tubes

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LOCKETT FUEL OIL PUMPING AND HEATING SETS



Custom Built

The compact, high-pressure Unit shown consists of one Turbine-driven and two Motor-driven Pumps, and three Shell-and-tube-type Oil Heaters mounted on a single frame. This Unit is designed to handle a capacity of 50,000 pounds per hour of bunker fuel oil against 400 P.S.I.

For almost a half century, Lockett has been supplying, to fit individual needs, efficient standard and custom-built, Fuel Oil Pumping and Heating Sets, for mechanical and steam atomizing oil burners. Combinations of various types of pumps are available: Either two Turbine-driven Pumps; one Electric-driven and one Turbine-driven Rotary Pump; two Electric-driven Rotary Pumps; two Worthington Duplex Steam Pumps; or one Duplex Steam Pump and one Electric-driven Pump. Each pump-and-heater is suitable for the full rated capacity of the unit; the second pump and heater are spares. Lockett supplies everything, complete. Inquiries are invited. *Descriptive bulletins sent on request.*

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graphs and charts. Attention is given Duplex tube combinations of ferrous nonferrous alloys designed to offset effects of the two different corrosive on the outside and inside of tubes.

Other subjects included are: effect water composition, pH values, dissolved gases, temperature variations, biological inhibitors, steam erosion-corrosion, corrosion, etc. Especially helpful is a compact listing of the comparative properties of standard condenser tube alloys.

Pompes, Ventilateurs, Compresseurs Centrifuges et Axiaux (*Pumps, Ventilators, Compressors Centrifugal and Axial*) *(1953) By A deKovats and G Desmur pp, 6x9¼, illust, cloth, 3800 Francs. lished by Dunod, 92 Rue Bonaparte, (VI) France.*

In the main this is a solid treatise theoretical and design fundamentals of trifugal machinery. But substantial space devoted to details of construction, and is some discussion of centrifugal pumps special applications.

In America this book will be of interest chiefly to the French reading designers research men associated with centrifugal building machinery in this general field.

Les Diagrammes Enthalpie-Entropie Applications a l'air et aux Gaz de Combustion (*Enthalpy and Entropy Diagrams Applications to Air and Combustion Gases*) *(1953) By P Chambadal. 50 pp, 8½x11 paper bound, plus 3 large foldout charts 960 Francs. Published by Dunod, 92 Bonaparte, Paris (VI), France.*

This book, with its large charts, will of value to designers of gas turbines, to others concerned with the thermodynamic properties of air and combustion gases. Contents include discussion of the use of the charts, elementary theory of gas turbines, thermodynamic properties of gases, gaseous mixtures, enthalpy-entropy diagrams for air, combustion, thermodynamic diagrams of combustion gas, etc.

American Electricians' Handbook. (*Tenth Edition*). *By Terrell Croft, consulting engineer and revised by Clifford C Head of Department of Electrical Engineering, Pratt Institute. 7½ x 5, 1713 $10.00. McGraw-Hill Book Co, 330 W St, New York 36, N. Y.*

This latest revision of an intensely practical job-book is in accordance with the 1951 National Electrical Code. It gives the problems met by the construction electrician as well as the man interested in plant electrical operation and maintenance. Although well suited for the embryo electrical man it would be a fitting addition the seasoned electrician's library.

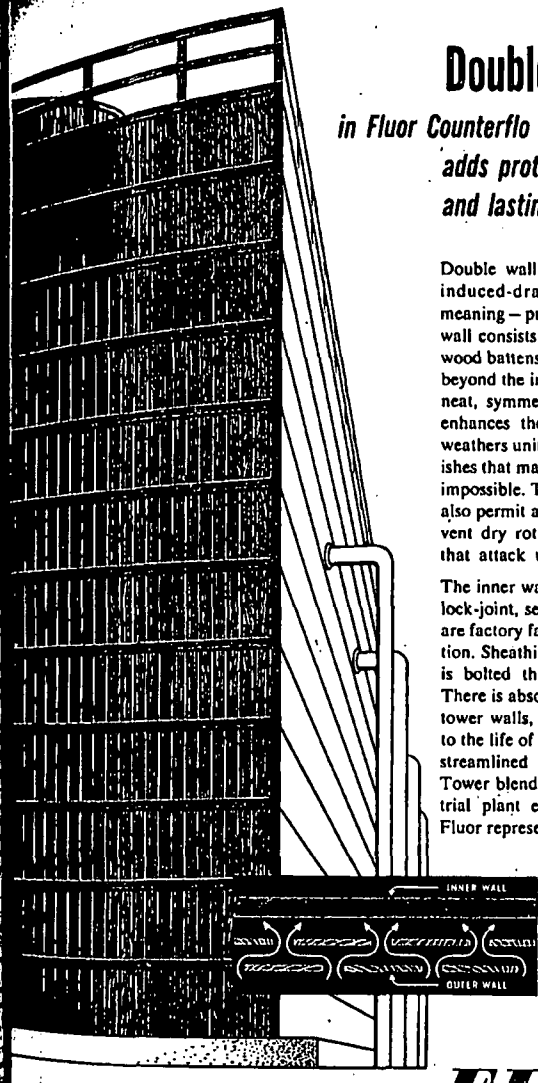
Besides covering all the basic electrical jobs such as signal wiring, branch circuit wiring, etc, the book includes authoritative information on such subjects as electron tubes, and circuits, fundamentals of electrical construction, operation and application of electronic devices in industry, electronic control of motors, automatic electric drive controls, dry-type rectifiers, substation distribution systems, etc.

Double wall sheathing

in Fluor Counterflo Cooling Towers adds protection and lasting good looks

Double wall construction provided on Fluor induced-draft cooling towers has a double meaning – protection and beauty. The outer wall consists of a double row of vertical Redwood battens which are located four inches out beyond the inner wall. This protective casing is neat, symmetrical, eye appealing and greatly enhances the beauty of a cooling tower. It weathers uniformly. Unsightly stains and blemishes that mar a cooling tower's appearance are impossible. The equally spaced rows of battens also permit air circulation around walls to prevent dry rot, algae growth and other blights that attack unventilated cooling tower walls.

The inner wall is constructed from 1 x 6 full Z lock-joint, select "heart" Redwood. Both walls are factory fabricated into panels for easy erection. Sheathing is not nailed to outer posts but is bolted through the main tower columns. There is absolutely no structural load borne by tower walls, another factor which adds length to the life of a Fluor Cooling Tower. The neat, streamlined appearance of a Fluor Cooling Tower blends well with today's modern industrial plant equipment. Contact your nearest Fluor representative, or write for details



Top view of double wall. The uniform spacing of vertical battens is not for the sake of appearance alone. Air is permitted to circulate between the aerators to prevent dry rot and living organisms from attacking tower walls.

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