



HYDROTHERM

NORTHVALE, NEW JERSEY



PACKAGED AUTOMATIC GAS HEATING PLANTS

Providing Space or Volume Water Heating
for Residential, Commercial and Industrial Uses
45,000 BTU/hr to 3,600,000 BTU/hr input ratings



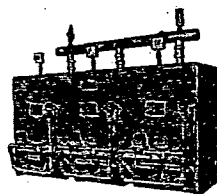
Model R-150
with Hammeroid finish jacket;
425 lbs. 16 in. x 31 in. x 27 in.

HYDROTHERM boilers are of all cast iron construction and are exclusively designed for gas. The patented absorption unit, composed of deep-rib horizontal sections connected in zigzag, permits maximum heat transfer in minimum space with small water content. This "true" gas design results in low fuel consumption, quick heat response, uniform heat transfer, self-cleaning flue passages, and small installation space. HYDROTHERM boilers are A.G.A.-approved for all gases and are factory assembled and wired with safety and gas controls, ready for quick installation. Boiler and controls are enclosed in an attractively finished insulated steel jacket.

All boilers are tested at 250 lb hydrostatic pressure and carry a 100 lb ASME rating which permits direct connection of boilers to city water lines as required for volume water heating applications.

HYDROTHERM

MULTI-TEMP



Multi-Temp
Model R-900; 1800 lbs.,
65 in. x 26 in. x 37 in.

MULTI-TEMP, a new concept in heavy duty gas-fired hot water heating, provides any desired capacity with a multiple of HYDROTHERM units, each equipped with its own controls. True input modulation is accomplished by making boiler units respond to the return water temperature through aquastats with differential settings in the return manifold. At a cold start, all units go on; as the return water temperature rises, one or more units drop out according to their own aquastat settings till the input is just enough to maintain the design water temperature, effecting a year-round fuel saving of up to 20 percent.

MULTI-TEMP, being composed of multiple units, offers extra protection against service interruption. Each boiler unit is shipped completely assembled to simplify field installation.

CAPACITY RANGE OF HYDROTHERMS

Model No.	Space Heating A.G.A. Ratings				Volume Water Heating Gallons per Hour for Temperature Rise Shown							
	Natural, Mixed and Manufactured Gas		L. P. Gas (Propane)		Natural, Mixed and Manufactured Gas				L. P. Gas (Propane)			
	input 1000 Btu/hr	output 1000 Btu/hr	input 1000 Btu/hr	output 1000 Btu/hr	60°	80°	100°	120°	60°	80°	100°	120°
SINGLE UNIT												
M-45	45	36	180	42	33.8	165	77	54	43	36	20	17
M-75	75	37.8	225	72	57.6	115	86	115	86	57	40	33
M-100	100	80	400	100	80	240	135	102	81	85	54	45
R-100	100	80	400	100	80	400	160	120	96	80	100	80
R-150	150	120	600	145	116	580	240	180	144	120	103	85
R-180	180	144	720	180	144	720	288	216	172	144	120	100
R-210	210	168	840	210	168	840	336	252	202	168	145	118
R-250	250	200	1,000	250	200	1,000	400	300	240	200	172	145
R-300	300	240	1,200	300	240	1,200	480	360	288	240	200	172
MULTI-TEMP SINGLE JACKET												
R-350	350	288	1,440	350	288	1,440	560	420	350	300	260	220
R-400	400	324	1,600	400	324	1,600	640	480	400	340	300	260
R-500	500	400	2,000	500	400	2,000	800	600	500	430	400	340
R-600	600	480	2,400	600	480	2,400	960	720	600	520	480	400
R-750	750	600	3,000	750	600	3,000	1,200	900	750	650	600	500
R-900	900	720	3,600	900	720	3,600	1,440	1,080	900	780	720	600
MULTI-TEMP MULTIPLE JACKET												
R-1000	1,000	800	4,000	1,000	800	4,000	1,600	1,200	1,000	850	800	680
R-1200	1,200	960	4,800	1,200	960	4,800	1,920	1,440	1,200	1,020	960	800
R-1500	1,500	1,200	6,000	1,500	1,200	6,000	2,400	1,800	1,500	1,300	1,200	1,000
R-1800	1,800	1,440	7,200	1,800	1,440	7,200	2,880	2,160	1,800	1,600	1,400	1,200
R-2100	2,100	1,680	8,400	2,100	1,680	8,400	3,360	2,520	2,100	1,850	1,700	1,450
R-2400	2,400	1,920	9,600	2,400	1,920	9,600	3,840	2,880	2,400	2,100	1,900	1,600
R-2700	2,700	2,160	10,800	2,700	2,160	10,800	4,320	3,240	2,700	2,350	2,150	1,800
R-3000	3,000	2,400	12,000	3,000	2,400	12,000	4,800	3,600	3,000	2,600	2,400	2,000
R-3300	3,300	2,640	13,200	3,300	2,640	13,200	5,280	3,960	3,300	2,850	2,650	2,200
R-3600	3,600	2,880	14,400	3,600	2,880	14,400	5,760	4,320	3,600	3,100	2,900	2,400

* These ratings are based on piping and pickup factors established by "The Institute of Boiler Manufacturers." When piping losses are negligible, output may be increased 12 per cent, as in panel and baseboard heating, etc.



THE INTERNATIONAL BOILER WORKS CO.

500 Birch Street

East Stroudsburg, Pa.

A Complete Line of WATER TUBE Heating and Power Boilers

International water tube design assures high heat absorption and exceptionally low operating cost with all fuels. Boiler water circulation is positive and directed, delivering a constant payload of steam or hot water to the boiler nozzle. Every International Boiler is built to ASME code requirements, and is tested and approved by a nationally recognized insurance company before shipment. Full access is provided for cleaning BOTH the fireside and waterside of all tubes without dismantling the boiler.

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PACKAGE BOILERS

... fully automatic and factory coordinated.

the COMPAK - Forced Draft Series

Forced draft operation eliminates the need for an induced draft fan or separate controls. Available as Type FPL for low pressure steam or hot water heating and as Type FPH for high pressure steam generation in sizes from 12 to 750 hp. Write for Bulletin 1400.

the COMPAK - Induced Draft Series

... noted for high thermal efficiency, quiet operation and convertibility to coal firing. Type PL units (15 lb steam, 30 lb water) ... and Type PH units (130, 160 or 200 psig) are built in sizes from 12 to 600 hp. Write for Bulletin 600.

the COAL-PAK AUTOMATIC - Bituminous Coal Fired

First FULLY AUTOMATIC package unit complete with combustion controls, automatic coal feed and ash removal system for burning LOW COST BITUMINOUS COAL cleanly and efficiently. Type PSL (15 lbs. steam, 30-lb water) and Type PSH (130, 160 or 200 psig) in sizes from 71.6 to 300 hp. Write for Bulletin 1100.

the THERMOJET-Oil/Gas Fired

This LOW HEADROOM forced recirculation package unit features famous LeMONT boiler design specifically adapted for SINGLE BUILDING low or high temperature hot water heating systems. Type TJW for operating pressures from 30 to 600 psig in standard sizes from 250,000 to 14,000,000 Btu/hr. Write for Bulletin 1000.

HEATING BOILERS—15 lb Steam—30 lb Water

TYPE C—built in SBI rated sizes from 2,190 to 51,000 sq ft steam. Can be equipped with an immersion coil of instantaneous or storage tank type for hot water service requirements. Write for Bulletin 800.

TYPE IDL & BBL Boiler-Burner Units are built in capacities from 1,820 to 84,000 sq ft steam. Write for Bulletins 600 and 900.

HIGH PRESSURE BOILERS—130—160—200 psig

TYPE CH Of all welded construction these boilers are available in standard sizes from 8 to 363 hp—oil, gas or coal fired. Write for Bulletin 1600.

TYPE IDH & BBH Boiler-Burner Units, including water tube boiler, steel base and induced draft fan, are shipped as a unit ready for installation of oil and/or gas burner and controls at job site. Built in standard sizes ranging from 12 to 600 hp. Write for Bulletins 400 and 900.

INTERNATIONAL-LAMONT



HIGH TEMPERATURE WATER GENERATORS

Discharge Temperatures to 430 F. Design Pressures to 600 psig.

BUILT-IN ECONOMIZER permits safe use of temperature differentials to 200 F with no thermal shock. LOW HEAD-ROOM reduces cost of new boiler house construction and permits installation in many existing structures. TYPE LFW available in standard sizes from 3 to 200 million Btu/hr. Completely packaged oil/gas fired units to 60 million Btu/hr. Write for Bulletin 700.

THERMAL LIQUID HEATERS

Safe, low pressure industrial process heat to 750° F. plus temperature control to ±2 F. Ideal for use with Arcolor, Dowtherm, Mobitherm and other thermal liquids.

TYPE TJH and LPH available in standard sizes from 150,000 to 50 million Btu/hr. Completely packaged units in sizes to 20 million Btu/hr. Write for Bulletin 1500.



See Your Local INTERNATIONAL DISTRICT REPRESENTATIVE or write for Bulletins above