

BRYAN BOILERS

AB - PF
DATE: 07/15/14

Originators of the "Flexible Water Tube" design

POWERFLAME - "CR" BASE BURNER DATA "AB" SERIES BOILERS

BOILER MODEL	INPUT		BASE BURNER MODEL (1)	COMBUSTION CONTROL MODEL/SCANNER (2)		IGNITION MEANS (3)		MOTOR DATA HP (4)		FIRING SYSTEM	GAS TRAIN DATA			OIL DATA	
	MBH	GPH		GAS & GAS / OIL	OIL	GAS & G/O	OIL	GAS	OIL & G/O		TRAIN SIZE NPT (5)	STANDARD PRESS IN. W.C./PSI		PUMP LOC (6)	SUC. CAP (GPH)
												MIN	MAX		
AB 90	900	6.4	CR1 - ** -12	RM7897C/UV	R7184P/CC	GP	DS	1/3	1/3	ON-OFF	1"	6.0"	14.0"	BM	35
AB 120	1200	8.6	CR1 - ** -12	RM7897C/UV	R7184P/CC	GP	DS	1/3	1/2	ON-OFF	1-1/4" - 1"	6.0"	14.0"	BM	35
AB 150	1500	10.7	CR2 - ** -15	RM7897C/UV	R7184P/CC	GP	DS	1/2	3/4	ON-OFF	1-1/4" - 1"	7.0"	14.0"	BM	35
AB 200	2000	14.3	CR2 - ** -15	RM7897C/UV	RM7897C/UV	GP	DS	1/2	3/4	ON-OFF	1-1/4"	7.0"	14.0"	BM	35
AB 250	2500	17.8	CR2 - ** -20B	RM7897C/UV	RM7897C/UV	GP	DS	1	1-1/2	LO-HI-OFF	2" - 1-1/2"	6.0"	14.0"	BM	42
AB 300	3000	21.4	CR3 - **20	RM7897C/UV	RM7840L/UV	GP	DS	1-1/2	2	LO-HI-OFF	2" - 1-1/2"	7.0"	14.0"	BM	42

STANDARD GAS TRAIN COMPONENTS			
COMPONENT	AB 90 TO AB 200	AB 250	AB300
Manual Shutoff Valve (point of field connection)	STD.	STD.	STD.
Gas Pressure Regulator	STD.	STD.	STD.
Main Oper. Gas Valve - Diaphragm type	STD.	N/A	N/A
Main Oper. Gas Valve - Motorized type	OPT.	STD.	STD.
Auxiliary Oper. Gas Valve - Solenoid type	STD.	STD.	STD.
Low Gas Pressure Switch	OPT.	OPT.	STD.
High Gas Pressure Switch	OPT.	OPT.	STD.
Manual Checking Shutoff Gas Valve	STD.	STD.	STD.
STANDARD OIL COMPONENTS			
Dual Shutoff Valves	STD.	STD.	STD.

- ABBREVIATIONS:
- (1)** Insert: "G" - Gas, "G/O" - Gas/Oil, "O" = Oil
 - (2) Combustion Control:
 - Scanner - "UV" = Ultra Violet
 - "CC" = Cad Cell
 - (3) Ignition means:
 - "GP" - Gas Pilot
 - "DS" - Direct Spark

- (4) Motor Voltage: 60 Hz - Motor RPM: 3450 RPM
 - 1/3 HP to 1/2 HP = 120/1 Ph
 - 3/4 HP & 1 HP = 230/1 PH
 - 1 1/2 HP & Larger = 208-240-480/3 Ph (please specify)
- (5) Dual size gas trains: Main & aux. gas valve and leak test cock are first size. Gas Reg. and main shutoff cock are second number.
- (6) Oil Pump Location:
 - "BM" - Burner Mounted
 - "RM" - Remote Mounted



NOTES >>>

1. Burner capacities listed for elevations up to 2,000 ft. For higher elevations, consult local Bryan Boilers sales office.
2. Oil ratings based on No. 2 fuel with heating value of 140,000 Btu per gallon.
3. Gas rating based on natural gas with heating value of 1000 Btu per cubic foot and specific gravity of .60. Gas burners for other gases are available, consult local Bryan Boilers sales office.



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