



## PROCESS and APPLICATION INDEX

APPLICATION OR PROCESS	METHOD OF HEATING	TYPE OF HEATER
Acid Heating	Direct (For Solutions Listed) Liquid Jacket Clamped on or Air Jacket	Leaded Immersion Water or Oil Immersion Cast-In Tubular
Air Filtering	Immersion	Oil Immersion Tubular
Air Heating (Process)	Direct	Tubular Finned Tubular Cast-In Oven Heaters
(Comfort)	Direct	Natural or Forced Convection Air Heaters
Alkaline Baths	Direct	Immersion
Asphalt Tanks (See Also Pipe Heating)	Clamped on or Air Jacket Liquid Jacket	Cast-In Tubular Water or Oil Immersion
Automotive	Immersion Surface	Cartridge Tubular
Babbitt Melting	Direct	Cast-in Immersion Melting Pots
Baking Ovens (Paint, Enamel, etc.)	Air	Tubular Cast-In
Baseboard Heaters	Air	Tubular Finned Tubular
Bolt Heating	Direct	Insertion
Bottle Capping	Surface	Tubular Cartridge
Brass Plating Solution	Direct	Alkaline Immersion
Bronze Plating Solution	Direct	Alkaline Immersion
Cadmium Plating Solution	Direct	Alkaline Immersion
Can Soldering	Direct	Cast-in Immersion
Candy Coating	Liquid Jacket	Water or Oil Immersion
Cartoning Equipment	Surface	Tubular
Caustic Water Solution	Direct	Alkaline Immersion
Cellulose Dip Tanks	Liquid Jacket	Water or Oil Immersion
Chocolate Melting and Processing	Clamped on or Air Jacket Liquid Jacket	Cast-In Tubular Water Immersion
Chromium Plating Solution	Direct	Leaded Immersion
Cleaning Tanks	Direct	Water Immersion Alkaline Immersion



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Coal Spraying	Direct	Oil Immersion
Coffee Roasting	Air	Tubular
Comfort Heating		Cast-In
Component Heaters for: Electric Furnaces	Air	Finned Tubular Tubular
Air Conditioners	Air	Tubular Finned Tubular
Heat Pumps	Air	Tubular Finned Tubular
Wall Insert Heaters	Air, Radiant Radiant	Tubular Finned Tubular
Radiant-Industrial	Radiant	Tubular
Compound Melting	Air Jacket Liquid Jacket	Water or Oil Immersion Strip Tubular
Cooking (Food)	Immersion, Cast-in, Air	Tubular
Copper Plating Solution (Cyanide)	Direct	Alkaline Immersion
(Acid)		Leaded Immersion
Core Baking	Direct	Cast-In Tubular
Defrosting	Air, Surface, Radiant	Tubular Finned Tubular Cartridge
Degreasers	Direct Clamped on or Air Jacket	Oil Immersion Tubular Tubular Cast-In
Dehydrating	Air	Tubular Finned Tubular Cast-In
Deicing (Refrigeration)	Surface	Tubular
Die Heating	Surface	Tubular
Diesels (Starting Aids)	Fuel, Air, Surface, Immersion	Tubular Cartridge
Drying (Ovens and Processes)	Air Radiant	Tubular Finned Tubular Cast-In Air Heaters Tubular



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Duct Heating	Air	Tubular Finned Tubular Cast-In
Electroplating Baths	Direct  Liquid Jacket Clamped on or Air Jacket	Lead or Alkaline Immersion (See Specific Plating Solutions) Water or Oil Immersion Cast-In Tubular
Electrotype Pots	Direct	Cast-in Immersion
Embossing	Surface	Cartridge Tubular
Extrusion (Metal or Plastic)	Surface	Tubular Insertion Cartridge
Fruit Ripening	Air	Tubular Finned Tubular
Fuel Oil and Furnace Oil Preheating	Direct (Also see Automotive)	Oil Immersion
Gelatin Heating	Liquid Jacket	Water Immersion
Glue Melting and Heating	Liquid Jacket	Water Immersion
Gold Plating Solution (Cyanide)	Direct	Leaded Immersion
Grease Melting	Direct Liquid Jacket	Tubular Water or Oil Immersion
Heat Exchangers	Air, Immersion	Immersion Tubular Finned Tubular
Hot Plates	Surface	Cartridge Tubular Cast-In
Humidifying	Direct	Water Immersion
Injection, Plastic	See Plastic Injection	
Labeling Equipment	Surface  Liquid Jacket	Cast-In Tubular Cartridge Water Immersion
Lead Melting	See Metal Melting	
Lead Plating Solution	Direct	Leaded Immersion
Metal Extrusion	Surface	Tubular Insertion



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Metal Melting	Direct Clamped on or Air Jacket	Cast-in Immersion Cast-In Tubular
Molasses Heating (Tank)	Liquid Jacket	Water or Oil Immersion
Mold Heating	Surface	Tubular Cartridge
Molding Presses	Surface	Tubular Insertion Cartridge Cast-In
Molding (Vacuum) (Plastic Sheets)	Radiant	Tubular
Nickel Plating Solution	Direct	Leaded Immersion
Oil Heating, Reclaiming, Tempering	Direct	Oil Immersion
Oven Heating (1000° F. Max.)	Air	Tubular Oven
Oven Heating (800° F. Max.)	Air	Cast-In Oven
Packaging Equipment	Surface  Liquid Jacket	Cartridge Cast-In Tubular Water or Oil Immersion
Paraffin Baths	Direct	Oil Immersion
Pipe Line Heating (Including Winter Protection)	Surface	Tubular
Plastic Extrusion or Injection	Surface	Tubular Insertion Cartridge
Plastic Molding	Radiant, Surface	Tubular Cartridge Insertion Cast-In
Platen Heating	Surface  Liquid Jacket	Cartridge Tubular Insertion Cast-In Water or Oil Immersion
Plating Baths	Direct Liquid Jacket Clamped on or Air Jacket	Alkaline or Lead Immersion Water or Oil Immersion Cast-In Tubular
Recapping	Surface	Tubular



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Roll Heaters	Surface	Tubular Cast-In Oil Immersion
Sealers (Hand)	Cast-in, Surface	Tubular Cartridge Cast-In
Silver Plating Solution (Cyanide)	Direct	Alkaline Immersion
Snowmelters	Surface, Radiant	Tubular
Soldering (Industrial)		Soldering Irons
Space Heating (Motors, Generators, Control Cubicles, Switchgear, etc.)	Air	Tubular Cast-In
Steam Generators	Immersion	Flanged Immersion Tubular
Steam Superheating	Direct	Tubular
Tin Plating Solution	Direct	Alkaline Immersion
Vacuum Molding (Plastic Sheets)	Radiant	Tubular
Valve Warming	Surface  Liquid Jacket	Cartridge Tubular Water or Oil Immersion
Vaporizers	Immersion	Immersion
Varnish Heating	Clamped on or Air Jacket  Liquid Jacket	Cast-In Tubular Oil Immersion
Vulcanizing	Surface  Liquid Jacket	Cartridge Tubular Cast-In Water or Oil Immersion
Warming Ovens	Air	Cast-In Tubular Finned Tubular
Water Heating	Direct	Water Immersion Tubular
Water Towers	Immersion, Surface	Tubular Cast-In Immersion
Wax Melting and Heating	Direct Liquid Jacket	Oil Immersion Water or Oil Immersion
Wood Processing	Air, Surface	Tubular Finned Tubular
Yarn Conditioning	Immersion	Water Immersion
Zinc Plating Solution	Direct	Alkaline Immersion