MAJOR COMPONENTS			
1	Control Panel	21	N/A
2	Entrance Panel	22	Handholes (6) 3.25" x 4.5"
3	Blower Motor - 15 HP	23	Front Sight Port
4	Air Compressor - 5 HP	24	Rear Sight Port
5	Combustion Safeguard Control - CB780E	25	Burner
6	Flame Scanner- Infrared	26	Alarm
7	Pressure Control - Operating Limit	27	Low Fire Hold Control
8	Pressure Control - High Limit (Manual Reset)	28	N/A
9	Pressure Control - Modulating	29	N/A
10	Main Low Water Column - Levelmaster II	30	Front Head Junction Box
11	Auxiliary Low Water Cutoff - Warrick 3C-2	31	Bottom Blowdown Piping
12	Steam Gauge	32	Surface Blowoff Piping
13	N/A	33	N/A
14	Stack Thermometer	34	N/A
15	Safety Valve (2) Set @ 150#	35	N/A
16	Gas Train	36	N/A
17	Fuel Oil Piping Terminal	37	N/A
18	Fuel Oil Pump Assembly	38	N/A
19	Manway 12" x 16"	39	N/A
20	N/A	40	N/A

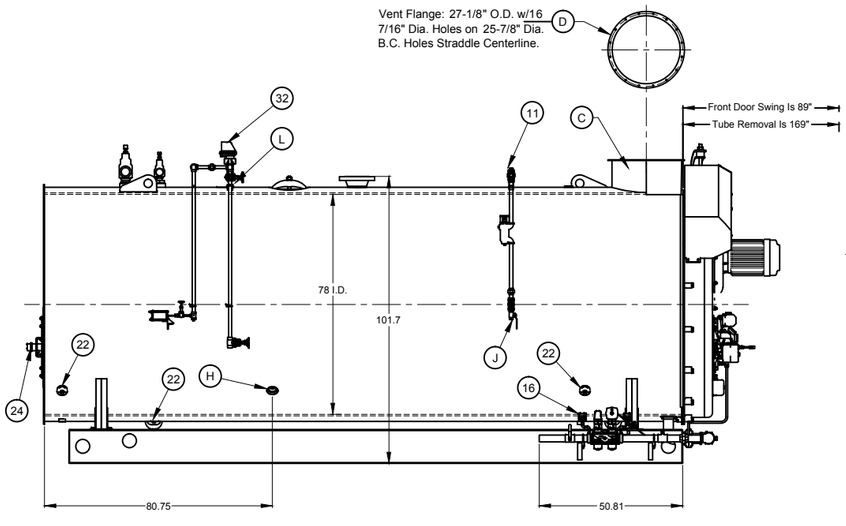
SERVICE CONNECTIONS	
A	Electric - Main Power Supply- 460 / 3 / 60
B	N/A
C	Exhaust Vent Pipe - 24" OD
D	Vent Flange (See Detail)
E	Steam Outlet - 6" 300# R.F. Flange
F	N/A
G	N/A
H	Feedwater - (2) 2.5 NPT
I	Bottom Blowdown - (2) 2.0 NPT
J	Water Column Blowdown - 0.75 NPT
K	Gauge Glass Blowdown - 0.25
L	Surface Blowoff - 1.0 NPT (with Collector Pipe)
M	N/A
N	Main Gas - 2.0 NPT
O	Minimum Inlet Gas Pressure Required is 92" w.c. Maximum Inlet Gas Pressure Required PSI: TBD Rating - 16,328 (cfh) MBtu
P	Oil Inlet - 0.75 NPT (75 PSI Required at Inlet) Rating - 116.6 gph
Q	Oil Outlet - 0.75 NPT
R	Chemical Feed - 1.0 NPT
S	Safety Valve - (1) Kunkle 6010HGE 1.5 x 2.0 FPT (Outlet)
T	Safety Valve - (1) Kunkle 6010JHE 2.0 x 2.5 FPT (Outlet)

BOILER SPECIFICATIONS
Boiler Designation - CBEX ELITE 200 400
Design Pressure - 150 ST
Design Rating - 400 hp
Emissions - 60 ppm
Fuel(s) - No. 2 Oil & Natural Gas
Steam Capacity - 13,800# stm/hr @212 deg F
Fireside Heating Surface - 1412 Sq. Ft.
Dry Weight - 26,780 LB
Normal Water Weight - 19,650 LB
Gallons (Operating) - 2,356
Code Compliance - N/A

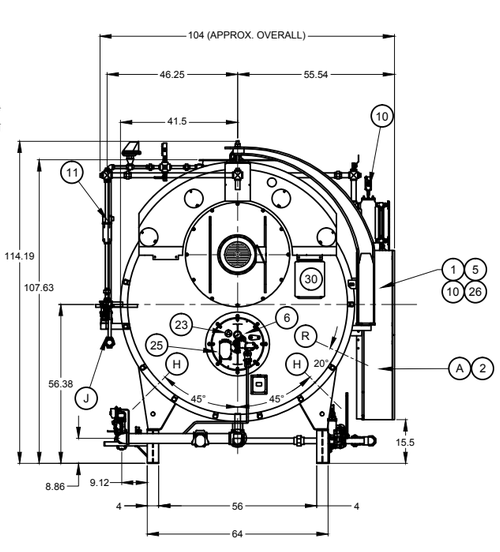
NOTES

* Boiler is Designed and Constructed in Accordance with the ASME Boiler and Pressure Vessel Code - Section 1 High Pressure Boiler
* This Unit Complies with Insurance Underwriters Requirement for None Specified
* The Boiler Package is painted with High Temperature Light Blue Enamel
* The Burner Operation is Full Modulating
* The Boiler Burner Package Has A UL Label

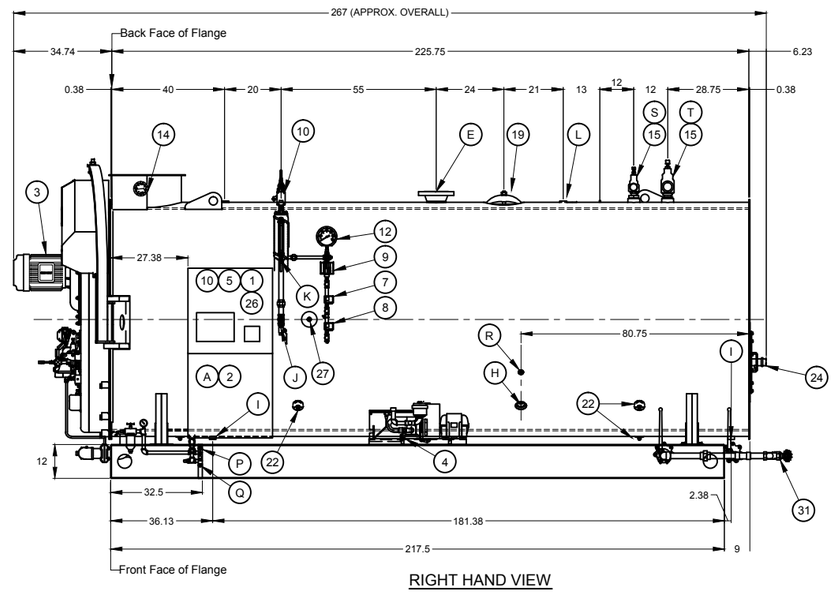
This Boiler Is Provided with:
1. Control Circuit Transformer
2. Welded End Caps on Baserails



LEFT HAND VIEW



FRONT VIEW



RIGHT HAND VIEW

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REVISIONS: 00 -/-/--

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PRELIMINARY

PRELIMINARY

DIMENSIONAL DIAGRAM

SIZE D

SHT 01 OF 02

SCALE N.T.S.

DATE 12/21/11

DRAWN H L J

CHECKED BY M S T

Cleaver-Brooks

MODEL	FUEL	SIZE	PRESSURE	CAPACITY
CBEX ELITE	200	400	150ST	
VOLTS	PHASE	HERTZ	WIRE	INSURANCE
460	3	60	3	N/A

DRWG. NO. CBEX ELITE 400 HP 150 00