

## Wolverine Tube Company

SEAMLESS COPPER, BRASS AND ALUMINUM

Main Office and Mill: 1411 Central Avenue, Detroit, Mich.

NEW YORK OFFICE: 420 Lexington Avenue

### Sales Offices

|                     |                                |                       |                    |
|---------------------|--------------------------------|-----------------------|--------------------|
| ATLANTA, GA.        | 411 Georgia Savings Bank Bldg. | MINNEAPOLIS, MINN.    | 529 S. Seventh St. |
| BOSTON, MASS.       | 205 A Street                   | PHILADELPHIA, PA.     | 229 N. Twelfth St. |
| BUFFALO, N. Y.      | Court and Wilkeson             | PITTSBURGH, PA.       | 1228 Brighton Road |
| CHICAGO, ILL.       | 129 S. Jefferson St.           | PORTLAND, ORE.        | 103 N.W. 14th St.  |
| CLEVELAND, OHIO     | 1740 E. Twelfth St.            | RICHMOND, VA.         | Mutual Bldg.       |
| DATTON, OHIO        | Route No. 9                    | ST. LOUIS, MO.        | 4067 Park Ave.     |
| DENVER, COLO.       | 1210 California St.            | SAN FRANCISCO, CALIF. | 7 Front St.        |
| HARTFORD, CONN.     | 186 Hamilton St.               | TORONTO, ONTARIO      | 128 Simcoe St.     |
| LOS ANGELES, CALIF. | 1015 E. Sixteenth St.          | WASHINGTON, D. C.     | 1108 Sixteenth St. |
| LOUISVILLE, KY.     | 111 N. Fifth St.               | SEATTLE, WASH.        | 1005 E. Pike St.   |
| MILWAUKEE, WIS.     | 647 W. Virginia St.            |                       |                    |



### DEOXIDIZED COPPER WATER TUBING

All Wolverine Tubing is extruded from billets of 99.9 per cent pure copper, which accounts for the very high corrosion resistance of this tubing.

Because of the one step extrusion process, metal flow is uniform and unrestricted. The tube, therefore, has uniform density, unusual strength and a mirror-like inside finish. Wolverine Tubing also has an even temper (hard or soft) for easy workability, is free of all scale or sediment, may be frozen repeatedly without bursting and is accurate in dimensions both I.D. and O.D.

Any solder or compression type fitting may be used with Wolverine Tubing to make a perfect joint, due to the close tolerances held in tube diameters.

Wolverine Deoxidized Copper Water Tubing is made to U. S. Government WW-T-799 and A.S.T.M. B-68-33 Specifications under the regular types K, L, and M.

#### Government Type K, A. S. T. M. Class K

Recommended for air conditioning, refrigeration, oil burner and plumbing installations. Particularly suited to underground lines and where water conditions are severe. Also for Gas, Steam and Oil Lines and Industrial Uses.

Sizes up to 2 in. approved by Underwriters' Laboratory.

Furnished in hard or soft temper in straight 20 ft lengths, soft temper in 30, 45 and 60 ft coils.

#### Government Type L, A. S. T. M. Class L

For oil burner, air conditioning, refrigeration and general plumbing uses.

Suitable for normal water conditions. Furnished in hard or soft temper in straight 20 ft lengths, soft temper in 30, 45 and 60 ft coils.

#### Government Type M, A. S. T. M. Class M

Suitable for air conditioning and refrigeration installations and for interior plumbing and heating purposes.

Furnished in hard temper in straight 20 ft lengths only.

For use with soldered fittings only.

### FABRICATED TUBING

Wolverine offers a complete and competent fabrication service for tube parts. This includes bending, flaring, swaging, brazing, etc. Every operation is held rigidly to size and specification.

### DEHYDRATED REFRIGERATION TUBING

Wolverine Dehydrated Soft Copper Refrigeration Tubing is guaranteed to meet A.S.T.M. Specification B-68-33. The ends of each coil of dehydrated refrigeration tubing are solder sealed and crimped in the form of the Wolverine "W."

Wolverine Refrigeration Tubing, in securely wrapped coils, is now available. This spiral crepe paper wrapping protects the coil against atmospheric contact, dirt and other foreign matter. It keeps the tubing absolutely clean until ready for use and it gives the service man a compact package to save room in his kit.

Your local refrigeration jobber can supply you with any quantity or size of Wolverine Tubing. Large stocks carried in the mill at all times for prompt shipment.

## American Society of Refrigerating Engineers

37 West 39th Street, New York, N. Y.

### REFRIGERATING DATA BOOK

THE current (second) edition of the biennial *Refrigerating Data Book* constitutes a one-volume encyclopedia on refrigeration in all its applications by

thirty of the leading experts in the field. The editorial policy is to include all the fundamental information on the art of refrigeration and to include as much of the practical application data as possible. The book is thus useful for the

novice as well as the experienced practitioner. In 470 pages of text data in five parts, its 30 chapters go into the theory, the means and machinery of refrigeration, and its applications. Several chapters deal with air conditioning in theory and practice. In hard leather binding, \$3.50 in the United States. A third edition (1936-38) appears in the fall of 1936.

### HOW TO FIGURE AIR CONDITIONING

A NEW popular book, called "How to Figure Air Conditioning," by Harold M. Henrickson, an able engineer and writer, assembles not only the elementary facts, but shows computations for the design and application of various types of air cooling and conditioning as actually done in the field. In cloth \$1.00, postpaid; 40 pages, with a psychrometric chart and numerous working examples, definitions and the like. Treats systems with and without refrigeration for summer conditioning. The first thing of the kind! Just published!

### REFRIGERATING ENGINEERING

NOW in its 31st volume, *Refrigerating Engineering* is published in a highly popular form with fully illustrated cover and with a wide range of refrigerating

topics, treated every month by the ablest men. This magazine at the same time carries as a scientific section the proceedings of *The American Society of Refrigerating Engineers*, which have given the magazine its unquestioned authority.

The editorial policy is to foster a spirit of independent technical inquiry into all questions which arise in the refrigerating industries, to give the reader a chance to share the perspective of the experienced people who write for its pages, and to bring him also the necessary background information on each topic discussed, so he may know its connection with current affairs. The rate is \$5.00, with lower introductory rates occasionally offered.

### CODES AND STANDARDS

THE A.S.R.E. has a number of technical codes in its series of *Circulars*. Recent additions include the code for *testing and rating mechanical condensing units* (No. 13, 15c) and the code for *testing and rating air conditioning equipment* (No. 14, 20c). Other current data: Plant test code, corrosion prevention code, safety code, code for testing iced refrigerators. Write for free booklet *Pointers to Authors*, including style sheet and directions for locating information in refrigeration.

