

# Innovative New Twist on Radiant Tubes



## Composite Finned Tubes

*Higher Operating Temperatures up to 2450° F • Longer Tube Life*

*Reduction in Gas Consumption • Improved Recovery Rates • Increased Combustion Efficiency*



**Innovators in Composite Radiant Tube Technology**

# Why Us?

INEX, Inc. has pioneered new affordable advanced materials technology to improve heat treat operations all over the world. The superior performance and long tube life achieved with our composite silicon/silicon carbide patented material has earned us the reputation as "Innovators in Radiant Tube Technology". Outstanding tube life has meant a reduction in tube replacement costs in both labor and material, and more importantly the elimination of furnace downtime. The high temperature capability of our tubes has meant that many users have been able to reduce recovery and cycle times as well as reliably achieve higher process temperatures. An all new manufacturing technique for tubular shapes has made these advanced materials competitive with conventional nickel chrome alloys. Now with over ten thousand of these advanced tubes in service in a wide variety of heat treat processes, INEX announces another significant innovation - Finned CRT's!

# Why Fins?

Only INEX has been able to create a tube with internally spiraled fins capable of operating temperatures up to 2450°F. Our revolutionary finned tubes promise to expand the already enviable reputation of our composite tubes. Not only will these tubes deliver the same long life and superior heat transfer capabilities but they will literally pay for themselves. By stirring up the gas flame and simultaneously increasing the surface area to capture heat, these finned tubes increase combustion efficiency. It's actually that simple!

*INEX, formed in 1983 to launch its novel composite radiant tubes (CRTs), continues to manufacture and supply CRTs to captive and commercial heat treaters all around the world. Those heat treaters are benefiting from the superior performance and long life made possible by this revolutionary advancement.*



## Standard Sizes inch (mm)

Tube O.D.:	2 <sup>3</sup> / <sub>8</sub> (60.3)	3 <sup>1</sup> / <sub>4</sub> (82.5)	4 <sup>1</sup> / <sub>2</sub> (114.3)	2 <sup>3</sup> / <sub>4</sub> (70)
Fins:	12	15	18	18
Fin Height:	<sup>1</sup> / <sub>4</sub> (6.4)	<sup>1</sup> / <sub>4</sub> (6.4)	<sup>1</sup> / <sub>4</sub> (6.4)	<sup>3</sup> / <sub>8</sub> (9.5)
Twist Rates: per revolution	12 (304.8)	12 (304.8)	20 (508)	18 (457.2)

*Special fin lengths and twist rates available upon request.*

- *Higher Operating Temperatures up to 2450° F*
- *Longer Tube Life*
- *Reduction in Gas Consumption*
- *Improved Recovery Rates*
- *Increased Combustion Efficiency*
- *Proven Savings*

INEX conducted a year long test in a pusher furnace. Though this was considered a conservative test, the results showed a 10.4% metered fuel savings. The furnace was rated at 600,000 BTU's per hour and was operated at high fire approximately 60% of the available time. A savings of over 300,000 cubic feet of gas resulted in an annual savings. With the cost of gas rising dramatically, plug in your own figures and see the savings an INEX Finned CRT can deliver to you!



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