

-88

Water & Steam Boilers - Series 2

For Gas, Light Oil, & Gas/Light Oil - Fired Burners

Burner Specification& Data Sheet

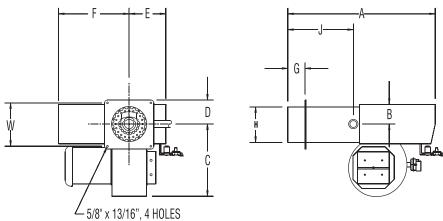
Power Flame

Gas Burners

Models WJ30A, WJ50A



Figure 1 Model WJA



Burner Model Number	А	В	С	D	E	F	G	Н	J	W
WJ30A	25.25	3.50	12.50	4.63	7.38	11.75	3.50	6.13	11.50	7.25
WJ50A	29.75	4.38	14.00	5.25	8.50	11.75	4.00	8.13	13.63	8.25



Burner Input	Positive Pressure In Firebox	Burner Model	Burner Motor	Standard	Pressure Drop Thru Gas Train & Orifice Tee	Gas Tee (8) Pressure	Orifice Tee Drill Size	At Gas Co	ure Required ontrol Inlet es W.C.*	
Gas MBH	Inches w.c.	Designation	3430 крiіі п. <i>г</i> .	wotor voitage	Inches w.c.	Inches w.c.	Inches	Minimum	Maximum	
996	0.43	WJ30A-10	1/3	120/60/1	2.20	2.10	_	4.30	14.00	
1010	0.43	WJ30A-10	1/3	120/60/1	2.30	2.30	_	4.50	14.00	
1357	0.44	WJ50A-15	1/3	120/60/1	1.80	3.20	13/16	5.00	14.00	
1703	0.46	WJ50A-15	1/3	120/60/1	2.40	2.30	_	4.70	14.00	
2049	0.47	WJ50A-15	1/2	120/60/1	2.50	3.10	_	5.60	14.00	
1 1	Gas 1BH 996 010 357 703	In Firebox Gas Inches w.c. 1996 0.43 010 0.43 357 0.44 703 0.46	In Firebox Model Designation 1096 0.43 WJ30A-10 1010 0.43 WJ30A-10 1357 0.44 WJ50A-15 1010 0.46 WJ50A-15	In Firebox Model Designation Surner Motor 3450 Rpm H.P.	In Firebox Model Designation Standard Standar	In Firebox Model Designation Standard Motor Voltage Inches w.c. Inches w.c. Inches w.c. Inches w.c. Inches w.c	In Firebox Model Designation Standard Motor Voltage Worlfice Tee Inches w.c. Inches w.c.	In Firebox Model Designation Model Designation Standard Motor Voltage & Orifice Tee Pressure Drill Size	In Firebox Model Designation Model Designation Standard Motor Voltage W Orifice Tee Inches w.c. In	

^{*} Gas pressures shown are for standard gas train arrangement. Contact Weil-McLain for alternate gas trains to support other pressures.

Standard Gas Control Components and Sizes in Inches												
Boiler Model Number	Manual Hand Valve (Point Of Field Connection) Low Gas Pressure Switch		Pressure Gas Valve And Opera		Motorized Operating Gas Valve	Motorized Operating Gas Valve (With Proof Of Closure)	Safety Gas Valve	Manual Checking Gas Valve	High Gas Pressure Switch			
488R & 488	1	Optional	Optional	1	Optional	Optional	*	1	Optional			
588 & 688	11/4	Optional	Optional	11/4	Optional	Optional	*	11/4	Optional			
788	1½	Optional	Optional	11/2	Optional	Optional	*	1½	Optional			
* Combination operating gas valve and regulator also service as a soften gas valve												

^{*} Combination operating gas valve and regulator also serves as a safety gas valve.

Flame Safeguards Provided with Listed Control Systems by Code

GAS BURNERS

Boiler	UL			FM			CSD-1				IRI					
Model Number	00	LH0	LHL	MOD	00	LH0	LHL	MOD	00	LH0	LHL	MOD	00	LH0	LHL	MOD
488R-688	RM7897A	_	RM7897C	RM7897C	RM7840L											
788	_	RM7897A	RM7897A	RM7897A	_	RM7897A	RM7897A	RM7897A	_	RM7897A	RM7897A	RM7897A	_	RM7897C	RM7897C	RM7840L

Notes

- Standard Flame Safeguard Control is RM7897A with pre-purge and flame rod
- 2. Electric gas pilot furnished as standard equipment.
- 3. 488R-688 standard gas controls provide on-off operation with fixed combustion air control (OO system). 788 standard gas controls provide on-off operation, low fire start, high fire run and two-position air control, controlled by damper arm on motorized gas valve (LHO system).
- Optional gas controls for all burner sizes; LHL low-high-low-off firing conditions and two-position air control; MOD – on-off operation, proven low fire start and full modulating firing conditions with modulating combustion air control.
- Burner capacities listed for elevations up to 2,000 feet. For higher elevations, consult local Weil-McLain distributor/agent or sales office.

- Gas ratings based on natural gas with heating value of 1,000 Btu per cubic foot and specific gravity of 0.60. Gas burners for other gases are available. Consult local Weil-McLain distributor/agent or sales office.
- 7. Boiler-burner unit to be adjusted to achieve +0.10 inches W.C. pressure at flue collar, resulting in positive pressure in firebox as listed.
- Minimum gas pressures listed are subject to variations due to job conditions. Gas burners for other gas pressures are available. Consult local Weil-McLain distributor/agent or sales office.
- Gas tee pressures shown are for initial start-up. Final pressure should be determined after checking actual gas flow and combustion readings.



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