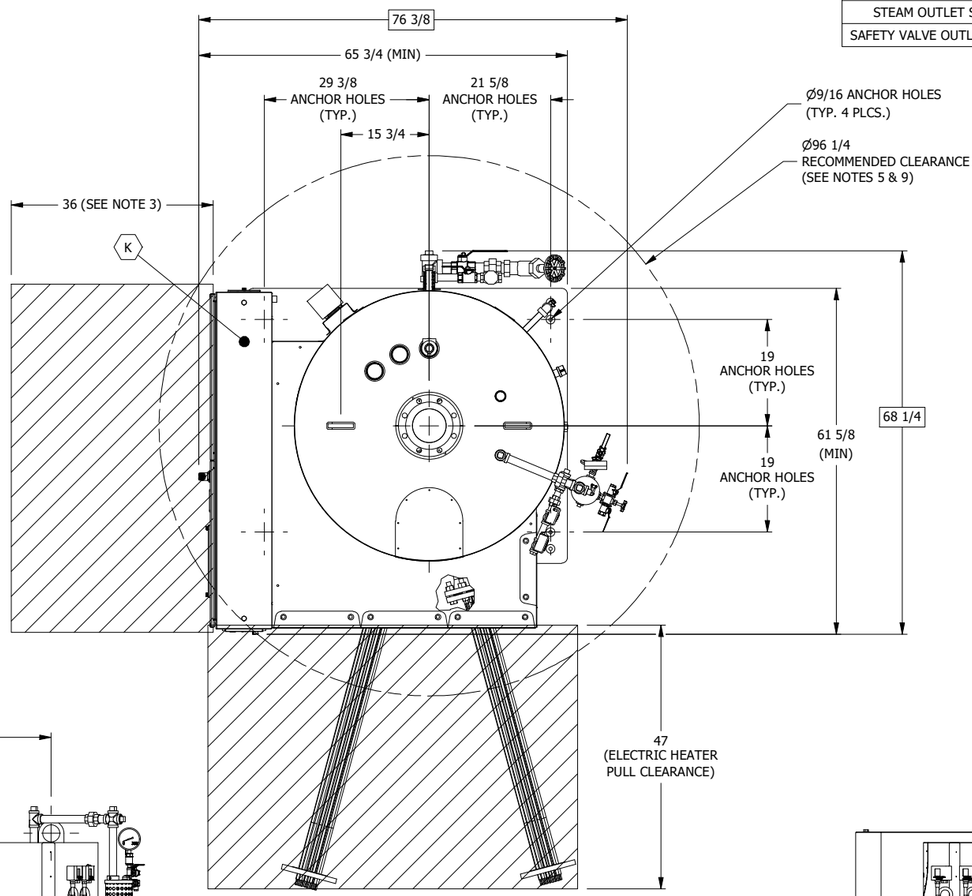
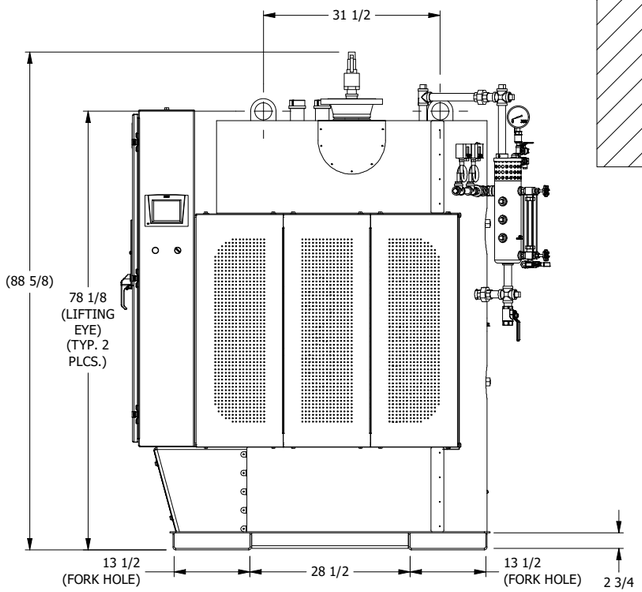
CONNECTIONS BASED ON TRIM PRESSURE							
	15 PSI	30 PSI	50 PSI	75 PSI	100 PSI	125 PSI	150 PSI
STEAM OUTLET SIZE	6"	6"	4"	4"	4"	4"	4"
SAFETY VALVE OUTLET SIZE	(2X) 2"	2"	2"	1 1/2"	1 1/2"	1 1/4"	1 1/4"

CUSTOMER CONNECTIONS			
ITEM	DESCRIPTION	SIZE	TYPE
A	FEED WATER INLET	1"	N.P.T.
B	BLOWDOWN OUTLET	1 1/2"	N.P.T.
C	STEAM OUTLET	NOTE 11*	150#
D	SAFETY RELIEF VALVE	NOTE 11*	N.P.T.
E	WATER COLUMN DRAIN	1"	N.P.T.
F	WATER SAMPLE PORT	1/4"	N.P.T.
G	STEAM SAMPLE PORT	1/4"	N.P.T.
H	SURFACE BLOWDOWN (PLUGGED)	3/4"	N.P.T.
J	HIGH WATER PROTECTION (CAPPED)	3/4"	N.P.T.
K	POWER INLET(S)	- - -	N.P.T.
L	AUXILIARY WATER COLUMN (CAPPED)	1"	N.P.T.
M	SECONDARY SAFETY RELIEF VALVE (CAPPED)	2"	N.P.T.

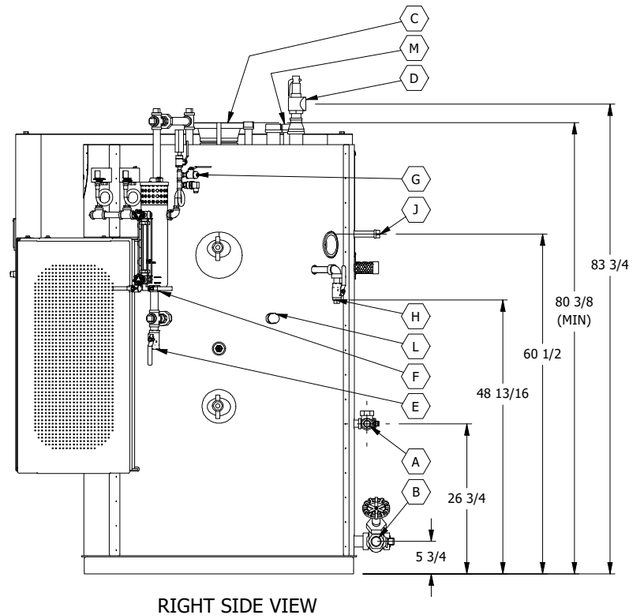
EQUIPMENT SPECIFICATION CHART	
ENERGY SOURCE:	ELECTRIC
MAX. ALLOWABLE WORKING PRESSURE:	150 PSI**
BOILER INPUT:	500 KW
BOILER OUTPUT:	1,706,000 BTU/HR
STEAM OUTPUT:	1,750 LBS/HR
MIN. SAFETY RELIEF VALVE CAPACITY:	1,750 LBS/HR
WATER CAPACITY (OPERATING):	335 GAL.
APPX. DRY WEIGHT:	4,000 LBS.
APPX. OPERATING WEIGHT:	6,800 LBS.
APPX. SHIPPING WEIGHT:	4,300 LBS.
APPX. FLOODED WEIGHT:	7,500 LBS.
NUMBER OF HEATERS:	(5) - 100KW
TURNDOWN:	100:1 WITH FULL MODULATION



TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW

NOTES:

1. STEAM OUTPUT LB/HR: FROM 0 PSIG AT 212°F (0 KG/CM² AT 100°C)
2. ALL CLEARANCES ARE FACTORY RECOMMENDATIONS. CONSULT LOCAL JURISDICTION FOR EXACT CODE COMPLIANCE.
3. FULTON RECOMMENDS MINIMUM CLEARANCE OF 36" IN FRONT OF ELECTRICAL PANELS.
4. FULTON RECOMMENDS 36" CLEARANCE BETWEEN INSPECTION OPENINGS OF ALL BOILERS AND 18" CLEARANCE OF HANDHOLES
5. PLEASE REFER TO THE O&M MANUAL FOR ADDITIONAL INFORMATION REGARDING CLEARANCES AND INSTALLATION INSTRUCTIONS.
6. ALL DIMENSIONS INSIDE ( ) DENOTE REFERENCE DIMENSIONS.
7. ALL DIMENSIONS INSIDE □ DENOTE OVERALL DIMENSIONS.
8. WE RESERVE THE RIGHT TO CHANGE SPECIFICATIONS AND/OR DIMENSIONS. ALL INFORMATION IS SUBJECT TO CHANGE BASED ON ADDITION OF ANY OPTIONAL EQUIPMENT AND/OR ACCESSORIES. PLEASE CONSULT THE FACTORY FOR PROJECT SPECIFIC ESTIMATES IF ADDITIONAL OPTIONS OR ACCESSORIES ARE REQUIRED.
9. LOCAL CODES CAN SUPERCEDE FULTON RECOMMENDED CLEARANCE.
10. CONSULT MODEL TECHNICAL DATA SHEET FOR HOW TO MAINTAIN 100kA SCCR RATING.
11. *SIZES BASED ON TRIM PRESSURE AND OPTIONS.
12. **BOILER CAN BE BUILT IN COMPLIANCE WITH ASME SECTION IV CODE WITH 15 PSI MAWP.

REV	REVISION DESCRIPTION	CHECKED	B.O.M.	MECH. ENG	ELEC. ENG	APPROVED
B	UPDATED LOCATION OF BLOWDOWN OUTLET P.DUNLEAVY 10/30/2025					R.H. 10/30/2025

REVISION HISTORY

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES

TOLERANCES	INCH	[METRIC]
FRACTION & WHOLE VALUE	± 1/8	± 3mm
(1) PLACE DEC.	± 0.03	± 0.7mm
(2) PLACE DEC.	± 0.015	± 0.38mm
(3) PLACE DEC.	± 0.005	± 0.12mm
ANGLE		± 0.5DEG ± 0.5 DEG
SURFACE FINISH	250 MICRO-INCHES	6.35 MICRO-METERS

This design and drawings are proprietary and are the exclusive property of The Fulton Companies. The corporation does not permit their use except with prior written consent.

The items shown in this drawing may be covered by one or more patents of The Fulton Companies.

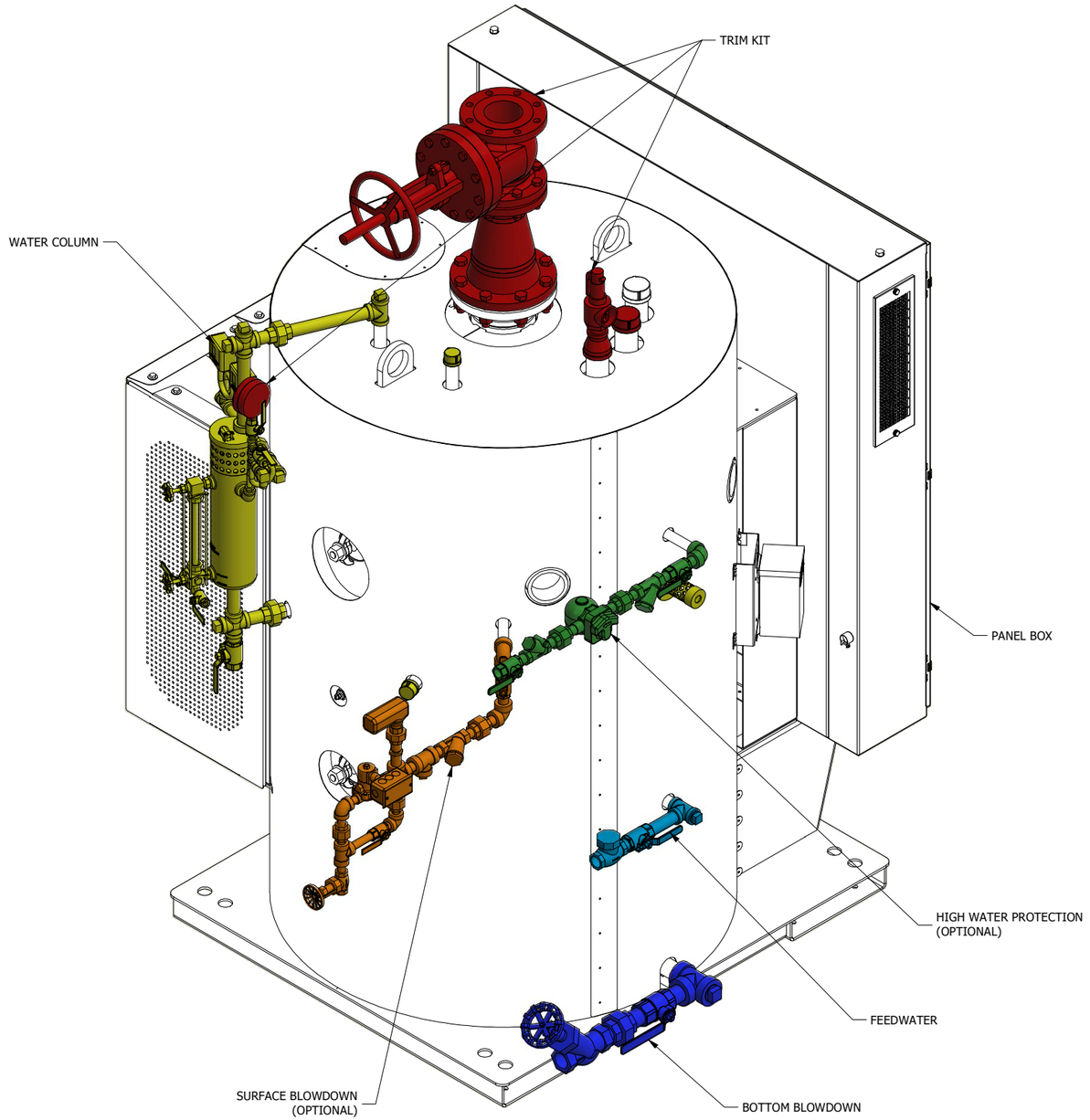
THIRD ANGLE PROJECTION

DRAWN BY: N. ISGAR 3/12/2024	MECHANICAL REVIEW: N/A	JOB NUMBER:	DESCRIPTION: FBZ-500 (500KW) ELECTRIC STEAM BOILER
CHECKED BY: N/A	ELECTRICAL REVIEW: N/A	PROJECT NAME:	
B.O.M. REVIEW: N/A	APPROVED BY: N/A	PROJECT MANAGER:	

SHEET 1 OF 2

Fulton Thermal Corporation

DRAWING NUMBER	REVISION
6-91-610050 - PDS	B



BACK RIGHT VIEW

NOTES:
1. CUSTOMERS MAY REFER TO THEIR QUOTE OR ACKNOWLEDGMENT FOR THE LIST OF FEATURES AND OPTIONS RELEVANT TO THEIR CONFIGURATION.

2. SOME OPTIONAL COMPONENTS SHOWN ON THIS PAGE.

REV	REVISION DESCRIPTION	CHECKED	B.O.M.	MECH. ENG	ELEC. ENG	APPROVED
B	UPDATED LOCATION OF BLOWDOWN OUTLET P.DUNLEAVY 10/30/2025					R.H. 10/30/2025

REVISION HISTORY

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES

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THIRD ANGLE PROJECTION

DRAWN BY: N. ISGAR 3/12/2024	MECHANICAL REVIEW: N/A	JOB NUMBER:	DESCRIPTION: FBZ-500 (500KW) ELECTRIC STEAM BOILER
CHECKED BY: N/A	ELECTRICAL REVIEW: N/A	PROJECT NAME:	
B.O.M. REVIEW: N/A	APPROVED BY: N/A	PROJECT MANAGER:	SHEET 2 OF 2

Fulton Thermal Corporation

DRAWING NUMBER	REVISION
6-91-610050 - PDS	B