



## ELECTRICALLY HEATED R5 RECTANGULAR TANKS

### CUSTOM BUILT TO YOUR REQUIREMENTS

One reason why *STA-WARM* rectangular compound melting tanks are adaptable to countless industrial melting and dipping applications is that each tank is custom built to basic size and shape requirements established by the user. *Sta-Warm* basic construction and heating application is sufficiently flexible to accommodate itself to extra-ordinary shapes and sizes as required. For instance, a 1,250 gal. tank of "T" shape with sloping bottom has been built and is being used successfully for dipping the liners of household refrigerators. Long, lean proportions or short, square, deep shapes can be made to suit the general design of particular parts to be dipped. Temperature ranges to suit heat requirements of various compounds can be engineered as required, as can various types of outlets, valves, dipping baskets, plungers for displacing materials, lids, partitions, etc.

### PRINCIPAL APPLICATIONS

*STA-WARM* rectangular tanks may be used as compound melters or as dipping tanks. Probably the most common uses include cleaning, degreasing, or dip coating of machined parts and tools with wax, ethyl-cellulose compound or other rust preventing material.



Typical Rectangular Dipping Tank

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Typical Model of rectangular tank is shown herewith. Inside dimensions; 24" x 24" x 18". Capacity; 44 gal. Temperature range 250° to 550° F. 480-V, 3 phase 60 cycle.

Designed with 36 heating circuits cemented to within 3" of top of sidewalls. Heat density; 3 watts per sq. in. of tank wall and bottom surface area. A 1" wheel type gate valve for draining contents was located inside of the heating chamber to avoid freezing in the valve. Built with hinged, insulated lid and with perforated partition for melting cold material separately from dipping chamber. A disconnect switch was included.

### BASIC CONSTRUCTION

To produce a ruggedly constructed tank that will withstand many years of steady use, a welded steel inner tank plus sheet steel housing and internally welded angle iron legs of desirable length are usually supplied. The most common type of drain outlet is a 1" heated gate valve. Entire sidewall and bottom area of each tank is heavily protected with heat insulating material.

### HEATING ARRANGEMENT

The secret of *STA-WARM*'s uniform, low-wattage heat is found in the design of multiple heating circuits which blanket sidewall and bottom areas of the inner tank. Many feet of specially wound resistance wire, arranged in as many circuits as necessary to provide heating zones, are cemented to the tank. High wattage spotty heat is eliminated and so is the tendency to carbonize or burn the tank contents.