



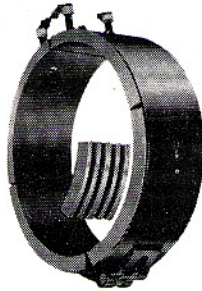
# GLENN ELECTRIC HEATER CORPORATION

"ELECTRIC HEAT IS OUR MIDDLE NAME"

GLENN ELECTRIC HEATER CORPORATION manufactures a complete line of electric heating equipment for industrial and commercial applications utilizing the basic metal sheathed tubular heater, cartridge heaters, and mica insulated heaters.

The items listed below are representative of the GLENN product line and further information regarding these products may be obtained by writing or calling the factory or by contacting any of the Direct Factory Representatives listed on the last page of this brochure.

## STARFLEX® BAND HEATERS



CATALOG SECTION A pages 5 to 8

### TYPICAL APPLICATIONS

Barrel heating of extrusion and injection molding machines, and heating of other cylindrical surfaces.

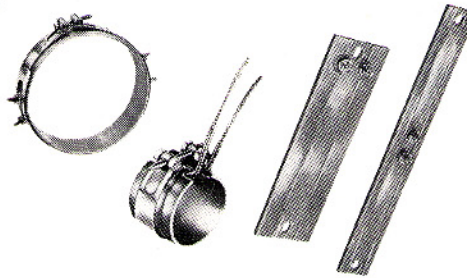
### DESIGN FEATURES

The GLENN Starflex Heater Band is a basic aluminum segmented band heater employing rugged duty tubular type heating elements. A low expansion clamping band provides snug barrel fit and assures good heat transfer through the operating temperature range.

### SIZES • RATINGS

Volts: 120, 240, 480  
 Watts: 300 to 5800 standard  
 Widths: ¾", 1½", 3" and 4"  
 Inside diameters: 4" through 90" in increments of ¼"  
 Special diameters and ratings to order.

## MICA BAND & STRIP HEATERS



CATALOG SECTION A pages 1 to 4

### TYPICAL APPLICATIONS

Strips: Heating of platens, rolls, tanks, ovens.  
 Bands: Barrel heating of plastic extrusion and injection molding machines and other cylindrical surfaces.

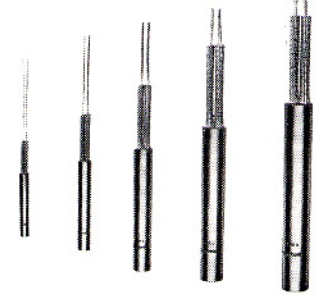
### DESIGN FEATURES

GLENN Mica Band and Strip heaters are manufactured with rust resistant steel sheaths for operation at sheath temperatures up to 750°F. Chrome steel sheathing can be furnished for temperatures up to 1200°F. Special cut-outs, mounting holes and clearance holes can be provided. Various terminal styles available, include stud terminals, button terminals and flexible leads.

### SIZES • RATINGS

Volts: 120, 240 & 480  
 Watts: 12 to 45 Watts per square inch. Watt density varies with application  
 Widths: 1" to 12"  
 Inside diameters: 1" to 60"

## FIREBRAND® CARTRIDGE HEATERS



CATALOG SECTION B pages 9 to 12

### TYPICAL APPLICATIONS

Dies, platens, molds and heat sealing equipment. The unique construction provides greater life and high watt densities permit greater heat concentration.

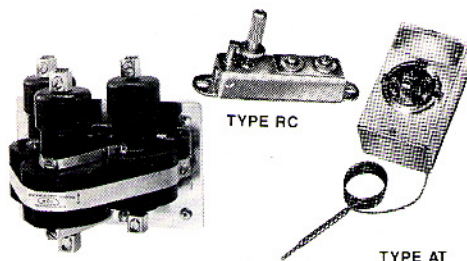
### DESIGN FEATURES

The GLENN Firebrand high watt density cartridge heaters are constructed using Incoloy sheath and heliarc welded end discs. The high quality resistance wire is peripherally wound on a magnesium oxide core and compacted magnesium oxide insulates the resistance coil in close proximity to the sheath providing highly efficient heat transfer. Nominal dia. for bored holes. Semi-flexible leads are standard, but a variety of lead constructions and mounting devices are available.

### SIZES • RATINGS

Diameters: ¼", ⅜", ½", ⅝", and ¾"  
 Lengths: 1½" to 48" standard  
 Volts: 120 and 240  
 Watts: 50 to 5000  
 Special lengths and rating to order.

## THERMOSTATS



CATALOG SECTION H pages 47-50

### TYPICAL APPLICATIONS

To maintain or limit temperatures in electrical heating applications automatically.

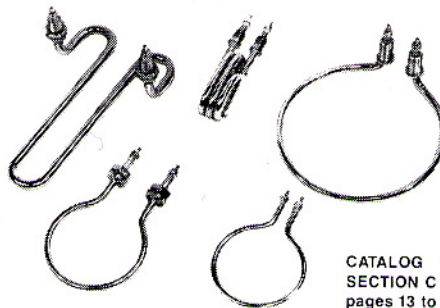
### DESIGN FEATURES

The GLENN Type AT Thermostat is a heavy duty industrial control which is adjustable throughout its temperature range. Sensitive bulb is available in style S (⅜" dia.) for insertion into drilled holes, thermowells, or direct immersion and style L (⅜" dia.) for sensing temperatures in air heating. Solid state controls and type RC contact thermostats are also available.

### SIZES • RATINGS

Temperature Ranges: 60° to 1000°F.

## FORMED TUBULAR HEATERS



CATALOG SECTION C pages 13 to 20

### TYPICAL APPLICATIONS

Straight or formed metal sheathed tubular heaters are very versatile and are adaptable for thousands of applications including: die heating, immersion (with fittings), autoclaves, hopper dryers and oven heating, by conduction, convection or radiation.

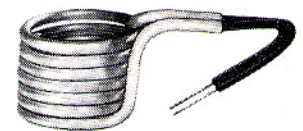
### DESIGN FEATURES

GLENN Tubular Heaters are available in a variety of sheath materials, watt densities and terminal configurations to meet the specific operating conditions of the application. Suitable forming for application requirements can be made at factory.

### SIZES • RATINGS

Diameters: .200, .260, .315, .440 & .495  
 Overall Lengths: 6" to 360"  
 Watts: 75 to 12,000  
 Volts: 120, 240 and 480

## TNH NOZZLE HEATERS



CATALOG SECTION A page 8

### TYPICAL APPLICATIONS

Nozzle heating on plastic injection molding and extrusion machines.

### DESIGN FEATURES

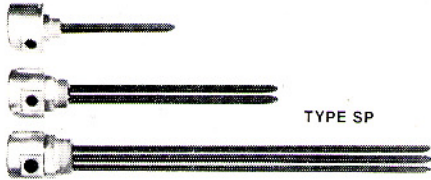
Type TNH GLENN Nozzle Heaters employ a rugged metal sheathed, small diameter, low mass tubular element coiled for a snug slip-on fit. Clamping is not necessary. The exceptionally small diameter sheath (.200) permits reliable tubular element performance in areas where insufficient clearance has previously prevented their use.

### SIZES • RATINGS

Lengths: 1 9/16"  
 Inside diameters: ¾", 1", 1¼", 1½", 1¾" & 2"  
 Volts: 120 and 240  
 Watts: 170 to 800  
 Special sizes and ratings to order.



## SCREWPLUG IMMERSION HEATERS



TYPE SP

CATALOG SECTION D pages 25 to 27

### TYPICAL APPLICATIONS

Heating of water, oil, paraffin, cleaning solutions and degreasing agents.

### DESIGN FEATURES

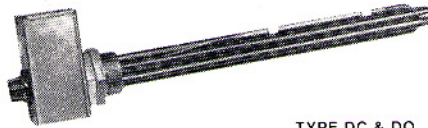
GLENN Type SP Screwplug Immersion Heaters are constructed with tubular hairpin elements welded or silver brazed into standard pipe plugs. Pipe plugs are brass, steel or stainless steel. Element sheath materials are copper, steel or stainless steel. Watt densities vary according to application.

### SIZES • RATINGS

Plug sizes: 1", 1 1/4", 2" and 2 1/2" standard pipe thread  
Volts: 240 and 480, 1 or 3 phase  
Watts: 750 watts to 18 KW  
Special sizes and ratings to order.

## SCREWPLUG IMMERSION HEATERS

### WITH THERMOSTAT



TYPE DC & DO

CATALOG SECTION D pages 28 & 29

### TYPICAL APPLICATIONS

Controlled heating of water or oil

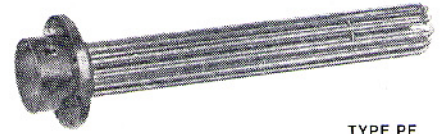
### DESIGN FEATURES

GLENN Type DC Immersion Heaters are used for water immersion service and are constructed of copper sheath tubular elements silver brazed into a brass screwplug header. These units contain an integrally mounted thermostat with a temperature range of 60° to 250°F. GLENN Type DO Immersion Heaters are used for oil immersion service, the element construction is steel and the thermostat is adjustable from 200° to 550°F. Overtemperature manual reset cut out available.

### SIZES • RATINGS

Plug sizes 2" and 2 1/2" N.P.T.  
Volts: 120 and 240, 1 or 3 phase  
Watts: 1.5 to 10 KW  
Special ratings to order.

## FLANGED IMMERSION HEATERS



TYPE PF

CATALOG SECTION D pages 34 to 36

### TYPICAL APPLICATIONS

Fluid heating under pressure. Heating of cleaning tanks, rinse tanks, plating tanks and vapor degreasing tanks. Preheating gas and fuel oil.

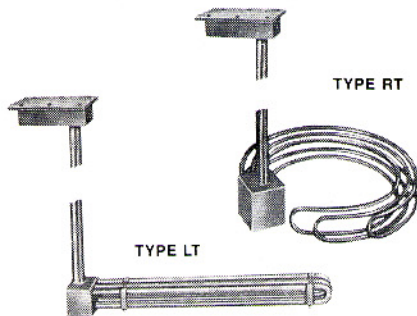
### DESIGN FEATURES

GLENN Type PF Flanged Immersion Heaters are constructed with hairpin tubular elements welded or brazed into standard forged steel pipe flanges. Standard service rating of flanges is 150 lbs. psi. Nema 1 terminal housing is standard. Explosion resistant construction is available.

### SIZES • RATINGS

Volts: 240 and 480, 1 or 3 phase  
Watts: 3 KW to 125 KW  
Flange sizes 3", 5", 6", 8", 10", 12" & 14"  
Larger flange sizes and increased flange service ratings available.

## OVERSIDE IMMERSION HEATERS



TYPE RT

TYPE LT

CATALOG SECTION D page 32

### TYPICAL APPLICATIONS

Rinse tanks, plating tanks, cleaning tanks, degreasing tanks, water solutions and salt baths where it is not desirable to install through the tank wall.

### DESIGN FEATURES

GLENN Overside Immersion Heaters are constructed of rugged hairpin tubular heaters welded or brazed into a junction box. Heater elements are formed to circular shape for use in barrels or round tanks. These units are fabricated of copper, steel or stainless steel depending on application. Sludge legs are available.

### SIZES • RATINGS

Watts: 2 KW to 24 KW  
Volts: 120, 240, 480  
Special riser to order.

## OVERSIDE IMMERSION HEATERS



TYPE VL

CATALOG SECTION D page 31

### TYPICAL APPLICATIONS

Plating baths, rinse tanks, cleaning solutions.

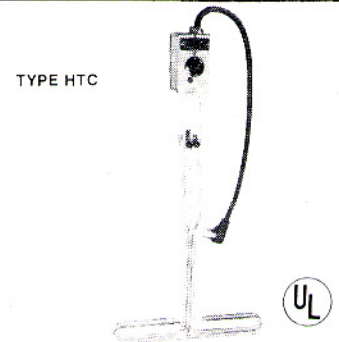
### DESIGN FEATURES

GLENN Type VL (Vertical Loop) Immersion Heaters are heavy duty, coiled tubular heaters designed for immersion service by hanging over the side of a vessel. Terminal ends are welded or brazed into a cast iron housing which affords them protection from moisture, vapors and spillage.

### SIZES • RATINGS

Sheath Materials: Copper, steel, stainless steel, lead and Alloy "C".  
Volts: 240  
Watts: 5000 and 7500

## WATER BOOSTER HEATERS



TYPE HTC

BULLETIN 106 and CATALOG SECTION D page 33

### TYPICAL APPLICATIONS

Water heating applications in restaurants, taverns, confectioneries and soft drink stands to meet local health department sterilization regulations.

### DESIGN FEATURES

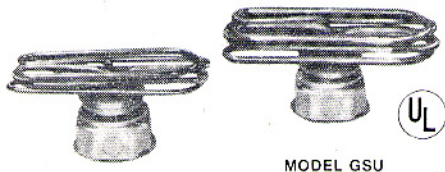
GLENN Type HTC Automatic-Portable Hot Water Booster Heaters include a formed nickel plated copper tubular heater with an integrally mounted heavy duty, splash resistant thermostatic control. Thermostat is equipped with a manual reset over temperature cut out and has a positive on-off switch. Available in stainless steel sheath.

### SIZES • RATINGS

Volts: 120, 208 and 240  
Watts: 1000, 1500, 4000, and 6000



## URN TYPE IMMERSION HEATERS



MODEL GSU

CATALOG SECTION D page 30

### TYPICAL APPLICATIONS

Coffee urns, steam tables and other containers where bottom mounted immersion heater is desirable.

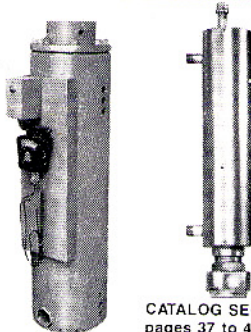
### DESIGN FEATURES

GLENN GSU Urn Type Immersion Heaters are constructed of copper sheath tubular heater elements silver brazed into a 'Quik-Lok' brass header. These units employ a peripheral type clamp assembly designed to permit rapid, simplified installation into a 2<sup>7</sup>/<sub>16</sub>" diameter hole.

### SIZES • RATINGS

Volts: 120, 208 and 240, single phase, 3 heat or 3 phase  
Watts: 1 to 12 KW  
Special ratings to order.  
Stainless steel elements available.

## CIRCULATION HEATERS



CATALOG SECTION E pages 37 to 40

### TYPICAL APPLICATIONS

Heating of water, oil gases, heat transfer oil, super-heating of steam and pre-heating fuel oils.

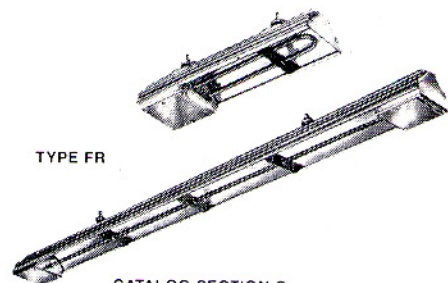
### DESIGN FEATURES

GLENN Type CG, CW and CO Circulation Heaters are complete package units requiring only field plumbing and wiring connections. These heaters consist of a screw-plug or flange type heater assembly housed in a steel pipe chamber fully insulated and with a sheet steel outer shell. Inlet and outlet connections and sediment drain are provided. Explosion resistant features are available.

### SIZES • RATINGS

Type CG: (Air, Steam & Gas) 1 KW to 22.5 KW  
Type CO: (Oils) 3 KW to 80 KW  
Type CW: (Water) 1.5 KW TO 200 KW  
Volts: 240 and 480, 1 or 3 phase.

## RADIANT HEATERS



TYPE FR

CATALOG SECTION G pages 43 to 46

### TYPICAL APPLICATIONS

Comfort heating, food warming, curing of finishes, rubber curing, preheating of glass containers, vacuum forming, shrink fitting metal parts.

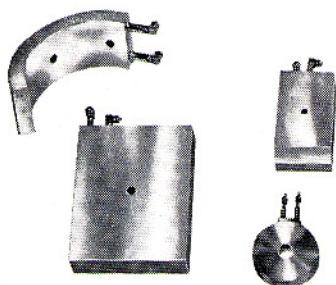
### DESIGN FEATURES

GLENN Type FR (Far-infrared) Radiant Heaters are constructed of metal sheathed tubular heaters mounted in a rigid aluminum reflector housing. The tubular elements provide an excellent source of radiation in the long wave lengths producing far infrared energy which is absorbed by all colors, including black and white, with a high degree of uniformity.

### SIZES • RATINGS

Heated Lengths: 7<sup>3</sup>/<sub>16</sub>" to 174<sup>3</sup>/<sub>4</sub>"  
Watts: 800 to 13,000  
Volts: 120, 240 or 480

## CAST IN ALUMINUM HEATERS



CUSTOM DESIGNS

### TYPICAL APPLICATIONS

Barrel heating of extrusion and injection molding machines, die heating, sealing bars, plastic and rubber molding and plastic laminating.

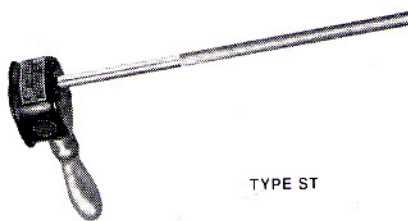
### DESIGN FEATURES

GLENN Cast in Heaters employ tubular heaters cast in aluminum. These heaters are generally manufactured to customer specifications or designed to satisfy the application. Mounting holes, clearance holes, the 'mocouple' holes and cutouts are readily provided. Contact surfaces are machine finished.

### SIZES • RATINGS

Volts: 120, 240 and 480  
Designed to customer specifications.  
Both heating and cooling.

## FIREBRAND BOLT HEATERS



TYPE ST

BULLETIN G-100

### TYPICAL APPLICATIONS

Used in the assembly of heavy presses, turbines, compressors, etc. to expand large studs, drilled bolts and tie rods for the purpose of tightening them while heated to obtain shrink fit tightness when cool.

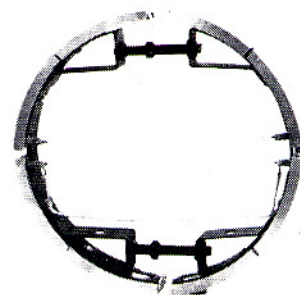
### DESIGN FEATURES

GLENN Type ST Bolt and Tie-rod Expansion Heaters are constructed of tubular type elements with stainless steel sheath mounted to a standard 4" terminal box. An insulated handle provides means for insertion and removal. Wiring is accomplished by attaching a 3 wire cord-set through the knockouts provided in the terminal housing.

### SIZES • RATINGS

Insertion Lengths: 17" to 53"  
Diameters: .438, .490, .553, .565, .688, .747, .813, .938, & 1.047  
Watts: 1000 to 9600  
Volts: 120 or 240

## STARFLEX® INTERNAL BANDS



TYPE SFX

### TYPICAL APPLICATIONS

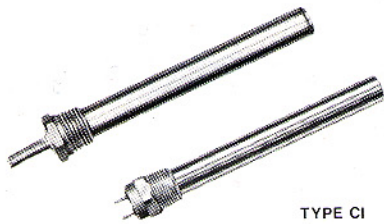
Developed specifically for heating internal cylindrical surfaces such as cored sections of large blown film dies. Heat is applied to an inside cavity or lip with the heater acting as a pre-heater for the process and section involved.

### DESIGN FEATURES

The GLENN Internal Band is an expanding type heater constructed of aluminum segments and tubular elements with a built-in adjustable strap. A tight fit is accomplished by this unique design permitting excellent heat transfer for such an unusual application.

### SIZES • RATINGS

Volts: 120, 240 and 480  
Watts: 300 to 5800  
Widths: 1<sup>1</sup>/<sub>2</sub>" and 3"  
Inside Diameters: 5" through 60"  
Consult factory for more detailed information



TYPE CI

CATALOG SECTION D pages 22 & 23

**TYPICAL APPLICATIONS**

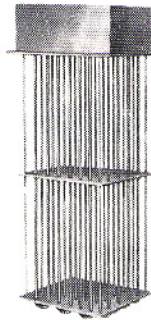
Direct immersion in liquids where there are tight confinements requiring a high concentration of heat. Ideal for through the wall mounting in small tanks, boilers and humidifiers.

**DESIGN FEATURES**

GLENN Cartridge Immersion Heaters are compact in size and rugged in construction. These provide higher watts per square inch than conventional heaters can for similar applications. Available in numerous designs and special features such as moisture or explosion resistant terminal housings.

**SIZES • RATINGS**

Volts: 120, 240, & 480  
Watts: 1 KW to 10 KW  
Lengths: 1½" to 48"  
Special lengths and ratings to order



MODEL ADH

CATALOG SECTION F pages 41 & 42

**TYPICAL APPLICATIONS**

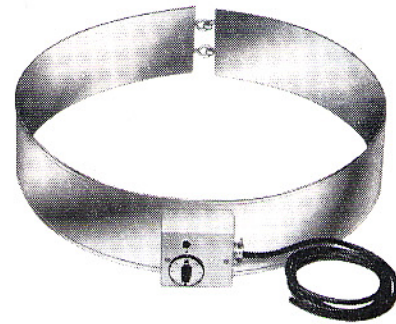
Air ducts for space heating, recirculating ovens, hot air processes. High temperature applications.

**DESIGN FEATURES**

GLENN Duct Heaters are constructed of alloy hairpin tubular elements mounted in a steel flange. Elements are mechanically mounted for ease of replacement. Flange is complete with mounting holes for installation into duct work. Moisture resistant terminal housing available on special order.

**SIZES • RATINGS**

Volts: 240 and 480, 1 or 3 phase  
Watts: 6 KW to 60KW  
Special constructions available.



BULLETIN MDH-100

**TYPICAL APPLICATIONS**

Specifically designed to fit a standard 55 Gallon Drum container. Makes thick materials flow under cold conditions.

**DESIGN FEATURES**

GLENN Type MDH "wrap-around" drum heaters are provided with springloaded clamps for a tight fit and quick installation or removal. Construction is mica insulation with rust and corrosion resistant nickel plated steel. Special sizes to fit larger or smaller diameter drums are available.

**SIZES • RATINGS**

Volts: 120, 240 and 480, 1 of 3 phase  
Watts: 1.5 KW, 2.5 KW, 4.5 KW  
Widths: 3", 5", 8½"

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**GLENN**

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