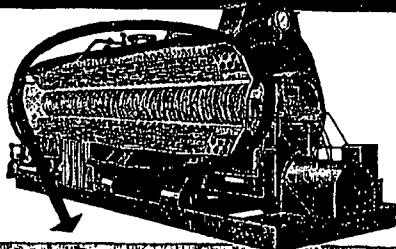


THE BIG DIFFERENCE IN PACKAGE BOILERS



**CYCLOTHERM CYCLONIC
COMBUSTION gives you
66% MORE POWER**
per sq. ft. of heating surface

The cyclonic action of the flame revolves evenly in a free spiraling vortex the full length of the furnace and provides an even rate of heat transfer throughout the entire length of the combustion chamber.

This controlled combustion reduces heating surface requirements from 5 to just 3 sq. ft. per B. H. P. giving 66% more power.

Plus These Important Features

- Saves up to 1/3 the Space of Conventional Package Units
- Guaranteed 80% Minimum Efficiency
- No Hot Spots or Flame Impingements
- Burns Oil, Gas or Both
- Savings up to 50% on Maintenance
- No Expensive Stacks or Foundations to Build
- Greater Fuel Savings

And That's Not All . . .

Cyclotherm Steam Generators with patented Cyclotherm Cyclonic Combustion gives you: Full power operation from a cold start in 15 to 20 minutes; Built in accordance with A.S.M.E. and Nat'l. Board Standards and bears the label of Underwriters Laboratories Inc.; Complete range of sizes from 18 to 500 h.p., 15 to 200 psi operation pressure.

WRITE TODAY for your copy of "All Your Questions Are Answered by Cyclotherm" and find out why Cyclotherm Steam Generators have

been proven superior in thousands of installations. Just drop a post card to Cyclotherm, Dept. 24, Oswego, New York.



**CYCLOTHERM
STEAM GENERATORS**

More EQUIPMENT NEWS

Test for Boiler Water Solids

725 • Simple "dropper test" for boiler water solids can be made in two minutes gives results reproducible to 200 ppm. dissolved solids. A more precise "burette test" requires about three minutes and gives results reproducible to within 25 to 50 ppm. Essentially the test involves mixing a sample with a strongly alkaline anion exchange resin, and titrating a portion of the resulting solution with acid to the proper endpoint. Volume of standard acid required for the titration, multiplied by suitable factor, gives an accurate measure of dissolved solids in the sample. Hagen Corp., P O Box 1346, Pittsburgh 30, Pa.



Spray-Type Foam Maker

702 • New foam maker is designed for overhead protection of medium-sized petroleum and chemical hazards. Cone-shaped spray head discharges an even pattern over a wide area. Device is designed for use in fixed systems, singly or in multiple, indoors or out. Coverage ranges from 10 to 20 ft in diameter, depending on operating pressure, which can vary from 30 to 100 psi. Unit is about 15 in. long, 2 1/2 in. diameter.

Two capacities available: 22 and 33 gpm at 30 psi.

Pyrene Mfg Co, 560 Holmont Ave, Newark 8, N. J.

For more data on these items, use post card p. 165. Identify your request with item number.

Portable Vacuum Tester

757 • New vacuum pump trucks can be used for vacuum processing or to test pipelines, vacuum and storage chambers, handling 2000 and 4000 cfm between 1 and 100 microns absolute pressure. The 2000 cfm model, 147-E-10, consists of Microvac pump, diffusion pump, high vacuum valve, 14-in. hermetically sealed refrigeration unit with baffled cold trap coil. All auxiliary piping

This 7-Letter Word Tells the Story

• There are many descriptive words and phrases we might use to prove the effectiveness of Zallee Stainless Steel Expansion Joints as the ideal medium to absorb thermal expansion and contraction in pipelines. But no single word has more convincing meaning . . . more significance than the simple 7-letter word . . . "reorder."

Over the past 23 years, thousands of industrial organizations have expressed their confidence in our products by reordering not once, but time and time again!

Here's a sample of the record:

Company	Number of Orders Placed	Since
American Viscose Corp.	70	1940
Bethlehem Steel Corp.	81	1935
Carbide & Carbon Chemical Co.	93	1936
Consolidated Edison Co.	115	1933
Dravo Corporation	85	1939
E. I. du Pont de Nemours & Co. (Inc.)	300	1934
Gibbsco Service	40	1936
Hercules Powder Co.	13	1937
Koppers Co. (Inc.)	165	1942
Murphy Mfg. Co.	174	1942
Rock Oil Co.	60	1938
Texas Co.	261	1938

This acceptance is your assurance of the dependable, economical performance you'll receive when you, too, order and reorder Zallee Stainless Steel Expansion Joints. Why not write us today? Zallee Brothers, 814 Locust Street, Wilmington 99, Del.



Catalog 47 and Bulletin 351 describe the complete line of Zallee Expansion Joints and Flexible Connectors. Write for copies today.

Zallee
EXPANSION JOINTS

