	87
l Diameter	67	67	77	77	83	83	94	94	100	108	116	116
ck (Outside) Diameter	18	18	20	20	24	24	24	24	26	26	26	26
urnace (Outside) Diameter	30	30	34	34	38	38	42	42	46	48	50	50
am Supply Size—Low Pressure	8*	8*	10*	10*	10*	10*	12*	12*	12*	12*	12*	12*
—High Pressure	4*	4*	6*	6*	6*	6*	8*	8*	8*	8*	8*	8*
er Supply and Return Size	6*	6*	6*	6*	8*	8*	10*	10*	10*	10*	10*	10*
dwater Connection—Steam Only	2	2	2	2	2	2	2½	2½	2½	3	3	3
wdown Connection	(2) 2**	(2) 2**	(2) 2**	(2) 2**	(2) 2**	(2) 2**	(2) 2**	(2) 2**	(2) 2**	(2) 2**	(2) 2**	(2) 2**
r to Normal Water Line	70¼	70¼	79	79	83¾	83¾	93	93	97	103¼	107¾	107¾

* Flange ** 2 Blow Downs on Models Above 5-625 Only

ections threaded
ss noted

Manway on High Pressure Units Only . . . Handhole on Low Pressure Units

Manway Standard on High & Low Pressure Units

MFGRS. SERIAL NO.	MFGRS. MODEL NO.	MANUFACTURER	DATE OF SHEET
L - 85095	CB 101-200	Cleaver Brooks	10/19/83

FURNACE VOLUME	OPERATION	USE	DATE BUILT
CU. FT.	[X] AUTOMATIC		1979

INSTALLED: 3/28/[illegible]