

Components Application Guidelines

Applications (cont'd.)

Strip/Ring/Disc heating elements are rugged and easy to install for heat transfer by conduction or convection to heat liquids, air, gases and surfaces with sheath temperatures up to 1600°F and watt densities to 35 W/in². Common applications include drying, melting, baking and curing. Strip heater sizes range from 0.5" wide to 2.5" and lengths to 72" long. Heaters bolt or clamp to many surfaces. Nested ring heaters can provide concentrated heat in small areas. Select from many sheath materials, termination styles, operating temperatures, sizes, voltages, wattage ratings and mounting devices.

Band heaters grip tightly to cylindrical surfaces to supply uniform heat transfer, critical to the heater life. Chromalox band heaters are flexible and come in one or two-piece construction for easy installation and removal. They accommodate diameters as small as 15/16" and as large as 20" and are capable of reaching sheath temperatures up to 1600°F. Stainless steel braids and conduit protect terminations and resist contamination. Completely customize your heater by specifying exact physical dimensions, material, electric ratings and terminations.

Cartridge heaters are high efficiency heating elements. Diameters of cartridge heaters range from 0.25" to 1.25". Watt densities from 25

W/in² to 200 W/in² and sheath temperatures to 1600°F. Optional end seals resist contaminants and moisture from entering inside the heater. Chromalox provides a variety of sizes, wattage ratings, voltages and protective features to meet many challenging applications.

Flexible heaters are very versatile and provide solutions to a vast number of low-to-medium temperature applications. Heaters are manufactured with rugged light-weight materials providing chemical and moisture resistance with operating temperatures to 390°F. Wire elements are durable and wound precisely within the structure for optimal performance. A variety of electrical, shape and contour fittings to meet many specifications.

Tubular Heaters — Section Outline

Section	Page
Application-Modifications	A-7
Factory Bending	A-8
Terminals	A-10
Customer Bending	A-12

Tubular Heaters — Selection Guidelines

Type	Sheath	Diameter (In.)	Model	Page
Round	INCOLOY®	0.475	TRI	A-13
		0.475	TRID	A-14
		0.475	TRIW	A-14
		0.430	TRI	A-15
		0.375	TRI	A-16
		0.315	TRI	A-17
		0.260	TRI	A-19
		0.246	TRI	A-20
		0.200	TSSM	A-21
		Stainless Steel	0.475	TRSS
	0.475		TRSSH	A-23
	0.475		TRSSN	A-23
	Steel	0.475	TRS	A-24
		0.475	TRSCD	A-24
		0.475	TRSC	A-25
0.315		TRS	A-27	
Copper	0.475	TRC	A-28	
	0.475	TRCC	A-28	
	0.315	TRC	A-30	
Heart Shaped	INCOLOY®	0.5	TI	A-31
		0.375	TI	A-33
		0.375	RTU	A-35
		0.375	UTU	A-37
		0.375	UTU-LT	A-40
		0.430	UTUA-LT	A-41
		0.375	URPT	A-42
		0.375	LMS	A-43
		Steel	0.5	TS
	0.375		TS	A-45
	Flat Pressed	INCOLOY®	0.375, 0.4375	ATS
0.375, 0.4375			ATU	A-47
Round/Single End	INCOLOY®	0.475	STRI	A-48
		0.315	STRI	A-49
	Steel	0.475	STRS	A-50
		0.315	STRS	A-51
	Copper	0.475	STRC	A-52
		0.315	STRC	A-53
Hopper Heater	INCOLOY®		FSRM	A-54
Thin Blade	Stainless Steel		CTB	A-55