

S. T. JOHNSON CO.

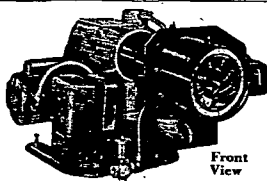
940 Arlington Ave.,
Oakland 8, Calif.



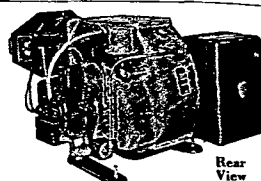
Church Road,
Bridgeport, Pennsylvania



Bankheat
Oil Burner



Forced Draft, Gas Only Burner
Size 100



Forced Draft Comb. Oil & Gas Burner
Size 100

BANKHEAT BURNERS

Pressure-atomizing type. Fully automatic. Pump-driven oil is pressure atomized and mixed with whirling jet of fan-driven air to burn with a soft, clean flame while suspended in air. Bankheats are available in units that burn Oil, Gas or Combination Oil and Gas. These time tested, high efficiency burners are used all over the world for "conversions" and for every type of domestic and commercial heating need; Hot Water, Steam or Hot Air. Literature on Bankheat Burners and on many Johnson-built complete "package-units" powered with Bankheats is available on request.

Sizes and Capacities, Bankheat Burners

SIZE	MAX FIRING RATE		MAX BOILER OUTPUT			
	Oil gph	Gas CFH 1000 Btu	Steam Sq Ft	Water Sq Ft	HP	
0	2 1/4	315	900	1450	6 1/4	
0A	3	420	1300	2100	9	
1A	5 1/4	770	2300	3650	16	
2	7 1/2	1050	3100	4950	22	
2A	10	1400	4150	6650	30	
3	15	2100	6200	9900	45	
3A	18	2520	7500	12000	54	

JOHNSON "HEAT SERVANT" BOILER WATER HEATER PACKAGE-UNITS
A size and type for any Domestic or Commercial Water Heating requirements

Model VV
Vertical
Boiler-Burner Units

This new line of Johnson engineered and Johnson built "Heat Servant" Boiler-Burner Units is now available in several types of vertical and horizontal models which offer you a wide choice of sizes and capacities. All are powered by Bankheat Burners.

MODEL VV UNITS are Vertical Firetube Boilers, water-backed to the bottom of the combustion chamber. Available for Hot Water Heating in 12 sizes from 125 to 1000 MBH, and for Steam Heating in 7 sizes from 125 to 850 MBH. They are ASME constructed and stamped. Available if desired, with instantaneous type submerged domestic-water coil. Flue outlets are located top center, but boiler tubes can be cleaned without disturbing flue, water or wiring connections. Galvanized units are available for direct Hot Water Supply.

MODEL VM "AQUILUX" Vertical Hot Water Supply Units are similar in appearance to Model VV shown above. They are built with galvanized shell and with insulated combustion chamber be-



Model HZ
Horizontal Water Heater
Boiler-Burner Units

low the lower tubesheet. They are furnished as Standard Non-Code, but are also available with ASME Code Stamp. Built in 7 sizes from 85 to 550 MBH, and with storage capacities from 20 to 120 gal.

MODEL HZ "AQUILUX" Horizontal Hot Water Supply Units are built in 3 sizes: 100, 150 and 225 MBH, with storage capacities of 50, 75 and 100 gal. respectively. They are 3-pass Scotch Boiler design with galvanized shell and are furnished Standard Non-Code with 3/8" shell and 1/4" head. They can be had, if so desired, with ASME Code Stamp.

MODEL HS Boiler Units of 3-pass Scotch Marine type, similar in appearance to Model HZ shown above. They are available in 6 sizes from 325 to 2000 MBH, ASME Code Constructed with stamp. Available for Steam Heating or Hot Water Heating with submerged domestic water coil if so desired. Galvanized shells can be furnished for direct Hot Water Supply units.

FORCED DRAFT BANKHEAT BURNERS

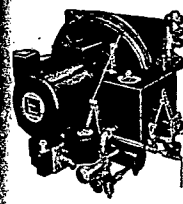
For firing on Oil, Gas or Combination Oil & Gas. Built to give you maximum-efficiency combustion without the aid of an Induced-Draft Fan or a tall chimney. These fuel-saving units minimize pulsation problems on "hard to fire" installations involving either positive or negative firebox pressures. Five sizes: 30, 40, 60, 80 and 100 hp. (Ratings based on positive firebox pressures up to 0.75 in. wc.) Easy to wire, install and service. Flange mounts furnished. Straight-Electric or Gas-Electric Ignition (according to type & size) with Electronic Controls to suit.

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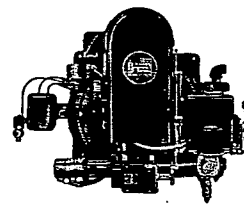
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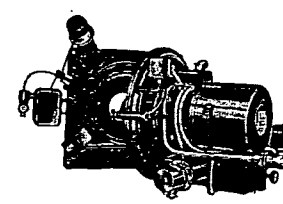
Church Road,
Bridgeport, Pennsylvania



Model 53 Burner



Model 53 Burner with Belt Drive



Model 53 Combination Oil-and-Gas Burner

JOHNSON MODEL 53 METERING PUMP BURNERS
Fast Positive Starting. Smooth Operation. Greater Fuel Economy.

SIZES AND CAPACITIES, MODEL 53

These rotary-type burners were designed to produce sure, automatic "starts" even when the oil in storage tank and lines is cold and hard to pump. This important performance feature was accomplished by using a positive-displacement Metering Pump, . . . a 3-Way Magnetic Oil Valve, . . . and a high efficiency Suction Pump, which enable Model 53 Burners to maintain, automatically, a fixed air-fuel-ratio regardless of variations in oil temperature and viscosity.

They are easy to set and to control. Firing Rate can be determined by reading the setting of the Metering Pump Quadrant. All working parts are quickly accessible for servicing or repair. The fuel economy and reliability of these burners has been thoroughly established in every type of heavy duty service throughout America and numerous foreign countries. Model 53 Burners are available with either conventional Direct Drive or with Belt Drive for use in installations using 50 cycle current to maintain 60 cycle speed, . . . and on installations where additional capacity is required.

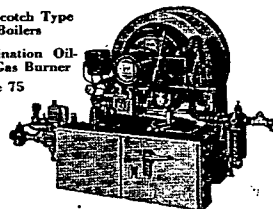
They are available for firing on Oil Only, Gas Only, or as Combination Oil-and-Gas Burners. There are 9 sizes ranging from 28 to 560 hp and from 3980 to 78600 sq ft Steam Radiation.

Burner Size*	Motor HP	Pre-heater KW	Suction Pump Capacity	METERING PUMP CAPACITY GPH		BURNER RATING					
				Oil	Gas	Steam Radiation	Boiler Rating	Boiler Rating	Boiler Rating	Boiler Rating	Boiler Rating
28	1/2	2	40	7.5	9.5	8.5	285	3980	4390	454	454
30	3/4	2	40	15	18.75	17	57	1945	7850	18750	1913
40	1	2	60	22.5	28.12	25	83	2900	11700	18750	2813
60	1 1/2	3	80	30	37.5	34	113	3950	15550	25500	3225
80	2	4	100	40	50	45	147	5000	22400	37500	4625
100	2 1/2	5	125	50	62.5	57	183	6150	27500	45000	5725
150	3 1/2	7 1/2	175	75	93.75	85	275	9200	40000	66000	8325
200	4 1/2	10	225	100	125	113	363	12250	52000	84000	10750
300	6 1/2	15	337	150	187.5	168	545	18400	78000	126000	16125
400	8 1/2	20	444	200	250	224	737	24550	104000	168000	21500
500	10 1/2	25	555	250	312.5	280	920	30700	130000	208000	26750

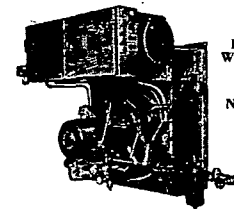
* Capacity and ratings are based on 60 cycle current.
* Burner size designation is boiler horsepower developed at nominal firing rate obtained at metering pump setting of 1.0.
† Maximum metering pump capacity setting 1.25 is maximum firing rate.
‡ Burner rating is based on specific conditions of draft, combustion volume and combustion chamber design. Under favorable conditions, it may be permissible to use maximum firing rate. Under restricted conditions, it may be desirable to use reduced firing rates. Ratings based on 150,000 Btu/gal and 75 percent efficiency. For use with #2 to #6 C.E.C. Fuel Oil.

COMPACT FORCED DRAFT Package Unit BURNERS

For Scotch Type
Boilers
Combination Oil-
and-Gas Burner
Size 75



Built for firing on Oil Only, Gas Only or as Combination Oil-and-Gas Burners. Two types are available for use on Scotch Type or Firebox Type boilers. They are engineered to provide all the air needed for proper combustion regardless of stack conditions and firebox pressure variations.



For Firebox and
Water Tube Boilers
Oil Only
No. 5 or No. 6 Oil
Size 150

All these Forced Draft Package Units are factory-assembled, wired and tested, complete with all the controls mounted in dust type cabinet, ready for fast, inexpensive installation on any standard size and type of boiler. They are available in the sizes and capacities listed above for Johnson 53 Burners.

SHEETS GIVING CATALOG DATA AND SAMPLE SPECIFICATIONS ARE AVAILABLE ON REQUEST