

Economy Pumping Machinery Co.

General Sales Offices

3431 West 48th Place, Chicago, Ill.

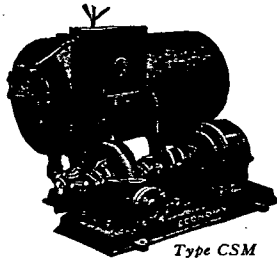
DISTRICT SALES OFFICES

BALTIMORE, MD., 522 Park Avenue
 BOSTON, MASS., 141 Milk Street
 BUFFALO, N.Y., Erie County Bank Building
 CHATTANOOGA, TENN., 401 Chattanooga Bank Bldg.
 CINCINNATI, OHIO, 309 Main Street
 DETROIT, MICH., 517 E. Larned Street
 FORT WAYNE, IND., 2252 Columbia Street
 INDIANAPOLIS, IND., 601 State Life Building
 JACKSONVILLE, FLA., 660 College Street
 KANSAS CITY, MO., 2020 Walnut Street
 LOS ANGELES, CALIF., 215 W. Seventh Street
 LOUISVILLE, KY., 305 Louisville Trust Building
 SAN FRANCISCO, CALIF., Monadnock Building

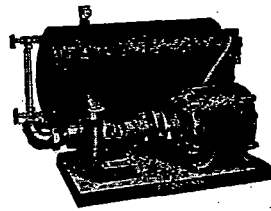
MONTREAL P.Q., CANADA, 1072 Beaver Hall Hill
 MIAMI, FLA., 113 N.E. Third Street
 NEW ORLEANS, LA., 901 Carondelet Street
 NEW YORK CITY, 39 Cortlandt Street
 NEW YORK CENTRAL, 25 Wallace Ave., Scotia, N.Y.
 OKLAHOMA CITY, OKLA., 710 N. Hudson Street
 PHILADELPHIA, PA., Bourse Building
 PITTSBURGH, PA., Fulton Building
 PORTLAND, ORE., 201 Worcester Building
 ROCHESTER, N.Y., 306 Laburnum Crescent
 ST. LOUIS, MO., 321 So. Grand Boulevard
 ST. PAUL, MINN., 308 Metropolitan Building

Economy Pumps

Economy Pumps and Receivers



Type CSM



Type CSS

Economy pumps and receivers are made in a variety of sizes and types for every pressure and capacity condition. 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	3/4	...	...	...	...
7	5000	15	20	1 1/2	...	...	...	...
7 1/2	7500	20	26	2 1/2	...	...	...	...
8	10,000	25	33	3 1/2	...	...	...	...
8 1/2	15,000	37	41	5	...	...	...	...
9	25,000	60	49	7 1/2	...	...	...	...
9 1/2	35,000	80	57	10	...	...	...	...
10	50,000	110	82	15	...	...	...	...

Economy Pumping Machinery Co.

Economy Underground Pumps and Receivers Type CU

Underground pumps and receivers are used where returns are so low that a pit would be required for a horizontal pump.

The underground unit consists of a special vertical bronze fitted pump having renewable bearings throughout and a cast iron receiver which is permanently resistant to corrosion and special type of float mechanism is used with swivel type stuffing box.

When necessary to use an underground pump on high pressure job the standard low pressure unit may be used discharging into the receiver of a high pressure horizontal pump. Our engineering department will be pleased to work out details of such installations. See Bulletin No. 405.



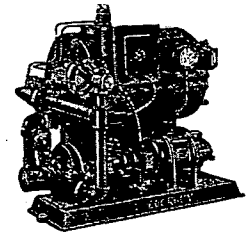
Type CU

Type CU. Underground Pumps and Receivers

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

Improved Economy Centrifugal Return Line Vacuum Pump

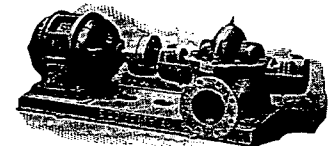
The improved Economy Vacuum heating pump is equipped with horizontal split case centrifugal pumps in sizes over 5000 ft. (smaller sizes are equipped with bronze fitted solid shell pumps). All parts of the pump are accessible without breaking pipe connections or dismantling the unit. The float control is located close to the floor so that a close water line may be maintained when operating as a gravity system. The boiler feed arrangement is positive and simple. The entire apparatus is shipped completely assembled and wired in accordance with the National Electric Code. In addition to the single pump duplex units are furnished which consist of single tank, two pumps and motors. Tests with calibrated orifices are made on all pumps before shipment. Standard pumps are designed for operation against 20 lb. pressure but reasonably prompt delivery can be made on units for discharge pressure up to 150 lb. See Bulletin No. 409.



Type 2234

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 1/2	650
CV-2	5,000	1	4	1/2	2	750
CV-3	8,000	1 1/2	6	1	2 1/2	900
CV-4	16,000	2	10	1 1/4	3	1,025
CV-5	20,000	3	15	1 1/4	3	1,150
CV-6	27,500	5	19	1 1/2	3 1/2	1,300
CV-7	40,000	5	24	1 1/2	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	4,000



Type M

Economy Double Suction Centrifugal Pump

Economy Multi-Stage Pumps

Made in the horizontal-split type in sizes 2 1/2 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.

Economy general service single stage centrifugals are made in a complete range of capacities up to 3500 G.P.M. They are widely used for general water supply, hot water circulation, brine circulation, air washing service, etc. They embody the newest hydraulic developments which give them an unusually high efficiency over a broad range. The mechanical design is simple and rugged. Description and complete table is given in Bulletin No. 408.

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

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

Type EMF

