

# BRYAN BOILERS

RV - PF  
DATE: 01/01/06  
REPLACES: 05/02/04

Originators of the "Flexible Water Tube" design

**POWERFLAME BASE BURNER DATA**  
**"RV" SERIES BOILERS**  
**NATURAL GAS / No. 2 OIL**

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, G/O, OIL *	OIL	GAS & G/O	OIL	GAS	OIL & G/O		TRAIN SIZE NPT (6)	STANDARD PRESS IN. W.C./PSI		PUMP LOC (5)	SUC. GEAR CAP (GPH)
												MIN	MAX		
RV 350	3500	21.4	CR3 - **	RM7895C/UV	RM7896A/UV	GP	DS	1-1/2	2	LO-HI-OFF	2"	7.0"	1 PSI	BM	105
RV 400	4000	25.0	CR3 - **	RM7895C/UV	RM7896A/UV	GP	DS	1-1/2	2	LO-HI-OFF	2-1/2"	7.0"	1 PSI	BM	105
RV 450	4500	28.5	CR3 - **	RM7895C/UV	RM7896A/UV	GP	DS	3		LO-HI-OFF	2"	14.0"	1 PSI	BM	105
RV 500	5000	35.7	CR4 - **	RM7895C/UV	RM7896A/UV	GP	GP	3	5	MODULATION	2"	14.0"	1 PSI	BM	135
RV 550	5500	39.2	CR4 - **	RM7895C/UV	RM7896A/UV	GP	GP	5		MODULATION	2"	14.0"	1 PSI	RM	135
RV 600	6000	42.8	CR4 - **	RM7895C/UV	RM7896A/UV	GP	GP	5		MODULATION	2" / 2-1/2"	14.0"	1 PSI	RM	135
RV 700	7000	50.0	CR4 - **	RM7840L/UV	RM7840L/UV	GP	GP	5		MODULATION	2" / 2-1/2"	18.0"	1 PSI	RM	135
RV 800	8000	57.1	CR5 - **	RM7840L/UV	RM7840L/UV	GP	GP	7-1/2		MODULATION	2" / 2-1/2"	24.0"	1 PSI	RM	135

**STANDARD GAS TRAIN COMPONENTS**

COMPONENT	RV300 TO RV500	RV550 TO RV800
Manual Shutoff Valve (point of field connection)	STD.	STD.
Gas Pressure Regulator	STD.	STD.
Main Oper. Gas Valve - Motorized type	STD.	N/A
Main Oper. Gas Valve w/ PC - Motorized type	OPT.	STD.
Auxiliary Operating Gas Valve - Solenoid type	STD.	STD.
Low Gas Pressure Switch	STD.	STD.
High Gas Pressure Switch	STD.	STD.
Manual Checking Shutoff Gas Valve	STD.	STD.

**STANDARD OIL COMPONENTS**

COMPONENT	RV350 TO RV500	RV550 & RV600	RV700 & RV800
Dual Shutoff Valves	STD	STD.	STD.
Remote Mounted Oil Pump HP rating		3/4	1

ABBREVIATION (1)\*\* Insert: "G" - Gas, "C" - Gas/Oil, "O" - Oil

(2) Comb. Control: Model -  
RM7895A/C, RM7896A, RM7840L and

\* RM7896C used on Gas/Oil all models  
Scanner - "UV" - Ultra Violet

(3) Ignition Means:  
"GP" - Gas Pilot  
"DS" - Direct Spark

(4) Motor Voltage: 60 HZ - Motor RPM: 3450

1/3 HP to 1 HP = 120/1 Ph

1 1/2 HP & Larger = 208-240-480/3 Ph (please specify)

(5) Oil Pump Location:

"BM" - Burner Mounted

"RM" - Remote Mounted

(6) Gas Train: Main & aux. valves and leak test cock are first number. Gas reg. and main shutoff cock are second.

**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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