Marathon
TempSens

ENGINEERED SOLUTIONS
FOR HEATING & SENSING

ALUMINIUM FOIL HEATER

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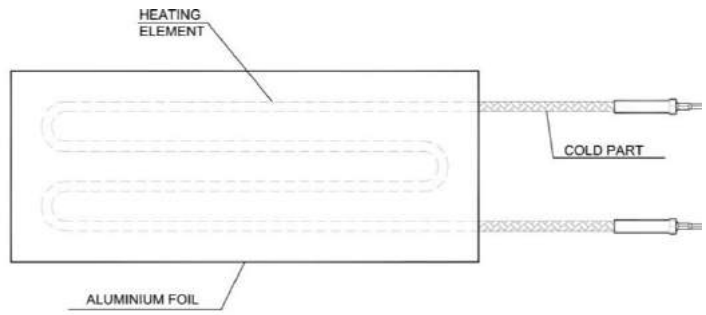
Aluminum Foil Heater

Construction



- **Conductor** Alloy- Nichrome 80/ Alloy 875/ Alloy 815/ Nickel 200/ Alloy 30/ Alloy 15/ Alloy 10/ Alloy 5/ Alloy 27 / Alloy 50/Copper/ Stainless Steel/ Customize
- **Insulation** - PTFE/Silicon/Customize
- **Max. continuous Temperature-** 105°c/125°c/150°c/200°c/
- Earthing through aluminum sheets.

Introduction

Electric resistance heaters with foil backing are being produce to fulfil specific specifications for size, shape, layout, cut-outs, lead wire, and lead termination. The heaters can have dual wattages, dual voltages, built-in temperature control, and sensors. The Aluminium foil heaters can be mechanically affixed with rivets, sheet metal screws, or other mechanical devices, or they can be mounted to a surface using an integrated adhesive. For more demanding applications, a semi-rigid Aluminium backing plate delivers structural support.

The Aluminum foil heater has a moisture resistance heater, it is very low cost heater compared to others than.

It can be easily install with an adhesive blocking system, there has used of highly flexible/high Thermal conductivity of Aluminium foil, it makes possible to regulate the temperature quickly.

There has used high grade of Aluminium foil that will sustain the 650°c of temperature, The temperature of cable 150°c will be continuously operating. There has to be a cold Lead of 3.5 (Customized) meter for the power supply with XLPE/Silicon Insulated and PVC Sheathed.

Temperature can be controlled using thermal regulators (thermostats)

Application

- Key element to provide heat in Radiant Panel Heater used to heat-up the different spaces.
- Maintaining the ideal temperature for food on serving utensils such buffet tables, warming boxes and cabinets, salad bars, chafers, and other similar items
- To heat equipment such as cylinders, test tube heaters, magnetic stirrers, chambers, containers, pipelines, beakers, and more.
- In order to supply heat for equipment such as incubators, blood warmers, in vitro fertilization heaters, operating tables, befouled warmers, anesthetic heaters, and more
- To provide radiant heat
- To prevent condensation on mirrors and battery warming
- Defense against freezing or maintaining temperature in vertical or horizontal tanks
- Protection from freezing for plate heat exchangers.
- Electronic or electric control box anti-condensation
- Refrigerated display cabinets, household items, and medical equipment anti-condensation.

Construction Data

Resistance Wire Alloy	Alloy- Nichrome 80/ Alloy 875/ Alloy 815/ Nickel 200/ Alloy 30/ Alloy 15/ Alloy 10/ Alloy 5/ Alloy 27 / Alloy 50/Copper/ Stainless Steel/ Customize.
Power Range	50 – 3300 watt
Voltage range	120, 230 Volt & Customize
Heating Material	Aluminum Foil sandwiched between two thin sheets of aluminum
Max. Continuous Temperature	200°c
Insulation Type	XLPE/Silicon/FEP/ETFE/ECTFE/FPA/PTFE/Customized.
Cold Lead	XLPE/Silicon Insulated 105°c/ Customise
Cold Lead Connection Type	Crimp with Connector

Technical Specification

Product Name	Aluminum Foil Heater
Function	Anti-condensation, Freeze Protection, Mirror condensation prevention and medical equipment anti-condensation
Features/Benefits	Earthing of the aluminum sheets.
	Voltage – any voltage on request
	Resistance to moisture
	Easy to Install (when ordered with the adhesive backing)
	Low mass means fast heat-up time
	High flexibility
	Material -Full body aluminum foil.
Material	FEP/PFA/ETFE/PTFE/XLPE/Silicon//Customize Insulated Wire
Resistance Range at 20°c	3500ohm/m -0.169 Ohm/m
Applied Voltage	12, 24,110, 230V / customize single Phase
Watt Density	Up to 40 watt/m
Temperature Range	Up to 200°c
Standard width	Customize as per requirement