



Burner specifications and data

Carlin burners

Models **EZ-3HPW**, **201CRD-W**, **301CRD-W**, **702CRD-W** and **801CRD-W** *Flame*

retention type, for light oil firing

Model EZ-3HPW



Models 201CRD-W and 301CRD-W



Models 702CRD-W and 801CRD-W



Burner Model Number	Motor Size H.P. (3450 RPM)	Standard motor Electrical Characteristics	Optional Motor Electrical Characteristics	Approximate Shipping Weight (lbs)	
EZ-3HPW	1/7	120/60/0	240/60/0	45	
201CRD-W	1/4	120/60/1	240/60/1	58	
301CRD-W	1/4	120/60/1	240/60/1	58	
702CRD-W	1/2	120/60/1	240/60/1	75	
801CRD-W	3/4	240/60/1	208-240/60/3	90	

Carlin - EZ-3HP-W, 201CRD-W, 301CRD-W, 702CRD-W and 801CRD-W



Burner Input (forced draft) Boiler No. 2 oil model	Low fire firing rate No. 2 oil	Positive pressure in firebox	Standard burner model designation	Standard combustion control	Air band setting	Starting head setting	Approximate air settings	
Humber	GPH GPH		Inches W.C.	uesignation	Control		Setting	Low fire
380	2.40		0.28	EZ-3HP-W	60200	2.50	2.50	
480	3.40		0.28	201CRD-W	60200	60%	7/16	
580	4.45		0.28	301CRD-W	60200	50%	7/16	
680	5.50		0.27	301CRD-W	60200	100%	1/2	
780	6.50	3.75	0.27	702CRD-W	60200		1/8	5/16
880	7.50	4.50	0.27	702CRD-W	60200		1/4	5/16
980	8.50	5.00	0.27	702CRD-W	60200		3/8	3/8
1080	9.60	5.50	0.26	702CRD-W	60200		9/16	3/8
1180	10.60	6.00	0.26	702CRD-W	60200		3/4	3/8
1280	11.60	5.50	0.26	801CRD-W	60200		1/4	1/8

Notes

- Burner capacities listed for elevations up to 2,000 feet. For higher elevations, consult local Weil-McLain distributor/agent or sales office.
- 2 Oil ratings based on No. 2 fuel oil with heating value of 140,000 Btu per gallon.
- **3** Boiler-burner unit to be adjusted to achieve + 0.1 inches W.C. pressure at flue collar, resulting in positive pressure in firebox as listed.
- 4 60200 combustion safety control uses a cadmium sulfide cell flame detector to monitor oil flame, provides interrupted duty, recycle type operation, latch-up feature, 30-second oil valve delay on, 30-second post purge, alarm contacts and safety monitor circuit.

2 Part Number 550-141-931/0602

Burner Specification and Data Sheet



Boiler										ating sure(s)	Fuel unit Burner-motor driven 3450 RPM	
model number	Primary nozzle			Alternate nozzle						_	Gearset	
number	Size GPH	Brand	rand Type Angle		Size GPH	Brand	Туре	Angle	Low High fire		Type (Suntec)	capacity GPH
380	2.00	Delavan	Α	45°	2.00	Hago	Н	45°		150	A2VA-3006	17
480	2.75	Hago	Р	60°	2.75	Danfoss	AS	60°		150	B2YA-8916	25
580	3.75	Hago	Р	60°	4.00	Delavan	В	70°		150	B2YA-8916	25
680	4.50	Hago	Р	60°	4.50	Delavan	В	70°		150	B2YA-8916	25
780	3.75	Hago	Р	45°	4.00	Delavan	В	60°	100	300	B2TA-8851-4	33
880	4.50	Hago	Р	45°	4.50	Delavan	В	60°	100	300	B2TA-8851-4	33
980	5.00	Hago	Р	45°	5.00	Delavan	В	60°	100	300	B2TA-8851-4	33
1080	5.50	Hago	Р	45°	5.50	Delavan	В	60°	100	300	B2TA-8851-4	33
1180	6.00	Hago	Р	45°	6.00	Delavan	В	60°	100	300	B2TA-8851-4	33
1280	5.50 (Low Fire-Top Nozzle) 4.00 (High Fire-Bottom Nozzle)	Hago	Р	45°	5.50 (Low Fire-Top Nozzle) 4.00 (High Fire-Bottom Nozzle)	Delavan	В	45°	150	150	B2TA-8260	39

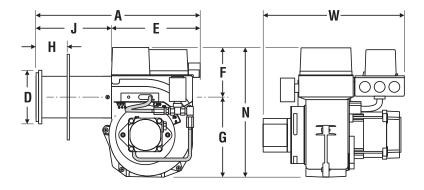
Notes

- **5** All motors furnished with integral overload protection with manual reset.
- **6** EZ-3HP-W, 201CRD-W and 301CRD-W burners are furnished for on-off operation only. 702CRD-W and 801CRD-W burners are furnished with mechanical pressure atomizing oil control system with on-off operation, low fire start, high fire run and two-position air control as standard. Low-high-low fire operation can be obtained by addition of SPST temperature or pressure controller.
- **7** Settings shown are for initial start-up. Final settings should be determined after combustion readings.
- 8 120/60/1 control circuit is used for all burners.

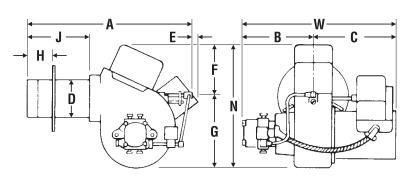
Part Number 550-141-931/0602



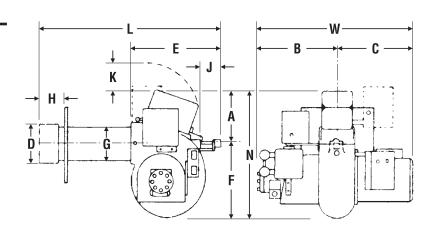
Dimensions — **EZ-3HPW**



Dimensions — 201CRD-W and 301CRD-W



Dimensions — 702CRD-W and 801CRD-W



Burner Model Number	Dimensions in inches												
	Α	В	С	D	E	F	G	Н	J	K	L	N	W
EZ-3HP-W	14.00	-	-	4.00	7.00	4.00	6.75	3.00	7.00	-	-	10.75	12.50
201CRD-W	18.63	7.88	8.38	4.13	1.00	5.50	7.75	3.00	7.00	-	-	13.25	16.25
301CRD-W	17.44	7.88	8.38	4.13	1.00	5.50	7.75	3.00	7.00	-	-	13.25	16.25
702CRD-W	7.50	9.50	10.00	5.88	13.00	9.00	4.13	4.00	3.00	3.00	20.75	16.50	19.50
801CRD-W	8.00	12.00	11.00	5.88	14.50	10.50	5.25	4.00	3.00	3.00	20.50	18.50	23.00



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