

HAHN MECHANICAL SOOT BLOWERS for all types of FIRE TUBE BOILERS

Fixed nozzles centered to each tube. No cutting of tube-sheet. No moving parts in hot boiler. All tubes in boiler blown with four successive puffs of steam or air in about one minute. Minimum steam or air consumption. No hand-cleaning. Every tube swept clean at soot end and fly-ash end to END. No maintenance.

HAHN-PITZ CORPORATION

286 Scholes St. BROOKLYN 6, N. Y.

Hi-Test Kewanee

FOR POWER and PROCESS STEAM

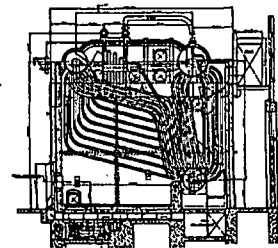
All-welded Portable with fire-box for refractory lining and fuel-conserving 3-pass tubes. A Q-U-I-E-Steamer. 6 atm. 50 to 150 H.P., 125 and 150 lbs. W.P.

80 Years Boilermakers

Write Dept. 12-K for 8" scale with pipe diameter markings.

Kewanee Boiler Corporation
BIRMINGHAM, ILLINOIS
Boilers • Engines • Pumps • Boilers • Pumps

WATER TUBE BOILERS • BENT TUBE TYPES •



50,000 pounds of steam per hour.

Based upon a firm foundation of practical experience, Bigelow offers the answer to your power requirements.



Catalog description of any type Bigelow Boiler will be sent on request.

THE BIGELOW COMPANY

17 RIVER STREET, NEW HAVEN 3, CONN.

WATER TUBE BOILERS
• SCOTCH TYPE BOILERS
• HORIZONTAL RETURN TUBULAR BOILERS
• ELECTRIC BOILERS
• TWO-PASS BOILERS

• Condenser Service & Supply Co., Inc., 25 River St., Hoboken, N. J.
• DeLaval Steam Turbine Co., 100 E. 11th St., New York 10, N. Y.
• Elliott Co., Jeannette, Pa.
• Enco Equip Co., 55 Hyatt Ave., New York 10, N. Y.
• Fairbanks, Morse & Co., Fairbanks-Morse Bldg., Chicago 5.
• Niagara Blower Co., 400 East 10th Ave., NYC 17, N. Y.
• Kewanee Blower Corp., 300 W. Mount St., Bensenville, Ill.
• Hurstvent, Div. Westinghouse Elec. Corp., Hyde Park, Boston
• Westinghouse Electric Corp., Braddock Ave., East Pittsburgh, Pa.

BLOWERS, SOOT

• Hayer Co., 4030 Chouteau Ave. St. Louis 10, Mo.
• Street Electric Mfg. Co., 5100 N. Ravenswood Ave., Chicago 40.
• Great Mfg. Co., 62 S. Division St., Buffalo 3, N. Y.
• Chelsea Fan & Blower Co., Inc., 1206 Grove St., Livingston 11, N. Y.
• Chesteron, A. W. Co., 8 Ashland St., Everett 40, Mass.
• Diamond Power Specialty Corp., 1040 Oakland Ave., Detroit 11.
• Hahn-Pitz Corp., 286 Scholes St., Brooklyn 6, N. Y.
• Marion Machine Foundry & Supply Co., Marion, Ind.
• Niagara Blower Co., 400 East 10th Ave., New York 17, N. Y.
• Sullivan Inc., 3023 N. Elston Ave., Chicago 30, Ill.
• Vulcan Soot Blower Corp., 241-243 Dock St., Duquesne, Pa.

BOARDS, ASBESTOS

• Armstrong Cork Co., Liberty St., Lancaster, Pa.
• Carey, Philip Mfg. Co., Lockland, Cincinnati 19, Ohio
• Ebert Magnesia Mfg. Co., Valley Forge, Pa.
• Johns-Manville, 22 S. 40th St., New York 18, N. Y.
• Knauf & Mattison Co., Butler Ave., Ambler, Pa.
• Plant Rubber & Asbestos Wks., 137 Broadway St., San Francisco
• Rubenoid Co., 600 Fifth Ave., New York 18, N. Y.

BOARDS, CORK

• Armstrong Cork Co., Liberty St., Lancaster, Pa.
• Ebert Magnesia Mfg. Co., Valley Forge, Pa.

BOARDS, GAGE

• Foxboro Co., 68 Neponset Ave., Foxboro, Mass.
• Looper, J. M. Co., 211 Race St., Phila. 4, Pa.
• Taylor Instrument Cos., 85 Ames St., Rochester 1, N. Y.
• Treadwell M. H. Co. Inc., 140 Cedar St., New York 10, N. Y.

BOARDS, MINERAL WOOL

• Armstrong Cork Co., Liberty St., Lancaster, Pa.
• Ebert Magnesia Mfg. Co., Valley Forge, Pa.
• Refractory & Insulation Corp., 120 Wall St., New York 5, N. Y.

BOILER COMPOUNDS (See Water Treatment)

• Bigelow Co., Lloyd & River Sts., New Haven 14, Conn.
• Brown Roverl Corp., 19 Recter St., New York 6, N. Y.
• Combustion Engrs. Co. Inc., 300 Madison St., New York 17, N. Y.
• General Electric Co., 1 River Rd., Schenectady 6, N. Y.
• High Electric Heating Co. West & Clinton, Camden, N. J.
• Livingston Engrs. Co., 120 Milk St., Boston 5, Mass.
• Super Mold Corp. of Calif., 402 N. Sacramento St., Los Angeles, Calif.

BOILERS, ENGINE-EXHAUST, WASTE-HEAT

• Babcock & Wilcox Co., 25 Liberty St., New York 6, N. Y.
• Combustion Engrs. Co. Inc., 300 Madison Ave., New York 17, N. Y.

For additional information about products of many manufacturers

• Condenser Service & Supply Co., Inc., 25 River St., Hoboken, N. J.
• Davis Engrs. Corp., 100 S. Grand St., New York 10, N. Y.
• Foster Wheeler Corp., 100 Broadway, New York 6, N. Y.
• Maxon Blower Co., 100 Broadway, New York 6, N. Y.
• Ave. Hartford, 100 Broadway, New York 6, N. Y.
• Murray Iron Wks. Co., 1100 Washington St., Burlington, Iowa
• Sims Co., 1402 S. 18th St., Erie, Pa.

BOILERS, FIRE-TUBE

• Alert Engrs. Products, 315 W. Woodbridge St., Detroit 21, Mich.
• American Coal Burner Corp., 12 1/2 Erie St., Chicago 11, Ill.
• Ames Iron Wks. Co., 220 N. Y. St., New York 10, N. Y.
• Biscione Co., Liberty & Green Sts., New Haven 14, Conn.
• Brown, Wm. Bellor & Mfg. Co., 10th Ave. S. E., Minneapolis 14, Minn.
• Brywell Co., 206 N. Pindler St., Dayton 1, Ohio
• Cleaver-Brooks Co., 212 E. Keefe Ave., Milwaukee 12, Wis.
• Combustion Engrs. Co. Inc., 300 Madison Ave., New York 17, N. Y.
• Combustion Engrs. & Engrs. Co. Inc., 65 Elmer St., Hoboken 11, N. J.
• Cyclothurn Corp., 30 Broad St., New York 6, N. Y.
• Dutton, G. H. Co., Portage & Gibson Sts., Kalamazoo, Mich.
• Engrs. & Mfg. Co., 111 S. Main St., Rockford, Ill.
• Enco Equip Co., 55 Hyatt Ave., New York 10, N. Y.
• Erie City Iron Wks., 1422 East Ave., Erie, Pa.
• Farrar & Treffe Inc., 20 Milburn St., Buffalo 12, N. Y.
• Pittsburgh Boiler Co. Inc., 101 Park Ave., New York 17, N. Y.
• Godfrey-Keeley Co., 1 Hudson St., New York 14, N. Y.
• Bellman Boilers Wks., 122 Linden St., Allentown, Pa.
• International Boiler Wks. Co., 1 Birch St., East Stroudsburg, Pa.
• Johnston Bros., Perryburg, Mich.
• Kewanee Boiler Corp., Franklin St. & "Q" Tracks, Kewanee, Ill.
• Letell, James & Co., 426 East St., Springfield, Ohio
• Lookout Boiler & Mfg. Co. Manufacturers Rd. & Compress St., Chattanooga 1, Tenn.
• Orr & Scombower Inc., Reading, Pa.
• Milwaukee Bellman Boiler Wks., 724 N. 32nd St., Milwaukee 10, Wis.
• Mond Boilers, Inc., 1803 N. Indiana St., Los Angeles 23, Calif.
• Alvord Co., 1108 Washington St., Burlington, New York
• Stout, David, & Sons, 1010 Manchester, St. Louis 17, Mo.
• Struthers Wells Corp., Warren, Pa.
• Tilusville Iron Works Co., Div. Tilusville, Pa.
• Union Iron Works, 1426 Cascade St., Erie, Pa.
• Wickes Boiler Div., 812 N. Water St., Saginaw, Mich.

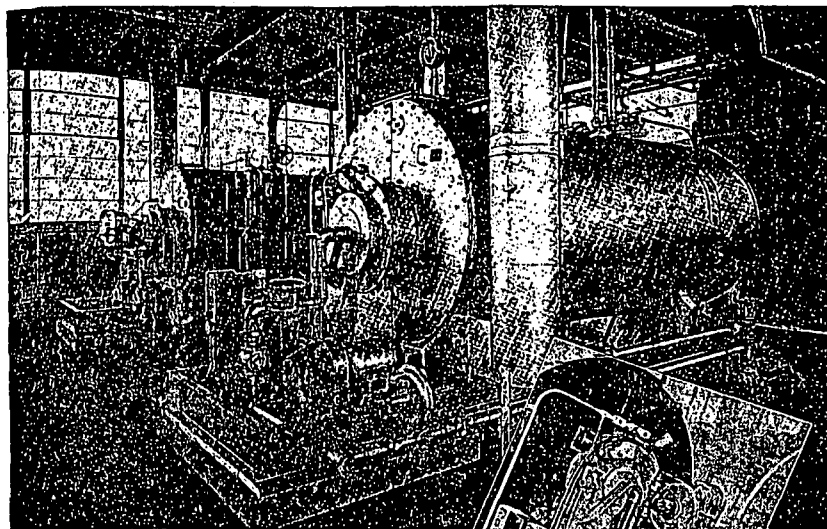
BOILERS, SELF-CONTAINED

• Alert Engrs. Products, 315 W. Woodbridge St., Detroit 21, Mich.
• American Coal Burner Corp., 12 1/2 Erie St., Chicago 11, Ill.
• Ames Iron Wks. Co., 220 N. Y. St., New York 10, N. Y.
• Benderson, John Phillips Inc., South Ave. & Reading R.R. Weymouth, Pa.
• Brown, Wm. Bellor & Mfg. Co., 10th Ave. S. E., Minneapolis 14, Minn.
• Brywell Co., 206 N. Pindler St., Dayton 1, Ohio
• Dutton, G. H. Co., Portage & Gibson Sts., Kalamazoo, Mich.
• Engrs. & Mfg. Co., 111 S. Main St., Rockford, Ill.
• Enco Equip Co., 55 Hyatt Ave., New York 10, N. Y.
• Erie City Iron Wks., 1422 East Ave., Erie, Pa.
• Farrar & Treffe Inc., 20 Milburn St., Buffalo 12, N. Y.
• Pittsburgh Boiler Co. Inc., 101 Park Ave., New York 17, N. Y.
• Godfrey-Keeley Co., 1 Hudson St., New York 14, N. Y.
• Bellman Boilers Wks., 122 Linden St., Allentown, Pa.
• International Boiler Wks. Co., 1 Birch St., East Stroudsburg, Pa.
• Johnston Bros., Perryburg, Mich.
• Kewanee Boiler Corp., Franklin St. & "Q" Tracks, Kewanee, Ill.
• Letell, James & Co., 426 East St., Springfield, Ohio
• Lookout Boiler & Mfg. Co. Manufacturers Rd. & Compress St., Chattanooga 1, Tenn.
• Orr & Scombower Inc., Reading, Pa.
• Milwaukee Bellman Boiler Wks., 724 N. 32nd St., Milwaukee 10, Wis.
• Mond Boilers, Inc., 1803 N. Indiana St., Los Angeles 23, Calif.
• Alvord Co., 1108 Washington St., Burlington, New York
• Stout, David, & Sons, 1010 Manchester, St. Louis 17, Mo.
• Struthers Wells Corp., Warren, Pa.
• Tilusville Iron Works Co., Div. Tilusville, Pa.
• Union Iron Works, 1426 Cascade St., Erie, Pa.
• Wickes Boiler Div., 812 N. Water St., Saginaw, Mich.

BOILERS, SELF-CONTAINED

• Alert Engrs. Products, 315 W. Woodbridge St., Detroit 21, Mich.
• American Coal Burner Corp., 12 1/2 Erie St., Chicago 11, Ill.
• Ames Iron Wks. Co., 220 N. Y. St., New York 10, N. Y.
• Benderson, John Phillips Inc., South Ave. & Reading R.R. Weymouth, Pa.
• Brown, Wm. Bellor & Mfg. Co., 10th Ave. S. E., Minneapolis 14, Minn.
• Brywell Co., 206 N. Pindler St., Dayton 1, Ohio
• Dutton, G. H. Co., Portage & Gibson Sts., Kalamazoo, Mich.
• Engrs. & Mfg. Co., 111 S. Main St., Rockford, Ill.
• Enco Equip Co., 55 Hyatt Ave., New York 10, N. Y.
• Erie City Iron Wks., 1422 East Ave., Erie, Pa.
• Farrar & Treffe Inc., 20 Milburn St., Buffalo 12, N. Y.
• Pittsburgh Boiler Co. Inc., 101 Park Ave., New York 17, N. Y.
• Godfrey-Keeley Co., 1 Hudson St., New York 14, N. Y.
• Bellman Boilers Wks., 122 Linden St., Allentown, Pa.
• International Boiler Wks. Co., 1 Birch St., East Stroudsburg, Pa.
• Johnston Bros., Perryburg, Mich.
• Kewanee Boiler Corp., Franklin St. & "Q" Tracks, Kewanee, Ill.
• Letell, James & Co., 426 East St., Springfield, Ohio
• Lookout Boiler & Mfg. Co. Manufacturers Rd. & Compress St., Chattanooga 1, Tenn.
• Orr & Scombower Inc., Reading, Pa.
• Milwaukee Bellman Boiler Wks., 724 N. 32nd St., Milwaukee 10, Wis.
• Mond Boilers, Inc., 1803 N. Indiana St., Los Angeles 23, Calif.
• Alvord Co., 1108 Washington St., Burlington, New York
• Stout, David, & Sons, 1010 Manchester, St. Louis 17, Mo.
• Struthers Wells Corp., Warren, Pa.
• Tilusville Iron Works Co., Div. Tilusville, Pa.
• Union Iron Works, 1426 Cascade St., Erie, Pa.
• Wickes Boiler Div., 812 N. Water St., Saginaw, Mich.

BURN GAS — BURN OIL — BURN EITHER in Steam Generators Expressly Adapted to the Fuel in your Area



Installation shows two models of 200 H.P. Cleaver-Brooks Steam Generators. Foreground model — gas-fired; model shown in rear equipped with a combination burner to burn either gas or oil.

Get Guaranteed 80% Efficiency with either Fuel with a Cleaver-Brooks Steam Generator

INSTALL a steam generator equipped to burn the available fuel in your area—either oil or gas. Cleaver-Brooks offers all three: (1) Oil-fired models, (2) gas-fired models, and (3) models equipped with a combination burner which permits alternate use of gas or oil, providing for a quick change-over from one fuel to the other. Equally important—you get Cleaver-Brooks' guarantee of at least 80% efficiency from full load down to 30% of rating—with either gas or oil as fuel.

And that's not all—more advantages are gained using a Cleaver-Brooks "packaged" steam generator. They give you clean, smokeless operation—eliminate fuel-ash

handling—require no high or costly stacks—no special foundations—fit under low headroom—flexible operation to meet fluctuating loads. Fully meet all codes.

Investigate Cleaver-Brooks Steam Generators—there's a size to fit your needs—15 to 200 p.s.i., 15 to 500 H.P.

CLEAVER-BROOKS COMPANY
332 E. KEEPE AVE., MILWAUKEE 12, WISCONSIN



WRITE on your business letterhead for free Steam Cost-Calculator—a ready-reference slide rule showing comparative steam cost when using oil, gas or coal as fuel.

Cleaver-Brooks "Packaged" STEAM GENERATORS

HAVE SERVED INDUSTRY FOR MORE THAN FIFTEEN YEARS
Listed in bold-face type see advertisers' index pages 224-227