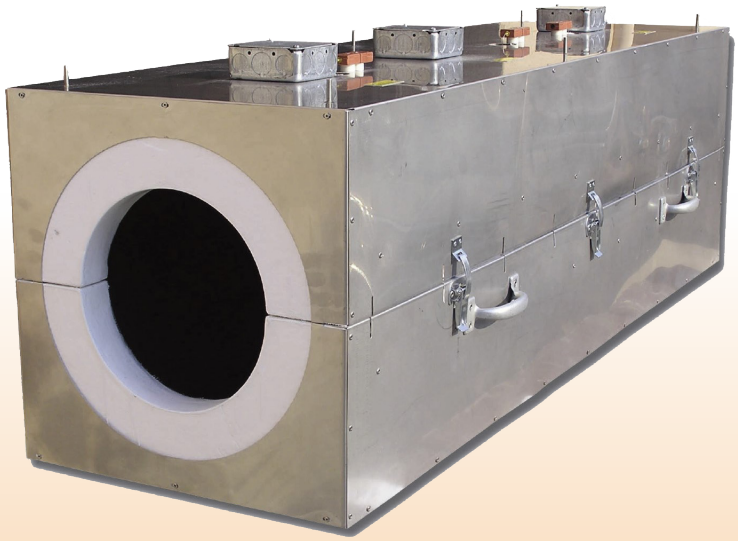
INFRARED MUFFLE HEATERS

Infrared muffle heaters produce intense, uniform, and focused infrared heat at temperatures up to 1800°F

FAST HEAT UP & COOL DOWN

We combine low mass with a high emissivity interior surface that allows for fast heat up & cool down plus precision temperature control. The heating element is a precision wound coil cemented to machined refractory material. The high temperature cement helps conduct heat to the radiating face. The use of wound coils provides maximum versatility in designing a muffle heater for almost any wattage, voltage, and number of zones. For precise control, replaceable thermocouples can be installed to measure chamber temperature and/or coil temperature. The interior surface can have exposed coils for fastest heat up or a bonded quartz fabric for improved durability and aesthetics. Available options for further protection from impact or abrasion include a protective stainless steel wire screen or a heavy wall clear quartz tube.



Since the insulated cylinder completely surrounds the product, the heat loss is minimized, and almost all of the energy goes into the product. This results in high rates of heat transfer and high efficiency.

HOUSING OPTIONS

The heater housing can be made as a closed cylinder, clam-shell cylinder, or slotted cylinder for chain-onedge clearance. Sizes range from 1/2" – 24" ID x 2" – 48" long. An individual muffle heater can be built with multiple zones arranged along the length or around the circumference.

SINCE 1956

We specialize in building infrared heaters. Not ovens... not systems... just the best infrared muffle heaters, panel heaters, and quartz tube heaters on the market. That's why we're the largest OEM supplier of medium wavelength infrared heaters in the USA. Choose from thousands of existing designs or have us engineer a custom heater specifically for your application.

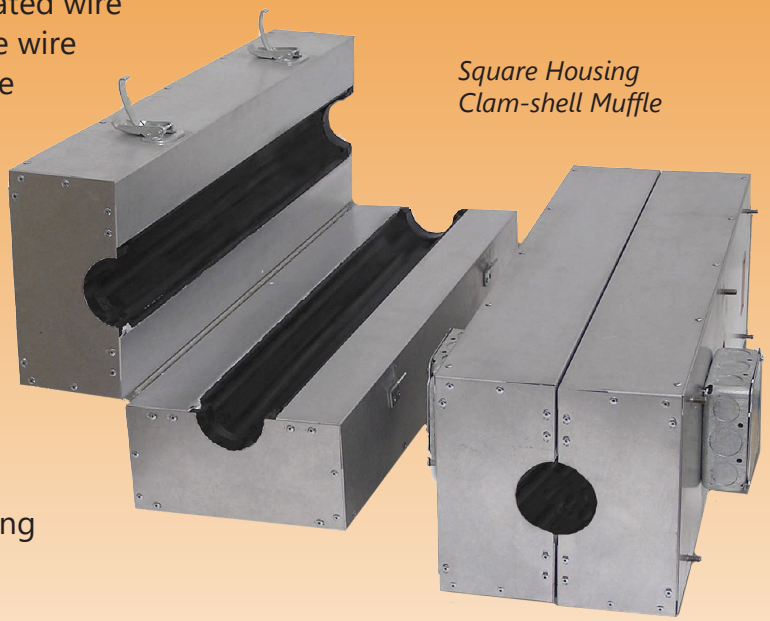
ADDITIONAL DESIGN FEATURES

- *Flexible sizing*
- *Extremely durable*
- *Notably long life*
- *Energy efficient*
- *Economical*
- *Can be mounted on any axis*
- *Up to 25 watts per square inch*
- *Outer shell made of aluminized steel, aluminum, or stainless steel*

SOLAR PRODUCTS INFRARED MUFFLE HEATERS ARE IDEALLY SUITED FOR APPLICATIONS IN THE FOLLOWING INDUSTRIES:

Wire & Cable

- Dry/cure striping & nomenclature ink on insulated wire
- Sinter fluorocarbon resins on high temperature wire
- Sinter PTFE cable wrap on multi-conductor wire
- Preheat wire prior to fluropolymer extrusion
- Dry lacquer on braided insulated wire
- Heat shrink tubing on wire harnesses
- Burn lubricant off extruded wire
- Heat FEP extrusion on wire



Square Housing Clam-shell Muffle

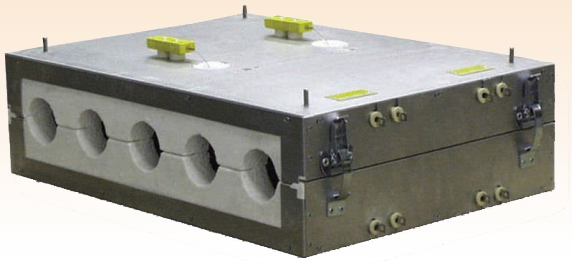
Yarns, Threads & Strapping

- Dry/cure graphite coatings on spark plug wire
- Dry/cure water based coatings
- Bond synthetic thread
- Heat treat & condition fiberglass prior to coating
- Fuse vinyl rope
- Dry/cure strapping adhesives
- Heat set yarn
- Preheat yarn prior to resin impregnation

Five Pass Clam-shell Muffle

Hose & Tubing

- Heat shrink tubing
- Cure extruded silicone tubing
- Sinter extruded fluropolymer tubing
- Heat shrink FEP medical tubing onto catheters
- Preheat hose prior to extrusion coating
- Regloss plastic tubing



Pipe & Conduit

- Preheat PVC pipe and conduit prior to belling
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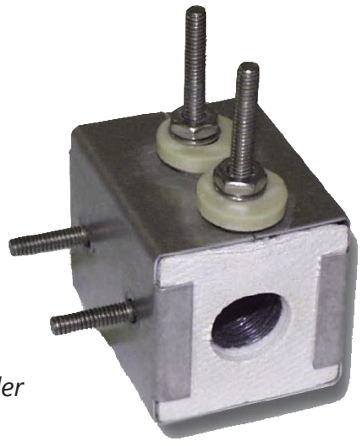
- Preheat PVC and steel prior to cutting
- Preheat for convoluting
  Fiber Optics
- Dry/cure color coding inks
- Dry/cure water based coatings



Closed Cylinder Mini Muffle

Sleeving

- Dielectric sleeving
- Dry/cure saturants on fiberglass
- Fuse PVC coatings on fiberglass

Extruded Profile

- Cure silicone gasketing