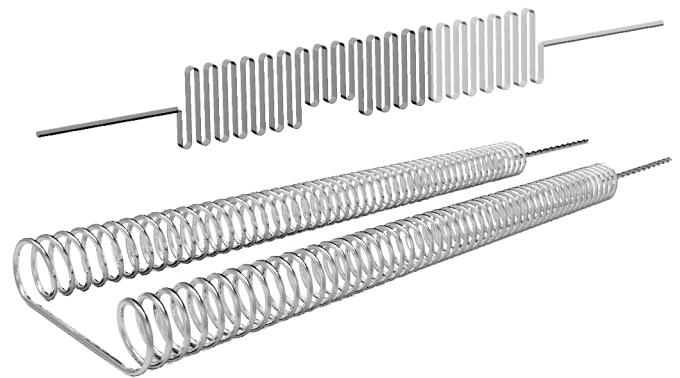


OPEN COIL & SINUSOIDAL STRIP HEATERS

Open coil & sinusoidal strip heating elements have open circuits consisting of coiled resistance wire/ strip (element usually Ni-Chrome alloys or ferritic alloys FeCrAl) fixed onto a supporting insulation body like ceramic tube, ceramic fiber board, insulation refractories etc that heat the medium directly. Termed as the most efficient and versatile while also the most economically feasible solution for heating, these elements have fast heat up times because direct heat transferred to object by radiation without insulation medium. This improves efficiency and has been designed for low maintenance and inexpensive replacement parts. When an electrical current is applied to the wire, it gives off heat. The wire is connected to the control panel which regulates the amount of heat provided by the electric heater and fills the tunnel of the air handling unit. Because of the low

mass and fast response time, SSR or SCR switching devices are advisable. They serve as an indirect solution to decrease watt density requirements and prevent heat sensitive materials from breaking down. The heater can be formed into a compact, coiled nozzle heater supplying a full 360 degrees of heat with optional distributed wattage.



Technical Specifications

| | |
|-----------------------|--|
| Heating Wire/Strip | Ni-chrome Alloys or Ferritic Alloys FeCrAl |
| Watt Density | Up to 3 W/cm ² |
| Operating Temperature | Up to 1100°C |
| Length | Customizable |
| Controls | SSR/ SCR/Relays/RTD |
| Terminations | Customizable |
| Fixing | Mount on ceramic tube, ceramic fiber board or insulation refractories. |
| Rating | 4 - 20 kW |
| Voltage | customizable |
| Outside diameter | customizable |

Note : For custom design requirements please contact sales@marathonheat.com

Applications

- Direct furnace heating application
- Muffle furnaces application
- Air heating
- Heating in a vacuum environment

Advantage

- Fast heat up time
- Low maintenance cost and easy replaceable.
- Low cost because of no need extra accessories.
- High ductility.