

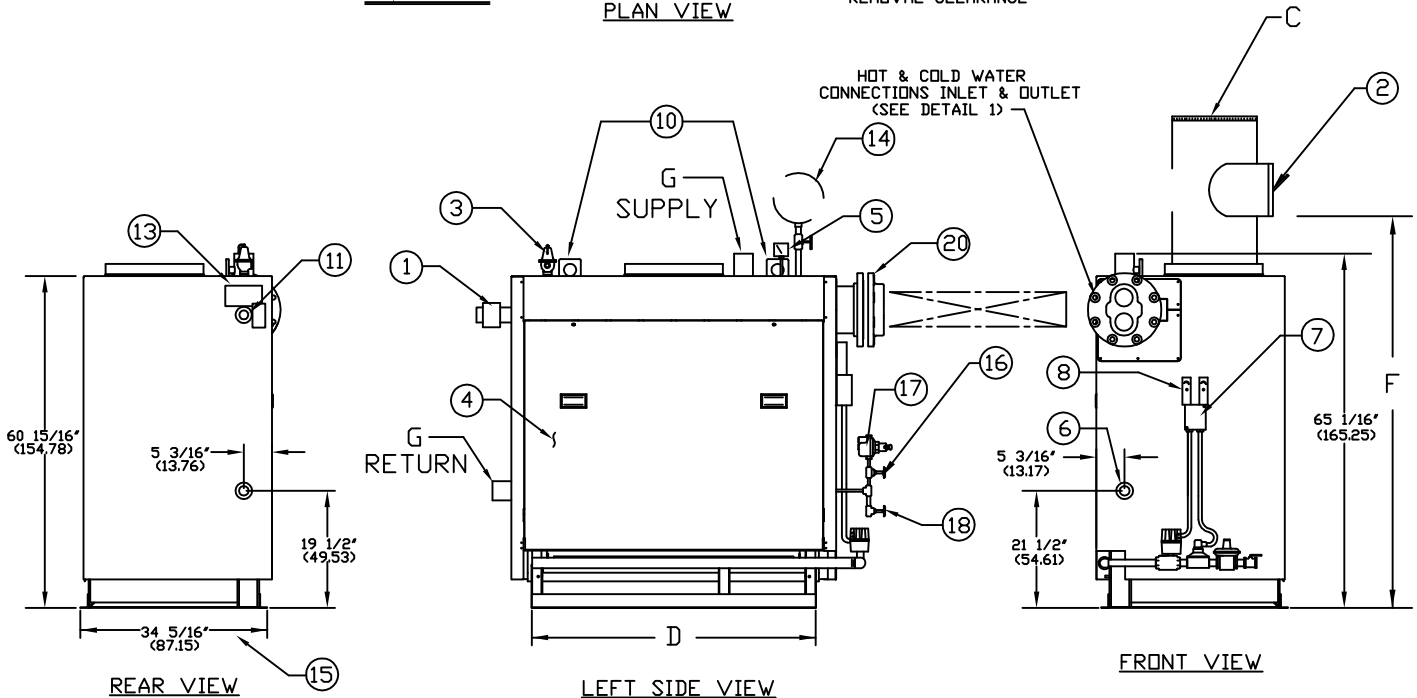
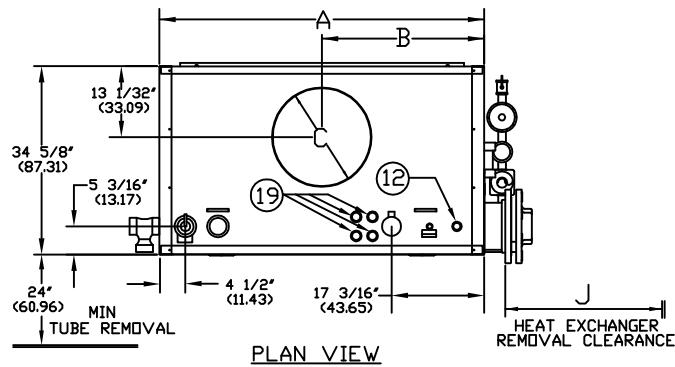
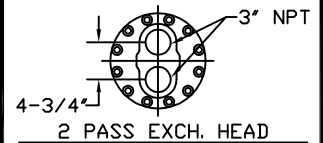
CLM SERIES ATMOSPHERIC GAS POOL HEATERS (CLM90-CLM300)

EFFECTIVE DATE: 7/9/15
REPLACES: 11/17/06

NOTES:

1. ALL DIMENSIONS ARE IN INCHES THOSE IN PARENTHESES ARE CENTIMETERS.
2. LOCATION DIMENSIONS ARE ALL $\pm 1/2"$.
3. GAS TRAIN AND CONTROL LOCATION WILL VARY DEPENDING ON JOB SPECIFICATIONS & CONDITIONS.
4. DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. CONSULT FACTORY FOR CERTIFIED DIMENSIONS.
5. COIL HEAD WILL ADD $1\ 9/16"$ TO OVERALL WIDTH. AND $8\ 11/16"$ TO LENGTH.

DETAIL 1



1. PROBE TYPE L.W.C.D.-	6. CLNOUT./INSP. OPNG-1 1/2\"NPT	11. CLNOUT./INSP. OPNG-1 1/4\"NPT	16. STOP VALVE
2. BARDOMETRIC DAMPER	7. ELEC. ENCLOSURE-	12. 1\" (2.54) EXP TANK CONN	17. FILL VALVE
3. RELIEF VALVE	8. AQUASTATS	13. ASME NAME TAG	18. DRAIN VALVE
4. TUBE ACCESS PANEL		14. EXPANSION TANK (LOOSE)	19. CONTROL CONNECTIONS
5. PRESS/TEMP. GAUGE	10. LIFTING LUG	15. WIDTH OVER MTG BASE	20. HEAT EXCHANGER

BOILER MODEL	CLM90WP	CLM120WP	CLM150WP	CLM180WP	CLM210WP	CLM240WP	CLM270WP	CLM300WP
A-LENGTH OVER JACKET	41 7/16\" (105.24)	50 11/16\" (128.74)	59 11/16\" (151.60)	69 1/8\" (175.57)	78 3/8\" (199.07)	88\" (232.52)	97\" (246.38)	106 5/8\" (270.82)
B-FLUE LOCATION	20 23/32\" (52.62)	25 11/32\" (64.37)	29 27/32\" (75.80)	34 9/16\" (87.78)	39 3/16\" (99.53)	44\" (111.76)	48 1/2\" (123.19)	53 5/16\" (135.41)
C-FLUE DIAMETER	14\" (35.56)	16\" (40.64)	18\" (45.72)	20\" (50.80)	20\" (50.80)	22\" (55.88)	22\" (55.88)	22\" (55.88)
D-LENGTH OVER BASE	33 5/8\" (85.40)	42 7/8\" (108.90)	52 1/8\" (132.39)	61 7/16\" (156.05)	70 11/16\" (179.54)	80\" (203.20)	89 1/4\" (226.69)	98 1/2\" (250.19)
F-HEIGHT TO BARDOMETRIC	70 15/16\" (180.17)	72 7/16\" (183.98)	72 15/16\" (185.25)	73 7/16\" (186.52)	73 15/16\" (186.52)	74 7/16\" (189.06)	74 15/16\" (190.33)	75 7/16\" (191.60)
G-SUPPLY/RETURN NOZZLE SIZE	3\" (7.62)	3\" (7.62)	3\" (7.62)	3\" (7.62)	3\" (7.62)	3\" (7.62)	3\" (7.62)	3\" (7.62)
J-HEAT EXCHANGER REMOVAL CLEARANCE	44\" (111.76)	54\" (137.2)	63\" (160.0)	72\" (185.4)	81\" (205.7)	91\" (231.1)	100\" (254.0)	109\" (276.9)



BRYAN BOILERS

783 NORTH CHILI AVE
PERU, INDIANA 46970

ORDER NO.:

ORDER REV. NO.:

FORM NO. 2148

CLM SERIES ATMOSPHERIC GAS POOL HEATERS

BOILER MODEL		CLM90	CLM120	CLM150	CLM180	CLM210	CLM240	CLM270	CLM300
INPUT	MBH	900	1,200	1,500	1,800	2,100	2,400	2,700	3,000
	(KW)	263.7	351.6	439.5	527.4	615.3	703.2	791.1	879.0
OUTPUT*	MBH	720	960	1,200	1,440	1,680	1,920	2,160	2,400
	(KW)	211.0	281.3	351.6	421.9	492.2	562.6	632.9	703.2
BOILER HORSEPOWER	HP	21	29	36	43	50	57	65	72
	(KW)	205.8	281.0	351.3	421.6	491.8	562.1	632.4	702.6
TUBE DIAMETER	INCHES	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	(CM)	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54
NUMBER OF TUBES		27	36	45	54	63	72	81	90
PRESSURE VESSEL									
VOLUME	GAL	30	38	47	55	63	71	80	88
	(L)	113.6	143.8	177.9	208.2	238.5	268.7	302.8	333.1
HEATING SURFACE	SQ FT	110	145	180	215	251	287	322	360
	(SQ M)	10.2	13.5	16.7	20.0	23.3	26.7	29.9	33.5
INDIRECT HEAT EXCHANGER		UT8Fx-xx-44	UT8F-2-xx-54	UT8F-2-xx-63	UT8F-2-xx-72	UT8F-2-xx-81	UT8F-2-xx-91	UT8F-2-xx-100	UT8F-2-xx-109
	INCHES	44	54	63	73	81	91	100	109
	(CM)	111.8	137.2	160.0	185.4	205.7	231.1	254.0	276.9
OPERATING WEIGHT	LBS	2,250	2,817	3,192	3,609	4,000	4,392	4,792	5,292
	(KG)	1,020.6	1,277.8	1,447.9	1,636.9	1,814.6	1,992.3	2,173.7	2,400.4
SHIPPING WEIGHT	LBS	2,150	2,500	2,800	3,150	3,475	3,800	4,125	4,558
	(KG)	975.2	1,134.0	1,270.1	1,428.8	1,576.3	1,723.7	1,871.1	2,067.5

* Output based on nominal 80% of input. Actual combustion efficiencies may vary.
 xx Number of tubes.