The Nash Engineering Company

Plant and General Offices

South Norwalk, Conn., U. S. A.

Sales Offices

Atlanta	152 Nassau Street, N.W.	Montreal	417 New Birks Bldg.
Birmingham	2224 Comer Bldg.	New Orleans	344 Camp Street
Boston	25 Huntington Avenue	New York, N. Y.	Graybar Bldg.
Buffalo	317 Chamber of Commerce	Oklahoma City, Okla.	1217 West 44th Street
Butte, Montana	910 Arizona Street	Omaha	Baum Bldg.
Chattanooga	1104 James Bldg.	Philadelphia	254 South 15th Street
Chicago	925 Monadnock Block	Pittsburgh	1430 Oliver Bldg.
Cleveland	1600 Union Trust Bldg.	Portland, Ore.	224 Pine Street
Dallas	1020 Mercantile Bank Bldg.	Richmond	301 American National Bank Bldg.
Denver	1226 California Street	St. Louis	4200 Forest Park Blvd.
Detroit	Kerr Bldg.	San Antonio, Tex.	412 Builders Exchange Bldg.
Indianapolis	937 Architects & Builders Bldg.	Salt Lake City, Utah	Dooly Bldg.
Kansas City, Mo.	314 W. Tenth Street	San Francisco	Sharon Bldg.
Los Angeles	1224 S. San Pedro Street	Seattle	518 Fourth Avenue
Louisville	901 Realty Bldg.	Toronto	90 Chestnut Street
Memphis	1714 Exchange Bldg.	Vancouver	410 Homer Street
Miami	113 N.E. Third Street	Washington, D. C.	Barr Bldg.
Minneapolis	808 La Salle Avenue	Wichita, Kan.	808 Brown Bldg.

Return line and air line vacuum heating pumps. Condensation pumps. Standard and suction centrifugal pumps.

House service pumps. Sewage ejectors. Sump pumps. Compressors and vacuum pumps for air and gases.

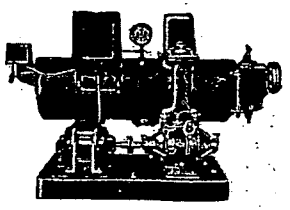
Return Line Vacuum Heating Pump

Removes air and condensation from the return line of vacuum steam heating systems; discharges the air to the atmosphere and returns the water to the boiler.

Two independent units are combined in a single casing—an air unit and a water unit. Impellers of both are mounted on the same shaft. The pump is bronze fitted throughout.

The air unit exhausts air and vapors and delivers these to the atmosphere without back pressure. The water unit removes condensation and pumps it directly into the boiler. Horsepower is saved, with a proportionate reduction in cost of current.

Supplied either direct connected to standard electric motors, for belt drive, or for steam turbine drive. For continuous or automatic operation against pressures up to 40 lb.



Jennings Motor-driven Return Line Vacuum Heating Pump

Capacities of Jennings Vacuum Heating Pumps

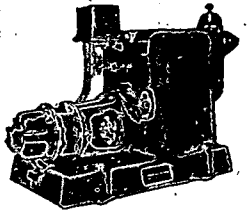
Pump Size	Equiv. Direct Rad. Sq. Ft.	Water Capacity G.P.M.	Air Capacity Cu. Ft. per	MOTOR H. P. 10 lb.	20 lb.	30 lb.	40 lb.
T	2500	4	3	½	½	1	1½
U	5000	9	3	½	½	1	1½
V	10,000	14	6	1	1	1½	2
B	16,000	22	9	1½	2	3	5
C	26,000	35	15	2	3	5	5
D	40,000	60	19	3	5	5	7½
E	65,000	90	34	5	5	7½	10
F	100,000	140	50	7½	10	15	15
*G	150,000	200	102	10	15	upon request	
*H	300,000	400	171	....	upon request		

*The last two sizes are not of the manifold type.

Condensation Pump and Receiver

Removes condensation from radiators in return-line steam heating systems and pumps condensation back to the boiler.

Compactness is secured by making the pump casing a part of the return tank, and bolting the motor base to the tank. The pump can be installed in a corner against the wall.

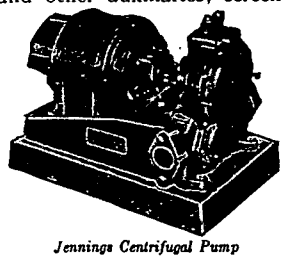


Jennings Motor-driven Condensation Pump

Jennings condensation pumps are furnished in standard sizes with capacities ranging from 4 to 22 g.p.m. of water. For serving up to 150,000 sq. ft. equivalent direct radiation.

Centrifugal Pump

For circulating hot and cold water; boosting city water pressure; handling water in air washing and conditioning; removing condensate from heating systems, blow-down from soot blowers and superheaters; exhaust drips from steam ejector air pumps and other auxiliaries; screen wash water, oil engine jacket water, ash sluicing water.



Jennings Centrifugal Pump

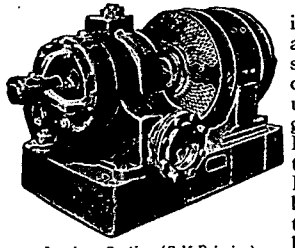
Compact—motor armature and pump impeller are mounted on the same shaft. Simplicity—no bearings in pump casing, only one stuffing box. Accessible—pump impeller can be removed without breaking pipe connections, touching packing, or disturbing shaft alignment.

Supplied in 1¼, 1½, 2, 3, 4 and 6 in. sizes for handling up to 1200 g.p.m. Heads up to 250 ft. Bronze fitted pump is standard construction. Also furnished in all-bronze or all-iron for special service.

Centrifugal Pump Operating With Suction Lift

When the Jennings Suction Centrifugal is started, the built-in Nash Hytor Vacuum Pump exhausts the air from the casing and suction piping. Water is quickly drawn into the pump. Full rated capacity is delivered without delay.

Successful performance is assured under conditions where water level is likely to fall. Intermittent operation is possible without the need for a foot valve.

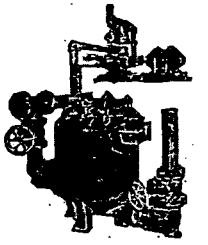


Jennings Suction (Self-Priming) Centrifugal Pump

Furnished in 2, 3, 4 and 6 in. sizes for capacities up to 1200 g. p. m. Heads up to 100 ft. Either bronze fitted or all bronze construction.

Sewage Ejector

For pumping unscreened sewage or drainage from basements below the street sewer level; handling crude sewage from low level districts; pumping effluent, sludge and other heavy liquids.



Jennings Sewage Ejector

The Jennings Sewage Ejector is of the pneumatic type. A Nash Hytor Compressor is used as the motive power to pump the accumulated sewage from a pot to the sewer.

Air is compressed, delivered, and used *only when* required. There are no air storage tanks, reciprocating air compressors, or screens. Air valves are avoided.

Furnished in standard sizes for handling from 30 to 1500 g.p.m. Heads up to 50 ft.

Compressors and Vacuum Pumps for Air and Gases

The rotor, consisting of a cylindrical hub around the periphery of which are chambers formed by heavy shrouds cast integrally, revolves in an elliptical casing filled with water.

As the rotor turns, it carries the water with it. The water under the influence of centrifugal force, follows the contour of the casing, and alternately enters and leaves the rotor chambers.



Sectional View of the Nash Hytor Compressor or Vacuum Pump, Showing the Unique Principle of Hydro-Turbine Operation

As the water recedes from the rotor, air is drawn into the chambers through the inlet port. As the water is forced back into the rotor, the air is compressed and then discharged through the outlet port.

A separator frees the compressed air of entrained moisture.

Supplied in standard sizes for handling up to 5000 cu. ft. of free air per minute. For discharge pressures up to 20 lb.; vacuums up to 20 in. of mercury column. Cast iron standard construction. Bronze fitted, solid bronze and other alloys furnished special.

Bulletins

No. 10. Nash Hytor Compressors.
No. 11. Mash Hytor Vacuum Pumps.
No. 52. Jennings Standard Centrifugal Pumps.
No. 85. Jennings Return-Line Vacuum Heating Pumps, manifold type.
No. 87. Jennings Vacuum Heating Pumps, unit manifold type.
No. 97. Jennings Suction Sump Pumps.
No. 99. Jennings Condensation Pumps.
No. 103. Jennings Sewage Ejectors, Type B.
No. 108. Jennings Sewage Ejectors, Type A.