

NO	MAJOR COMPONENTS	NO	SERVICE CONNECTIONS	BOILER SPECIFICATIONS	NOTES
1	CONTROL PANEL	A	ELECTRIC-PAKE POWER SUPPLY 208/3/50	BOILER DESIGNATION 01102-00	BOILER IS DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE ASME BOILER AND PRESSURE VESSEL CODE - SECTION IV HEATING BOILER
2	EXHAUST PIPE	B	N/A	WATERFLOWER 80	
3	BLOWER MOTOR 2 HP	C	EXHAUST VENT PIPE 1/2" OD	FLUE GAS 22.28 & WATER 0.64	THE BOILER-BURNER PACKAGE HAS A UL LABEL
4	AIR COMPRESSOR 2 HP	D	VENT FLANGE (SEE DETAIL)	DESIGN PRESSURE 150 PSIG	THIS UNIT COMPLIES WITH INSURANCE UNDERWRITERS REQUIREMENTS FOR FACTORY BURNER
5	CONDUCTIVITY DIFFERENTIAL CONTROL (CSTB)	E	STEAM OUTLET - 8" 150# FF FLANGE	STEAM CAPACITY - 21000 LBS/H @ 212°F	THE BOILER PACKAGE IS PAINTED WITH HIGH TEMPERATURE LIGHT BLUE ENAMEL
6	FLAME SCANNER - SEPARATE	F	OVERFLOW TAPPING - 0.75 NPS	DRY WEIGHT 3200 LB	
7	PRESSURE CONTROL - OPERATING	G	N/A	WATER HEIGHT - 4800 LB	
8	PRESSURE CONTROL - HIGH LIMIT	H	FEED WATER (1) 1.25 NPS		
9	N/A	I	BLOWDOWN/DRAIN (2) 1.5 NPS		
10	WATER LEVEL WATER TROUGH - HANDHELD WELLY GIST	J	WATER COLUMN BLOWDOWN - 0.75 NPS		
11	CONDUCTIVITY WATER TROUGH - HANDHELD WELLY GIST	K	GAUGE GLASS BLOWDOWN - 0.50 NPS		
12	WELLY GAST	L	SURFACE BLOWDOWN - 1.0 NPS (NO INTERNAL PIPE)		
13	N/A	M	PILOT GAS - 0.5 NPS		
14	SAFETY VALVE - (1) 3" SET AT 150	N	MAIN GAS - 3.0 NPS		
15	SAFETY VALVE - (1) 3" SET AT 150 (SHIPPED LOST)	O	MINIMUM GAS PRESSURE REQUIRED IS 80" WC DOWNSTREAM OF THE PRESSURE REGULATOR		
16	OPERATING PRESSURE CONTROL	P	OIL FEED - 0.75 NPS		
17	LOW OIL PRESSURE SWITCH (SEE DETAIL)	Q	OIL RETURN - 0.75 NPS		
18	N/A	R	CHEMICAL FEED - 1.0 NPS		
19	N/A	S	SAFETY VALVE - (1) 2.5 NPS OUTLET		
20	N/A	T	N/A		
21	N/A				
22	HANDHOLDER (1) 3 PS X 6.5				
23	FRONT SIGHT PORT				
24	REAR SIGHT PORT				
25	BURNER				
26	WATER WELLY INCLUDING OPERATING VALVE				
27	LOW OIL PRESSURE CONTROL BY MANUAL TRIP				
28	N/A				
29	N/A				

SHIP LOOSE ITEMS
THESE ITEMS ARE SHIPPED LOOSE FOR INSTALLATION BY OTHERS

HEADER CONTROLS (2) OPERATING UNIT
HEADER CONTROLS (2) MODULATING
MAIN POWER UNFUSED DISCONNECT SWITCH
SAFETY VALVE - (1) 3" SET AT 150

BOILER CLEARANCES

THE FRONT DOOR IS HINGED
THE REAR DOOR IS SLIDING

MINIMUM CLEARANCES FOR

SEE DETAIL REAR DOOR N/A
TUBE REMOVAL (FRONT) 1'-2"
TUBE REMOVAL (REAR) 1'-2"

NOTES

BOILER IS DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE ASME BOILER AND PRESSURE VESSEL CODE - SECTION IV HEATING BOILER

THE BOILER-BURNER PACKAGE HAS A UL LABEL

THIS UNIT COMPLIES WITH INSURANCE UNDERWRITERS REQUIREMENTS FOR FACTORY BURNER

THE BOILER PACKAGE IS PAINTED WITH HIGH TEMPERATURE LIGHT BLUE ENAMEL

BOILER HAS 2" BLOWOFF INSULATION, COVERED WITH SECTIONAL SHEET METAL LAGGING

THE BURNER, APERTURE WITH FRONT HEAD IS A COMBINATION LOW PRESSURE AIR FLOWING TYPE FOR OIL AND A HIGH EXHAUST MULTI-PORT TYPE FOR GAS

THE BURNER OPERATION IS FULL MODULATING

CONTROL CIRCUIT TRANSFORMER PROVIDED
DIMENSIONS ARE AS SHOWN UNLESS OTHERWISE NOTED
THE CONNECTIONS SHOWN ON THIS DRAWING ARE APPROPRIATE AND SHOULD NOT BE USED TO DETERMINE PRE-FABRICATED ASSEMBLIES, UNLESS SPECIFIED

ADDITIONAL NOTES

LOW OIL PRESSURE SWITCH WILL BE PROVIDED
BASE PAULS PROVIDED WITH END CAPS
O-RING BOILER LOAD/LOAD SYSTEM SUPPLIED
COMPLIES WITH ASME CS-1 SAFETY CODE REQUIREMENTS
MAIN WATER CONTROL SUPPLIED WITH HANDHELD WELLY THROUGH

VENT FLANGE-15" O.D.
8" X 8" 7/16" DIA HOLES
BY 15.875" DIA BOLT CIRCLE
HOLES STRADDLE CENTERLINE

OIL TERMINAL BLOCK

GAS TRAIN SCHEMATIC

ITEM	REQ	DESCRIPTION
1	2	SHUT OFF COOKS
2	1	MAIN GAS VALVE
3	1	BUTTERFLY VALVE
4	1	LOW PILOT VALVE
5	1	PILOT PRESSURE REGULATOR
6	1	PILOT PRESSURE GAUGE
7	1	LOW GAS PRESSURE SWITCH W/P
8	1	HIGH GAS PRESSURE SWITCH W/P

WARNING: Changes, modifications or alterations are strictly prohibited. Changes to this drawing and subsequent modification of equipment could result in damage to the equipment and/or serious personal injury.

PORTLAND PRESS HERALD
PORTLAND MAINE
ADD500880-D10
DIMENSION DRAWING

DL104816
12
SHT 01 OF 04

Cleaver Brooks

CB 200 080 TEST

DL104816DD 00

THIS DRAWING IS PROPERTY OF CLEAVER-BROOKS DIVISION. IT IS LOANED TO YOU BY NMC. IT IS NOT TO BE COPIED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF CLEAVER-BROOKS DIVISION.