Cyclotherm Division

United States Radiator Corporation

Sales and Executive Offices

Oswego, New York

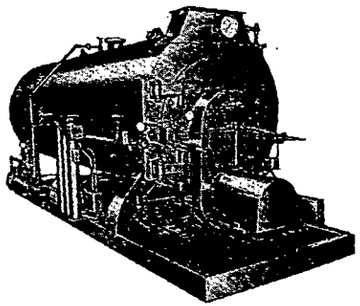
Factory Distributors throughout the United States

CYCLOTHERM STEAM AND HOT WATER GENERATORS

Operate on Cyclonic Combustion principle. Completely automatic with full safety controls. Oil, gas or interchangeable gas and oil firing. Only four connections required.

The Cyclonic Combustion operating principle causes the fuel to be burned while spiraling at high velocity around the inside wall of the combustion chamber, forming virtually a tube of flame. This provides uniform and highly efficient heat transfer over the entire furnace wall without hot spots. Complete utilization of heat transfer areas provides quick heat as well as greater than 80 per cent efficiency with the reduced maintenance of a two-pass design.

18 to 80 hp models are equipped with "on-off" control; 100 to 500 hp models have modulated control. 80 hp units with modulating controls furnished at customers request. Automatic combustion safeguard, low water and other safety controls are included.



Sizes from 18 to 500 hp

Pressure Range

Available in standard low pressure units or high pressures up to 200 psi. Hot water generators are also available in all sizes.

Standard Burner Arrangements

Fuel	Cyclotherm Model No.
Light Oil, 1 to 3	C-600 thru C-17,500
Gas, mfd., mixed and natural	C-600 thru C-17,500
Comb. lt. oil and gas	C-600 thru C-17,500
Heavy Oil, 5, 6 and Bunker C	C-2800 thru C-17,500
Comb. hy. oil and gas	C-2800 thru C-17,500

STANDARD RATINGS AND DIMENSIONS

Model No.	Max. HP Rating	Output BTU Per Hr	Steam Units		Hot Water Units		Overall Dimensions (Inches)		
			Steam Per Hr. (Pounds)	Equivalent Direct Radiation (Sq Ft)	Gallons Per Hr (100°Rise)	Equivalent Direct Radiation (Sq Ft)	Length	Height	Width
C-600	18	603,000	620	2,500	743	4,005	71	44½	36
C-1000	30	1,005,000	1,035	4,185	1,240	6,700	80½	55	45
C-1400	40	1,340,000	1,380	5,580	1,655	8,930	110½	55	45
C-1725	50	1,675,000	1,725	6,980	2,070	11,165	80	57½	47
C-2100	60	2,010,000	2,070	8,375	2,480	13,400	124	64½	51
C-2800	80	2,680,000	2,760	11,165	3,305	17,865	152	66½	55
C-3500	100	3,350,000	3,450	13,955	4,135	22,330	162	73½	64
C-4400	125	4,187,500	4,315	17,445	5,170	27,915	173½	84½	68½
C-5200	150	5,025,000	5,175	20,935	6,205	33,500	197½	91½	75
C-7000	200	6,700,000	6,900	27,915	8,270	44,665	224½	98½	81
C-8700	250	8,375,000	8,625	34,882	10,337	55,782	251½	98½	88
C-10500	300	10,050,000	10,350	41,875	12,405	66,900	252	102½	88
C-12000	350	11,725,000	12,075	48,850	14,475	78,115	252	102½	88
C-13800	400	13,400,000	13,800	55,850	16,540	89,330	252	102½	88
C-17500	500	16,750,000	17,250	69,764	20,674	111,564	294	102½	88

Vapor Heating Corporation

80 East Jackson Blvd., Chicago 4, Illinois

New York • St. Paul • Denver • St. Louis • Atlanta • Washington • Montreal • Philadelphia • San Francisco • Richmond • Los Angeles

VAPOR MODULĀTIC STEAM GENERATORS

100-hp size takes no more room than your watchman's cot!

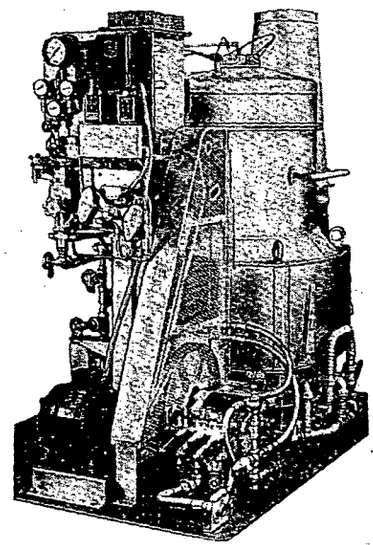
Vapor Modulātic—a complete line of low- or high-pressure industrial boilers so compact that 100-hp takes less than 8 ft x 5 ft of floor space. All seven models are about ⅕ the size of conventional boilers of same rating.

For power, processing, heating

Modulātic installs anywhere—basement, factory floor, balcony, roof, in spare boiler room space. Can be located right where steam is used, to save piping costs and line losses. Passes complete through ordinary plant-type door ways. Operating pressures from 5 to 285 psi. Light in weight. Comes fully insulated. Needs no enclosure, no special foundation. Requires only a simple venting stack. Operation is clean and quiet. Gas or oil firing. 2-second change-over combination burner available.

Saves time, saves fuel

Full modulating automatic controls are built in, factory-tested under actual job conditions. Fuel, feedwater, and forced draft accurately proportioned to each other. Set the pressure you want—Modulātic supplies the demand. Full pressure in just 2 minutes from a cold start; no early reporting, no week-end standby. Coordinated controls for multiple installations. Modulātic gives you steam where you want it, when you want it, as easily as turning on a light.



Over 6000 in use

Modulātic has a proved record of dependability and economy—more than 22 years in the tough, demanding service of supplying car-heating steam from Diesel locomotives. And the first one built is still in regular operation!

Write for catalog

New Bulletin 586 tells how Modulātic is saving space, time and money for users in all fields of industry. Write for your copy.

Model Number	*Horsepower*	*Lbs Steam per hour (from and at 212 deg F.)*	*Dimensions (Inches)*			*Approx. Shipping Weight (Lbs)*
			Length	*Width*	*Height*	
4605	18	620	50	41	48	900
4611	40	1380	64	52	60	3300
4617	65	2240	84	48	70	3500
4626	100	3450	87	60	73	4900
4631	120	4140	96	60	80	5300
4636	135	4660	96	60	80	5400
4741	160	5520	96	60	82	6500