

Gilbert & Barker Mfg. Company

Springfield, Massachusetts

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GILBARCO FLEXIBLE FLAME OIL BURNERS

"Gilbarco" Flexible Flame Oil Burners are of the pressure atomizing type, suitable for residential and commercial use in steam, hot water, vapor, or warm air heating systems. Their operation is fully automatic with controls and safety devices integral with the system. Due to the flexibility of the flame, the "Gilbarco" Burner is enabled to more completely fill the fire box with a heat-giving radiant flame.



Model GB8

Each "Gilbarco" Burner combines the following definite advantages: (1) Flexible Flame with "Econ-O-Flex" controlled combustion—assuring tailor-made application. (2) Forced draft—insuring complete combustion. (3) Radiant type flame—gives great heat output. (4) Constant electric ignition. (5) Separate air and oil controls—insuring complete combustion.

(6) Oil filter in oil line—assuring clean oil at all times. (7) Radio interference eliminator. (8) Burner installed outside boiler insures long life, easy inspection and service and general operating efficiency. (9) Quiet operation—no gears, belts or noisy mechanisms.

SPECIFICATIONS OF AND CAPACITIES FOR 60 CYCLE MOTOR BURNERS

(Write to us for capacities of D.C. and odd cycle motor burners)

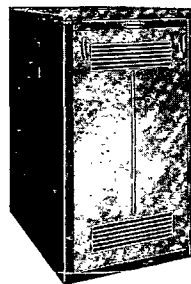
MODEL NUMBER	GB1	GB3	GB5	GB4	GB5
Max. oil capacity per hour, U. S. Gallons	3.00	6.00	11.0	15.00	25.00
Total Steam Radiation (Radiation, piping, and pickup)	1150	2350	4400	6000	10,000
Total Hot Water Radiation (Radiation, piping, and pickup)	1840	3760	7040	9600	16,000
Ignition	Continuous electric single transformer	Continuous electric single transformer	Continuous electric single transformer	Continuous electric two transformers	Continuous electric two transformers
Motor (size)	1/12 H. P.	1/8 H. P.	1/6 H. P.	1/4 H. P.	1/3 H. P.
Controls	Stack mounted Protectorelay and Thermostat	Stack mounted Protectorelay and Thermostat	Protectorelay Protectorelay and Thermostat	Protectorelay Protectorelay and Thermostat	Protectorelay Protectorelay and Thermostat
RPM	1750	1750	1750	1750	1750

GILBARCO HEAVY OIL BURNERS—

Complete Range for Industrial Heating and Power Application

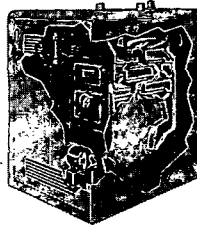
GILBARCO SERIES "A6" BOILER BURNER UNITS

Three models for both steam and hot water in the "A6" series which range in capacity from 548 ft to 860 ft of steam radiation (gross) and 876 ft to 1376 ft of hot water (gross). The boiler, especially designed for oil fuel, is of cast iron, which can be molded into effective types of heat-absorbing surfaces. "A6" series models are completely automatic and the high efficiencies which are attained in the boiler are due to the fact that the heat gases are compelled to be in direct contact with the heat-absorbing surfaces at all times. All series "A6" Gilbarco Boiler Burner Units are designed to include:



Outside view of the "A6" Series Gilbarco Boiler Burner Unit. Furnished in two-tone green with chrome trim.

Built-in hot water coil and Aquastat; Low-water Cut-off on steam systems; Insulating Refractory combustion chamber, Pressuretrol on steam systems; Surface Aquastat on hot water systems.

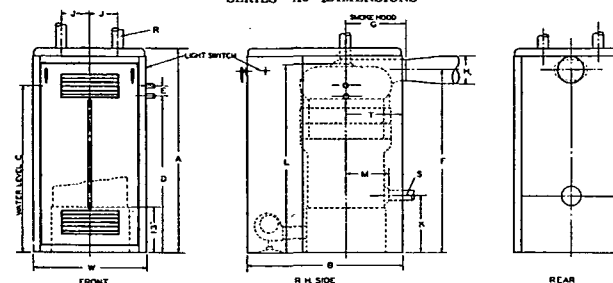


Cutaway view showing construction and gas travel. Toggle switch on outside of cabinet controls lighting of burner compartment. Gauges easily read through ventilator openings.

*GILBARCO SERIES "A6" RATINGS

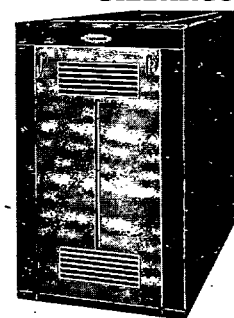
Unit No.	SQUARE FEET STEAM RADIATION				SQUARE FEET HOT WATER RADIATION				DOMESTIC WATER COIL CAPACITIES GALLONS OF WATER IN THREE HRS. 100°F. Temperature Rise			
	Without Domestic Water Coil		With Standard Coil		Without Domestic Water Coil		With Standard Coil		Steam Boilers at 180°F. Average Temp.		Hot Water Boilers at 150°F. Average Temp.	
	Gross	Net	Net	Net	Gross	Net	Net	Net	Standard Coil	Special Coil	Standard Coil	Special Coil
A6-19	548	350	321	291	876	560	539	514	40	80	20	40
A6-20	700	450	416	391	1120	720	692	674	45	90	22.5	40
A6-22	860	550	515	491	1376	880	853	834	50	100	25	40

SERIES "A6" DIMENSIONS



	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T
A6-19	37 1/2	29 1/2	47 1/2	44 1/2	2 1/2	31 1/2	16 1/2	8	7 1/2	16 1/2	34 1/2	11 1/2	31 1/2	2 1/2	4	11 1/2			
A6-20	37 1/2	41 1/2	47 1/2	44 1/2	2 1/2	31 1/2	16 1/2	8	7 1/2	16 1/2	34 1/2	11 1/2	31 1/2	2 1/2	4	11 1/2			
A6-22	37 1/2	44 1/2	47 1/2	44 1/2	2 1/2	31 1/2	16 1/2	8	7 1/2	16 1/2	34 1/2	11 1/2	31 1/2	2 1/2	4	11 1/2			

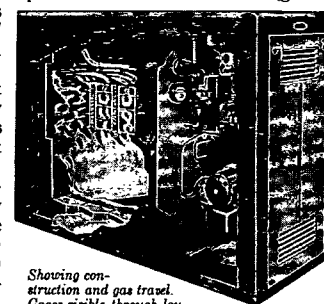
GILBARCO SERIES "BF" BOILER UNITS (Oil Fired)



"BF" Series Gilbarco Boiler Unit. (Oil Fired) Furnished in two-tone green with chrome trim.

There are five models for both steam and hot water systems in the "BF" series which range in capacity from 780 to 2030 sq ft of steam (gross) and equivalent in hot water (gross). Like the "A6" series the boilers of the "BF" series are of cast iron construction insuring peak efficiency and great durability. The specially designed boiler combines the following important efficiency factors:

(1) Extended fin type heating surfaces. (2) Low draft loss. (3) Large combustion chamber. (4) Quick steaming. (5) Water-backed combustion chamber. (6) Ground joints between sections. (7) Unique gas travel. (8) Positive internal water circulation. (9) Large steam liberating surface. (10) Compact size.



Showing construction and gas travel. Gages visible through louvers in door.

(10) Compact size.

*GILBARCO SERIES "BF" RATINGS

Unit No.	SQUARE FEET STEAM RADIATION				SQUARE FEET HOT WATER RADIATION				DOMESTIC WATER COIL CAPACITIES GALLONS OF WATER IN THREE HRS. 100°F. Temperature Rise			
	Without Domestic Water Coil		With Standard Coil		Without Domestic Water Coil		With Standard Coil		Steam Boilers at 180°F. Average Temp.		Hot Water Boilers at 150°F. Average Temp.	
	Gross	Net	Net	Net	Gross	Net	Net	Net	Standard Coil	Special Coil	Standard Coil	Special Coil
BF-3	780	500	428	384	1248	800	740	706	100	160	50	80
BF-4	1095	700	628	584	1743	1120	1060	1026	100	160	50	80
BF-5	1405	900	828	784	2248	1440	1380	1346	100	160	50	80
BF-6	1720	1100	1028	984	2752	1760	1700	1666	100	160	50	80
BF-7	2030	1300	1228	1184	3246	2080	2020	1986	100	160	50	80

*NOTE.—Gross rating is the total output in square feet of radiation at the boiler nozzle. Net ratings represent the allowable standing cast iron radiation which can be connected to each boiler when the domestic hot water load is as shown at the top of each column. No deduction for the hot water coil, regardless of storage tank size, should be made from the net rating, since the maximum load imposed by each coil has already been deducted. Efficiency—Series "A6" Boilers show a test efficiency of 77 per cent, Series "BF"