

**MORE ENGINEERING
MORE MATERIAL
MORE EXPERIENCE**

MAKE THE DIFFERENCE

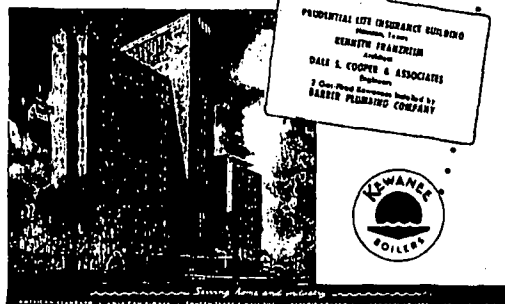


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Kewanee Boilers have led their field for more than 85 years because Architects, Engineers, Contractors and owners know they get more from them . . . and that is true because Kewanee puts more into them.

Check the measurements and specifications shown in every Kewanee catalog. You'll find more of all the features which make a boiler efficient and dependable . . . large, high fireboxes; generous heating surfaces; unimpeded water ways; unobstructed steam release areas; plenty of space for reserve steam. That's why one finds Kewanee Boilers "on the job" providing heat or power or process steam in America's finest buildings and industrial plants.

KEWANEE ROSS CORPORATION
Division of American Radiator & Standard Sanitary Corporation
KEWANEE, ILLINOIS



More TECHNICAL BRIEFS

Likewise, on a 240-416-v system plan to maintain from 244 to 246 phase to neutral. This gives a voltage for motor operation of 423 to 430 v. It is believed that age of this magnitude is far beyond the standpoint of both the utility company and the customer than voltages which vary from 470 to 475. AIEE Paper No. 53-72.

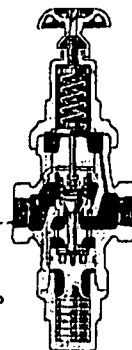
Electrical innovations in the building. By Louis N. Grier, Alcoa Co. of America, Pittsburgh, Pa.

Five features in the electrical installation of the 30-story Alcoa building in Pittsburgh are new in office construction. These are: (1) minor exception, exclusive use of aluminum conductors, (2) exclusive rigid aluminum conduit, (3) exclusive low-reaction riser buses, (4) exclusive all-aluminum lighting fixture design as an integral and efficient part of ceiling panel heating and cooling system, (5) design of a lighting system that can be readily modified to changing office arrangements and provide a lighting level of 35 to 50 candles. To provide these features requires engineering in order to come the natural human resistance to the use of new materials and new methods, and to make possible today's creation of the building of tomorrow.

Electrical load of the building consists of about 3800 hp motor and 11 kva lighting load. Power is supplied from four 11,000-kv lines from the not's Island Station of the Dodge Light Co serving downtown Pittsburgh. Each line connects to a 1,000-v phase subway-type network transformer the 208-v secondary of which connects through a 3000-amp network breaker and a 4,000-amp circuit breaker to a portion of the building, and also to a common bus. All floors above this are powered from a specially designed low-resistance aluminum bus. Each of its three conductors are sector shaped, has 8.346 sq in. cross-section of minimum spaced 1/8 in. between conductors. AIEE conference paper. Copy obtained from the author.

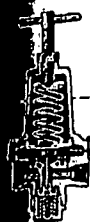
Directions for ordering papers on p. 173

A million dollar "House of Weather" is being built by The Trane Co., La Crosse, Wisconsin, manufacturers of air conditioning, heating and ventilating equipment. The new research and testing laboratory will include facilities for duplicating temperature, humidity, pressure and air movement conditions anywhere on the globe from equatorial mines to arctic heights.



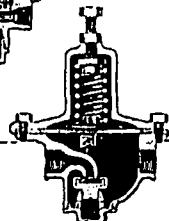
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Pilot operation assures fast response, accurate control. Superfinished parts eliminate sticking and corrosion. Stainless steel integral pilot, hardened main valve, chrome-nickel steel seat ring provide long life. Maintenance, with valve in the line, consists of little more than keeping parts clean. Available in bronze, iron or steel.



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Dependable, high capacity, compact and rugged reducing valve provides stable control. Requires little maintenance during long life. Forged brass bodies — sizes 1/4", 3/8", 1/2".



Masonell No. 227 Reducing Valve for Water

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SOLUTION TO A SHAKY PRESSURE PROBLEM



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