

BRYAN BOILERS

DR - M
DATE: 01/01/06
REPLACES: 05/02/04

Originators of the "Flexible Water Tube" design

MIDCO BASE BURNER DATA FOR DR SERIES BOILERS NATURAL GAS

BOILER MODEL	INPUT (MBH)	BASE BURNER MODEL	COMBUSTION CONTROL (1) MODEL/SCANNER	IGNITION MEANS (2)	MOTOR DATA			FIRING SYSTEM GAS	GAS TRAIN DATA		
					VOLT 60HZ	HP	RPM		TRAIN SIZE NPT (3)	STANDARD PRESS IN. W.C.	
										MIN	MAX
DR250	250	RE4400DS	S87K/FR	DS	120/1	1/6	3450	ON-OFF	3/4"	7.0"	14.0"
DR350	350	RE4400DS	S87K/FR	DS	120/1	1/6	3450	ON-OFF	3/4"	7.0"	14.0"
DR450	450	RE4700BA	S8680J/FR	GP	120/1	1/6	3450	ON-OFF	1"	7.0"	14.0"
DR650	650	RE4700BA	S8680J/FR	GP	120/1	1/6	3450	ON-OFF	1"	7.0"	14.0"
DR850	850	RE4850BA	S8680J/FR	GP	120/1	1/6	3450	ON-OFF	1 1/4"-1"	7.0"	14.0"



STANDARD GAS TRAIN COMPONENTS		
COMPONENT	BOILER MODEL	
	DR250 TO DR650	DR850
Manual Shutoff Valve (point of field conn.)	STD.	STD.
Combination (3 Funct.) Main Gas Valve	STD.	NA
Gas Pressure Regulator	(FUNC. 1)	STD. (4)
Main Operating Gas Valve	(FUNC. 2)	STD. (4)
Auxiliary Operating Gas Valve	(FUNC. 3)	STD.
Manual Checking Shutoff Gas Valve	OPT.	STD.

ABBREVIATIONS:

- (1) Combustion Control: Model S87K OR S8680J (24 volt control), Scanner FR - Flame Rod
- (2) Ignition Means: "DS" Direct Spark
"GP" Gas Pilot
- (3) Gas Train: Main gas shutoff valve and gas pressure regulators are first size and gas operating and auxiliary valves are second size.
- (4) Dual function gas valve - regulator and operating valve

NOTES:

1. Burner capacities listed for elevations up to 2,000 ft. For higher elevations, consult local Bryan Boilers sales office.
2. 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.
3. Minimum gas pressures listed are subject to variations due to job conditions. Gas burners for other gas pressures are available, consult local Bryan Boilers sales office.



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