

CERAMIC / QUARTZ ELECTRIC HEATERS

Ceramic Heaters

Durex Industries offers a line of ceramic long wave infrared heaters, in wattages up to 1400W and all popular international voltages. The high emissivity of these heaters ensures optimum radiant efficiency in a wide range of applications, including plastics, coatings, thermoforming, drying, foodservice, packaging, and OEM oven construction.



Flat, trough, hollow and bulb styles are available in standard configurations with cast-in iron-chrome aluminum resistance wire heating elements. The glazed ceramic surface protects the coil from corrosion and chemical contamination. These heaters provide a temperature range from 300°C – 730°C (572°F – 1346°F), producing an IR wavelength from 2-10 microns.

Aluminized steel reflectors can be supplied with these ceramic heaters to direct more heat to the target area. Heat-sensitive color heaters are offered, which change color when maximum temperatures are achieved. Built-in Type K or J thermocouples for ceramic elements are also available.

Quartz Heaters

Durex offers medium wave infrared resistance wire helix elements inside quartz tubes for applications where rapid response time is required for heating and cooling. Polished parabolic radiant aluminum reflectors maximize the efficiency of these heaters. Coating curing, ink drying, plastic film processing, adhesive activation, laminating, rubber vulcanizing, sterilizing, photocopying, image setting and myriad other uses benefit from this energy-efficient and clean hot source.



Durex quartz heaters feature element temperature ranges to 1700F (930C) and infrared radiation with a peak energy wavelength of 2.5 microns. ½" or " (12.7mm or 15.8mm) diameter tubes are offered in various lengths to 60" (1.52 m). Tube watt densities to 45W/in² (6.2W/cm²). Full operating temperature is achieved in 60 seconds or less, depending on size. Capable of cooling to 50% of output in 15 seconds or less. Designed for horizontal use only.

Various mounting and row configurations are available. Thermocouple bracket and Type K thermocouple on ceramic end caps are optional. Quartz tubes are also available without reflector housings. Quartz/Tungsten and Quartz/Halogen elements are offered, as well as "Fast IR" instant on/off modular units.

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All styles shown are available in white, yellow, coral and black. Color does not effect heat output. Yellow changes to orange, when heated; coral changes to grey. White and black do not change. 6" ceramic bead insulated leads are standard, other lengths are available.

WP-FFE	Full flat element 150W-1000W	9.65" x 2.36" (245mm x 60mm)
WP-FFEH	Full flat element hollow 150W-800W	9.65" x 2.36" (245mm x 60mm)
WP-FTE	Full trough element 150W-1000W	9.65" x 2.36" (245mm x 60mm)
WP-FTELN	Full trough element longneck 150W-1000W	9.65" x 2.36" (245mm x 60mm)
WP-FTES	Full trough element slim 150W-650W	9.65" x 1.57" (245mm x 40mm)
WP-HFE	Half flat element 125W-500W	4.80" x 2.36" (122mm x 60mm)
WP-HFEH	Half flat element hollow 300W-1400W	4.80" x 2.36" (122mm x 60mm)
WP-HTE	Half trough element 125W-500W	4.80" x 2.36" (122mm x 60mm)
WP-LFFE	Large full flat element 300W-1400W	9.65" x 3.54" (245mm x 90mm)
WP-LFTE	Large full trough element 300W-1400W	9.65" x 3.54" (245mm x 90mm)
WP-QCE	Quarter curved element 150W-1000W	2.36" x 2.36" (60mm x 60mm)
WP-QFE	Quarter flat element 125W-250W	2.36" x 2.36" (60mm x 60mm)
WP-QTE	Quarter trough element 125W-250W	2.36" x 2.36" (60mm x 60mm)
WP-SFEH	Square flat element hollow 125W-250W	1.26" 2.44" x 0.748" (32mm x 62mm x 19mm)
WP-SFSE	Square flat solid element 150W-750W	4.80" x 4.80" (122mm x 122mm)
WP-LCH	Long ceramic heater. Various glazed colors. Reflectors and assemblies available.	18" and 12" (0.457m and 0.304m)
WP-ESE	Ceramic bulbs/Edison base 60W and 100W Ceramic bulbs/Edison base 150W and 250W	3.15" dia. x 4.33" (80mm dia. x 110mm) 3.74" dia. x 5.51" (95mm dia. x 140mm)
CERIX THERMOCOUPLE Built-in thermocouple for ceramic element, Type K or J standard or calibrated.		

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QUARTZ HEATERS

All styles shown are available in custom row and width configurations, with or without reflectors. Other wattage and voltage ratings, as well as coated backing on tubes for greater heat concentration, are available. 6" ceramic bead insulated leads are standard, other lengths are available.

WP-FQE	Full quartz element 250W - 1000W	9.72" x 2.46" (247mm x 62.5mm)
WP-FQEG	Full quartz element gold 250W - 1000W (gold-backed tubes)	9.72" x 2.46" (247mm x 62.5mm)
WP-FQEGS	Full quartz element gold 250W - 1200W (stainless steel reflector bodies)	9.72" x 2.46" (247mm x 62.5mm)
WP-HQE	Half quartz element 125W - 500W	4.86" x 2.46" (123.5mm x 62.5mm)
WP-PFQE	Pillared full quartz element 250W - 1000W	9.72" x 2.46" (247mm x 62.5mm)
WP-PHQE	Pillared half quartz element 125W - 500W	4.86" x 2.46" (123.5mm x 62.5mm)
WP-QQE	Quarter quartz element 125W - 250W	2.46" x 2.46" (62.5mm x 62.5mm)
WP-SQE	Square quartz element 150W - 1000W	4.86" x 4.86" (123.5mm x 123.5mm)
WP-QT	Quartz tungsten element 750W / 230V	0.39" dia. x 8.78" or x 18.62" (10mm dia. x 223mm or x 473mm)
WP-QH	Quartz halogen element 150W / 230V	0.39" dia. x 8.78" or x 18.62" (10mm dia. x 223mm or x 473mm)
Both WP-QT and WP-QH are available with R-7, leads, various lengths, terminals and wattage/voltage ratings.		
FAST IR	Modular units with instant on/off feature 8KW / 240V / 480V	12" x 12" (0.304m x 0.304m)
	Modular units with instant on/off feature 12KW / 240V / 480V	20" x 20" (0.508m x 0.508m)
Quartz tungsten and quartz halogen elements are available for FAST IR, depending on application.		

Many accessories are available for all ceramic and quartz heaters, including:

- Ceramic Terminal End Blocks
- Edison Screw Bulb Holders
- Mounting Bushings
- Mounting Clips
- Stainless Steel Busbars
- Ceramic Bulb Reflectors
- Reflectors and Grills
- Complete Platen Assemblies and Panel Heaters