

Cyclotherm Division

United States Radiator Corporation

Sales and Executive Offices

Oswego, New York

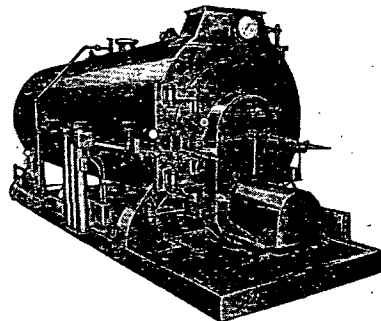
Factory Distributors throughout the United States

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.

15 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
Heavy Oil, 5, 6 and Bunker C	C-2800 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
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	600,000	600	2,500	743	4,005	71	44	27
C-1000	30	1,005,000	1,035	4,185	1,240	6,700	90	54	41
C-1400	40	1,340,000	1,380	5,580	1,655	8,650	110	54	41
C-2100	60	2,010,000	2,070	8,375	2,480	13,400	124	63	45
C-2800	80	2,680,000	2,760	11,165	3,305	17,865	152	66	55
C-3500	100	3,350,000	3,450	13,955	4,135	22,330	162	73	64
C-4400	125	4,187,500	4,315	17,445	5,170	27,915	173	84	68
C-5200	150	5,025,000	5,175	20,935	6,205	33,500	197	91	75
C-7000	200	6,700,000	6,900	27,915	8,270	44,665	224	98	81
C-8700	250	8,375,000	8,625	34,822	10,337	55,782	251	98	81
C-10500	300	10,050,000	10,350	41,875	12,405	66,900	252	102	88
C-12000	350	11,725,000	12,075	48,850	14,475	78,115	252	102	88
C-13500	400	13,400,000	13,800	55,850	16,540	89,330	252	102	88
C-17500	500	16,750,000	17,250	69,764	20,674	111,564	264	102	88

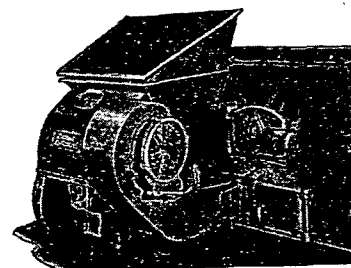
DETROIT
SINCE 1898
STOKERS

DETROIT STOKER COMPANY

General Motors Building - Detroit, Michigan

Detroit LoStoker (Underfeed type)

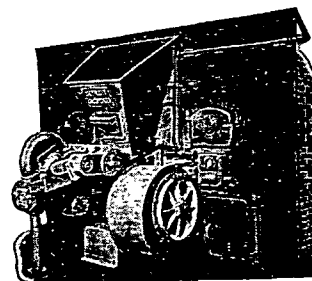
Compact firing unit—single retort—mechanically driven—plunger feed—side cleaning stoker. Sizes and capacity for all heating boilers, from 50 to 150 horsepower rated capacity. Now available with Detroit Adjustable Feed—provides automatic control of coal and air. Efficient and dependable.



Detroit LoStoker—a great coal saver. Easily installed. Thousands in operation.

Detroit UniStoker (Underfeed type)

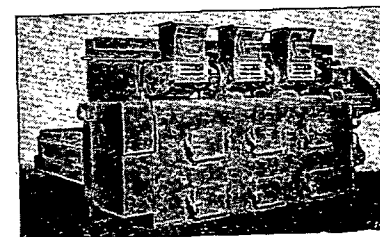
Plunger feed, side cleaning, compact unit type. For boilers of 125 to 250 hp rated capacity. Detroit Adjustable Feed keeps air supply in ratio to coal feed. May be motor or steam turbine driven, automatically controlled. Readily installed with existing boilers.



Detroit UniStoker with Adjustable Feed provides a wide range of coal feed control.

Detroit RotoStoker (Spreader type)

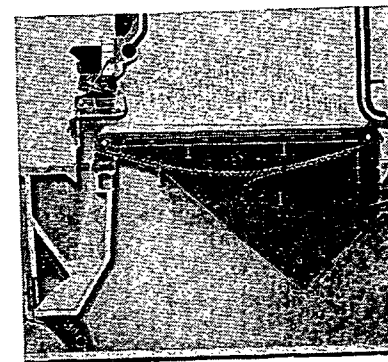
Built with stationary, hand or power dumping grates or continuous cleaning grates. Wide range of sizes. Burns all bituminous coals without special preparation, but with high thermal efficiency. Responsive to fluctuating loads.



Detroit RotoStoker (CC) is a new type with continuous ash discharge at the front. For steaming capacities approximately 5,000 to 75,000 lbs. Smoke-free operation at light loads.

Detroit RotoGrate (Large spreader type)

For medium and large heating and power boilers up to 400,000 lbs steam per hour. Forward moving grates continuously and automatically discharge ash at the front. Combustion loss to ash usually less than 2 per cent.



Detroit RotoGrate Stoker burns all grades of coal. Permits higher burning rates. Responds quickly to changes in load.