

Economy Pumping Machinery Co.

General Sales Offices

3431 West 48th Place, Chicago, Ill.

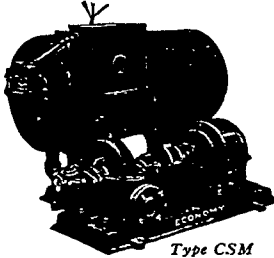
DISTRICT SALES OFFICES

AMSTERDAM, N.Y., 447 Guy Park Avenue
BALTIMORE, MD., 522 Park Avenue
BOSTON, MASS., 141 Milk Street
DETROIT, MICH., 517 E. Larned Street
GRAND RAPIDS, MICH., 301 Peninsular Building
MIAMI, FLA., 938 N.E., First Avenue
NEW ORLEANS, LA., 901 Carondelet Street
WICHITA, KANS., 1100 E. Douglas Avenue

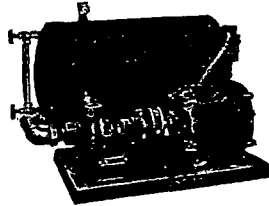
NEW YORK CITY, 39 Cortlandt Street
OKLAHOMA CITY, OKLA., 710 Hudson Street
PHILADELPHIA, PA., Bourse Building
PITTSBURGH, PA., Fulton Building
ST. LOUIS, MO., 2741 Washington Boulevard
ST. PAUL, MINN., 308 Metropolitan Building
SAN FRANCISCO, CALIF., Monadnock Building

Economy Pumps

Economy Pumps and Receivers



Type CSM



Type CSS

Economy pumps and receivers are made in a variety of types for every pressure and capacity conditions. The present line is the result of a long study and improvement by this Company which was one of the pioneers in the manufacture of Electric pumps and receivers.

The use of these pumps to improve circulation with a reduction in boiler pressure usually results in large fuel economies. The savings are particularly striking in the case of medium pressure plants where it is desired to work at low pressure during dull periods of the day.

The table below gives a partial list of sizes which are available in either solid shell or horizontally split case designs. Complete specifications and descriptions will be found in Bulletin No. 405.

All Economy pumps are substantially mounted on cast iron bases with machined pads. Either cast iron or steel receivers are used. The automatic control is assembled as a unit and is easily accessible for inspection at all times. The most important features of individual standard designs are given below.

Type CSS—A single suction solid shell unit with oil-less stand bearing and outboard ring oiling or radial ball bearing. The most popular of all Economy pumps and receivers; a thoroughly dependable unit at a moderate price.

Type CSM—A double suction horizontal split case unit with enclosed bronze impeller with ring oiling bearings. This unit has been designed for use where the service is unusually severe as where equipment of the highest grade is desired.

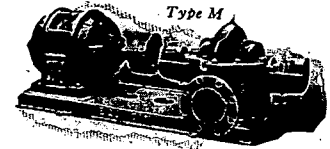
Type CST—Multi-Stage Pumps for pressures above 40 lb. They are bronze fitted with ring oiling bearing at the driving end and radial ball bearing at the outboard end.

No. of Unit	Capacity in Sq. Ft. Direct C. I. Radiation	Pump Capacity G.p.m.	Receiver Capacity Gals.	Motor Horsepower				
				10 lb.	15 lb.	25 lb.	60 lb.	100 lb.
6	2000	7 1/2	13	1/4	...	...	...	...
6 1/2	3500	12	16	1/2	...	...	...	...
7	5000	15	20	3/4	1 1/2	3	5	...
7 1/2	7500	20	26	1	1 1/2	3	5	...
8	10,000	25	33	1 1/4	2	3	5	...
8 1/2	15,000	37	41	1 3/4	2	3	5	...
9	25,000	60	49	2	3	5	10	...
9 1/2	35,000	80	57	2 1/2	3	5	10	...
10	50,000	110	82	3	5	10	15	...

Economy Pumping Machinery Co.

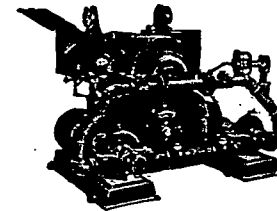
Economy Double Suction Pump

Economy Double Suction Single Stage Pumps, for hot water circulation, brine circulation, water supply, etc., are made in a complete range of capacities up to 3500 g.p.m. They embody the newest hydraulic developments which give them an unusually high efficiency over a broad range. The mechanical design is rugged and simple so that reliable performances and long life is assured. A head capacity table is given in Bulletin No. 408.



Type M

Economy Centrifugal Return Line Vacuum and Boiler Feed Pumps



Type 2254

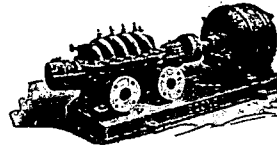
Duplex Units consisting of single tank, two pumps, motors and control can be furnished in any size. A test with calibrated orifices is made on each unit before shipment.

Standard Pumps are designed for operation against 20 lb. pressure but reasonably prompt delivery can be made on units for discharge pressures up to 150 lb.

Economy Vacuum Pumps have been designed for the rapid removal of air and water from heating systems and discharge of the water to the boiler. They are made in a wide range of sizes, a partial list of which is given below:
Bronze Fitted Pumps, Air Eliminator, Vacuum Receiver and Automatic Control are standard equipment. Sizes over 5000 sq. ft. capacity are of a double suction horizontal split case construction. Standard units are supplied with bronze suction strainer and scale pocket. Entire apparatus is shipped completely assembled and wired in accordance with National Electric Code.

Economy Centrifugal Vacuum Pump

Unit No.	Capacity in Sq. Ft. Direct C. I. Radiation	Motor Horse Power	Cubic Feet Air per Min.	Size Discharge to Boiler	Size Return Inlet	Shipping Weight
CV-1	2,500	3/4	1 1/4	1/4	1/2	650
CV-2	5,000	1	4	1	2	750
CV-3	8,000	1 1/2	6	1 1/4	2 1/2	900
CV-4	16,000	2	10	1 3/4	3	1,025
CV-5	20,000	3	15	1 3/4	3	1,150
CV-6	27,500	5	19	1 3/4	3 1/2	1,300
CV-7	40,000	5	24	1 3/4	4	1,550
CV-8	65,000	7 1/2	40	2	5	1,800
CV-9	100,000	10	60	2 1/2	6	3,100
CV-10	150,000	15	90	2 1/2	6	...



Type EMF

Economy Multi-Stage Pumps

Made in the horizontal split type in sizes 2 1/4 and larger, smaller sizes are vertically split. In these pumps the head per stage has been limited to a figure at which high efficiency and long life is obtained. Distinctive features of Economy Horizontally Split design are solid one piece bronze diaphragms, the volute in every stage and the hydraulic balancing device. The table shows maximum head at 1750 r.p.m. Higher pressures are obtained with 3600 revolution units. Specifications are given in Bulletin No. 406.

Multi-Stage Pumps for High Pressure House Supply Boiler Feeding, Etc.

Capacity, gallons per minute.....	25	50	100	160	250	350
Pump number.....	1	1 1/2	2 1/2	2 1/2	3	3
Horsepower for each 100 ft. head.....	2.5	3.75	5.5	7.0	11.0	17.0
Maximum head at 1750 r.p.m.....	300	400	600	750	750	550

Economy Underground Pumps and Receivers—Type CU

Underground pumps and receivers are designed for use where radiation is placed on the floor with returns underground or in any other places where it would otherwise be necessary to install horizontal pumps in a pit.

The underground pump consists of special vertical pump which is bronze fitted and controlled by a special mechanism which prevents binding and sucking of float rod. Lower bearing is of the oil-less type which has given such excellent service in these pumps for the last twelve years.

When necessary to use an underground pump on high pressure jobs we recommend the use of a low pressure underground pump discharging into the receiver of a high pressure horizontal pump. Our engineering department will be pleased to work out the details of such installations.

Type CU. Underground Pumps and Receivers

Capacity Sq. Ft.	Hp., 10 lb. Discharge Pressure	Motor Hp. 20 lb.	Pump Capacity G.p.m.	Receiver Capacity Inches	Disch. Size Inches	Capacity Sq. Ft.	Hp., 10 lb. Discharge Pressure	Motor Hp. 20 lb.	Pump Capacity G.p.m.	Receiver Capacity Inches	Disch. Size Inches
2000	1/4	3/4	7 1/2	24 x 30	1	10,000	1/2	1 1/2	25	24 x 36	1 1/2
3500	3/8	1	12	24 x 30	1	15,000	3/4	2	37	30 x 36	1 1/2
5000	1/2	1 1/4	15	24 x 30	1 1/4	25,000	1	2 1/2	60	30 x 48	2
7500	3/4	2	20	24 x 36	1 1/4	50,000	3	5	110	36 x 48	2 1/2



Type CU