



Burner specifications and data

Beckett burners

Models CF500-W, CF800-W, CF1400-W and CF2300A-W Flame retention type, for light oil firing

Model CF500-W

Model CF800-W

Model CF1400-W

Model CF2300A-W









Burner Model Number	Length (from mounting flange to label area on burner front)	Overal l width	Motor size H.P.	Standard motor electrical characteristics	Optional motor electrical characteristics					
CF500-W	11.00	14.75	1/3	120/60/1	240/60/1					
CF800-W	11.00	14.75	1/3	120/60/1	240/60/1					
CF1400-W	20.75	22.50	1/2	120/60/1	240/60/1*					
CF2300A-W	21.25	24.00	3/4	120/60/1	240/60/1 240/60/3					
* Optional motor contactor supplied.										

Beckett - CF500-W, CF800-W, CF1400-W and CF2300A-W



Boiler	Burner Input (forced draft)	Low fire firing rate	Positive pressure in	Standard burner	Standard	Air tube	Air	Air	Starting head setting	Approximate air settings	
model number	No. 2 oil GPH	No. 2 oil GPH	firebox Inches w.c.	model designation	combustion control	combination	band setting	shutter setting		Low fire	High fire
380	2.40		0.34	CF500-W	R8184G	CF60KK	0.00	4.00	1.50		
480	3.40		0.33	CF500-W	R8184G	CF60KK	1.00	10.00	4.00		
580	4.45		0.32	CF800-W	R8184G	CF60KHS	0.00	7.00	2.00		
680	5.50		0.31	CF800-W	R8184G	CF60KHS	3.00	10.00	4.00		
780	6.50	4.59	0.30	CF1400-W	R8184G	CF66KD			3.00	2.00	4.50
880	7.50	5.51	0.29	CF1400-W	R8184G	CF66KD			4.00	2.40	4.20
980	8.50	6.12	0.28	CF1400-W	R8184G	CF66KD			5.00	2.50	6.00
1080	9.60	6.73	0.27	CF1400-W	R8184G	CF66KE			3.00	3.00	5.80
1180	10.60	7.35	0.26	CF2300A-W	R8184G	CF66KG			0.00	1.50	2.80
1280	11.60	8.57	0.25	CF2300A-W	R8184G	CF66KG			0.50	3.00	6.00

Notes

- **1** 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** R8184G combustion safety control uses a cadmium sulfide cell flame detector to monitor oil flame, provides intermittent direct spark ignition of oil flame and manual lockout switch.

2 Part Number 550-141-936/0602

Burner Specification and Data Sheet



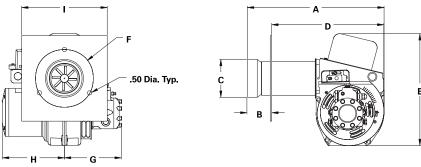
Boiler model number Size GPH		Oil nozzle (one per unit)								Operating oil pressure(s)		Fuel unit		
		Primary nozzle				Alternate nozzle				PSIG		Burner-motor driven, 3450 RPM		
		Brand	Туре	Angle	Size GPH	Brand	Туре	Angle	Low fire	High fire	Type (Suntec)	Nozzle capacity	Gearset capacity, GPH*	
380	2.00	Delavan	В	60°	2.00	Hago	Р	45°		140	B2YA-8916	7	25	
480	2.75	Hago	Р	45°	2.75	Monarch	PLP	45°		150	B2YA-8916	7	25	
580	3.75	Hago	Р	30°	3.50	Hago	Р	30°		150	B2TA-8248	8	27	
680	4.50	Hago	Р	45°	4.50	Delavan	В	45°		150	B2TA-8248	8	27	
780	3.75	Hago	Р	45°	4.00	Hago	Р	45°	150	300	B2TA-8851-4	16	33	
880	4.50	Hago	Р	45°	4.50	Hago	Р	60°	150	275	B2TA-8851-4	16	33	
980	5.00	Hago	Р	45°	5.00	Delavan	В	45°	150	300	B2TA-8851-4	16	33	
1080	5.50	Delavan	В	45°	5.50	Hago	Р	45°	150	300	B2TA-8851-4	16	33	
1180	6.00	Hago	Р	45°	6.00	Delavan	В	45°	150	300	B2GA-8852	23	39	
1280	7.00	Hago	Р	45°	7.00	Delavan	В	60°	150	280	B2GA-8852	23	39	
				*	Not U.L. rati	ng — use wl	nen sizinç	g auxiliary p	umps and piping	j.				

Notes

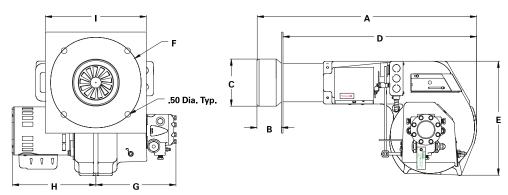
- **5** All motors furnished with integral overload protection with manual reset.
- **6** CF500-W and CF800-W burners are furnished for on-off operation only. CF1400-W and CF2300A-W burners are furnished with mechanical pressure atomizing oil control system with on-off operation, low fire start, high 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 550-141-936/0602





Beckett Models CF500-W and CF800-W



Beckett Models CF1400-W and CF2300A-W

Burner model	Air tube combination	Dimensions, in inches									
		A Overall length	B Insertion depth	C Maximum tube O. D.	D Burner length	E Overall height	F Bolt circle	G Centerline to pump	H Centerline to motor	I Square flange width & height	
CF500-W	CF600KK	14.00	3.00	4.13	10.88	13.00	6.75	6.50	7.50	10.00	
CF800-W	CF60KHS	14.00	3.00	4.13	10.88	13.00	6.75	6.50	7.50	10.00	
CF1400-W	CF66KD	24.75	4.00	5.50	20.63	13.50	10.00	9.50	9.82	12.00	
CF1400-W	CF66KE	24.75	4.00	5.88	20.63	13.50	10.00	9.50	9.82	12.00	
CF2300A-W	CF66KG	25.25	4.00	6.50	21.13	15.60	10.00	10.40	12.00	12.00	



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