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Head Office
Neptronic®
400 Lebeau Blvd.
Montreal, Quebec, Canada H4N 1R6
Tel.: (514) 333-1433
Fax: (514) 333-3163
Toll Free: 1-800-361-2308

Heat with Tubes
## Tubular and Finned Tubular Type Heating Elements

In a previous TechTime article we discussed "Open Coil" heating elements along with their applications and advantages. This edition covers Tubular and Finned Tubular elements. Finned tubular elements have the same tubular coils but with fins wrapped around them.

Tubular

Finned Tubular

Tubular and Finned Tubular types are the most dependable, versatile and rugged of any heating elements. They offer excellent heat dissipation, are less sensitive to humidity and dust and best suited for demanding environments. These heating coils offer an excellent advantage since the resistive element is not in direct contact with the air.
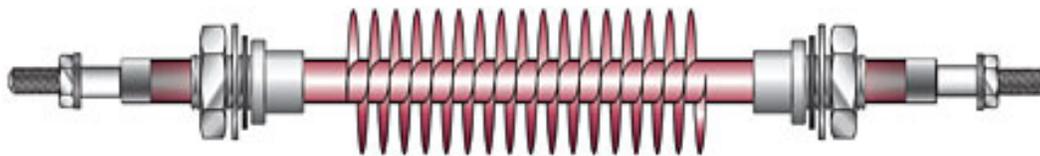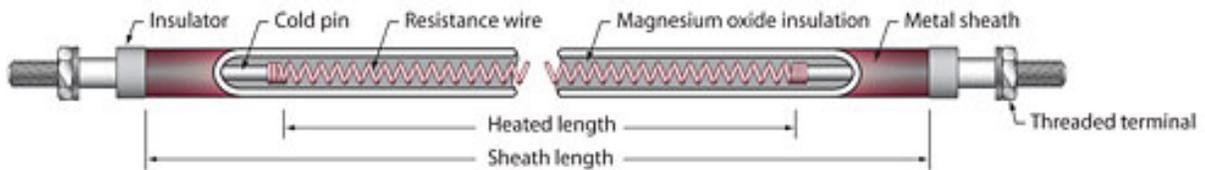
Finned tubular elements are made of Incoloy 800 (Nickel-Alloy) tube with a diameter of 3/8" (9.5mm). Neptronic uses precision wound 80-20 nickel-chrome wire to deliver an

USA
NEP Inc.
P.O. Box 1151
Medford Oregon,
USA 97501
Tel.: (541) 531-5746

Middle East & Asia
NEP International FZE
P.O. Box 125687,
Dubai, UAE
Tel.: +97155 8825487
Fax: +9714 3426772

Singapore
Neptronic Pte Ltd
Office D6, #03-38,
Mountbatten Square
229, Mountbatten Road,
Singapore – 398 007
Mobile: +65 8118 4184
Tel: +65 6650 6212
Fax: +65 6491 6423

even heat distribution to the element sheath. High purity, grade A magnesium oxide is used as the internal insulation to insure the best thermal transfer and insulation resistance. Electrical terminals (Stainless steel or Brass), mounting fittings and brackets, along with the wide array of bending options allow for easy integration into any heating system.

The tubes come standard with steel fins to allow more efficient heat dissipation but can also be supplied in stainless steel for applications that require corrosion resistive elements.

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