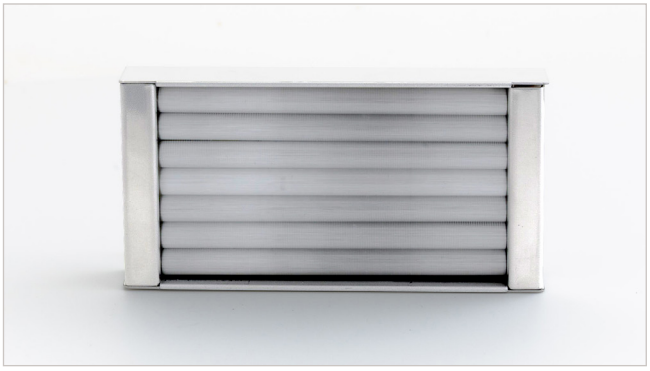
# **PHQE** - Pillared Half Quartz Element




## Pillared Half Quartz Element

Properties: Quartz infrared heating elements provide medium wave infrared radiation. They are favoured in industrial applications where a more rapid heater response is necessary, including systems with long heater off cycles. The standard quartz heating elements range consists of cassette style elements constructed with polished aluminium clad steel as standard, stainless steel is also an option. These emitters have peak emissions in the medium to long wavelength range.

## Technical specification

| | |
|---|---|
| Material | Polished aluminium clad steel body with an ironchrome aluminium resistance wire Pressure cast steatite pillar |
| Heater Voltage | 230 V *( standard )* |
| Useful wave-length range | 1.5 - 8 µm *( microns )* - Long wave |
| Dimensions | 123.5 x 62.5 x 59.0 mm |
| Average weight | 234 g |
| Assembly | Recommended radiation distance from heater is 100 - 200 mm |
| Element spacing | Minimum spacing between elements 5 mm |
| Average operating life | Up to 10,000 hrs depending on conditions |
| Standards | CE |
| Operating temperature | Ensure temperature of aluminium clad steel body does not exceed 500 °C |
| Note | Element should always be mounted so the quartz glass tubes are horizontal. |

## Standard PHQE range

| | Mean Surface Temperature °C | Max Power Density kW/m$^2$ |
|---|---|---|
| 200 W | 542 | 23.0 |
| 250 W | 593 | 28.7 |
| 325 W | 664 | 37.3 |
| 375 W | 690 | 45.9 |
| 500 W | 772 | 57.4 |

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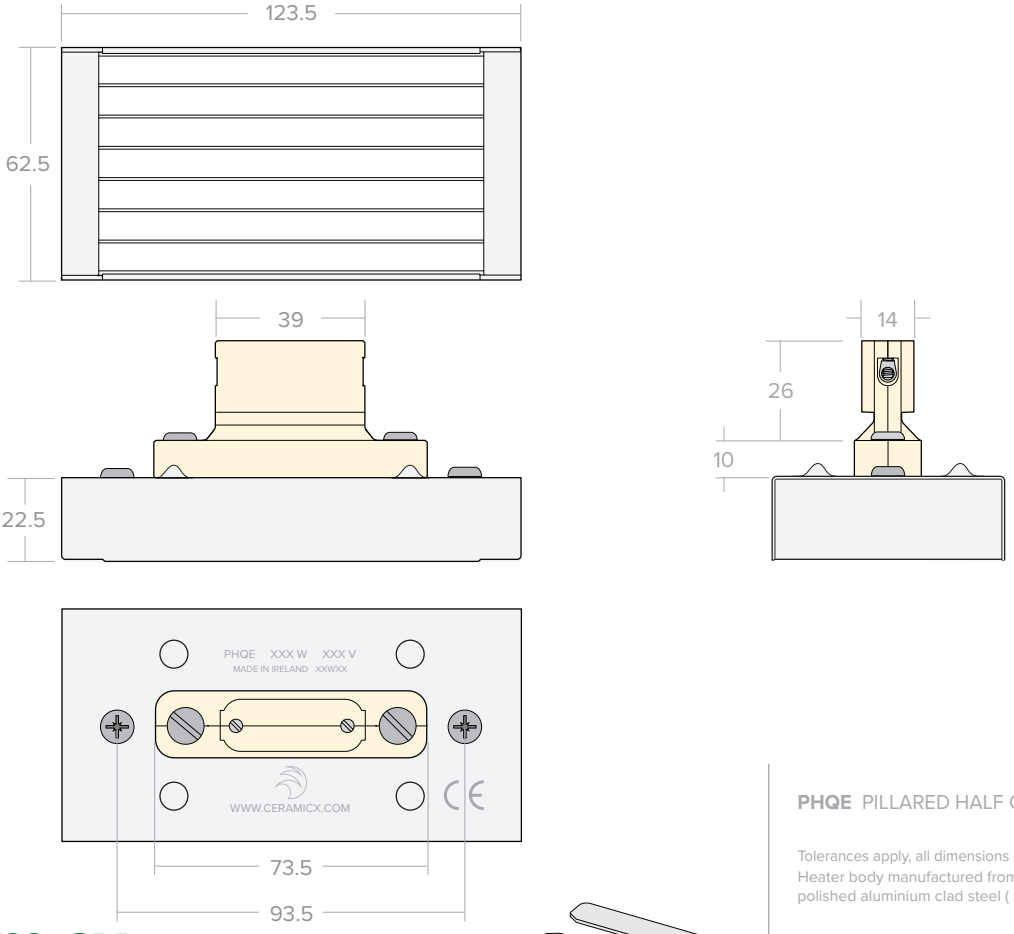


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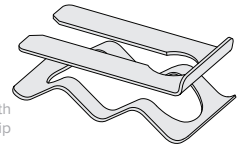


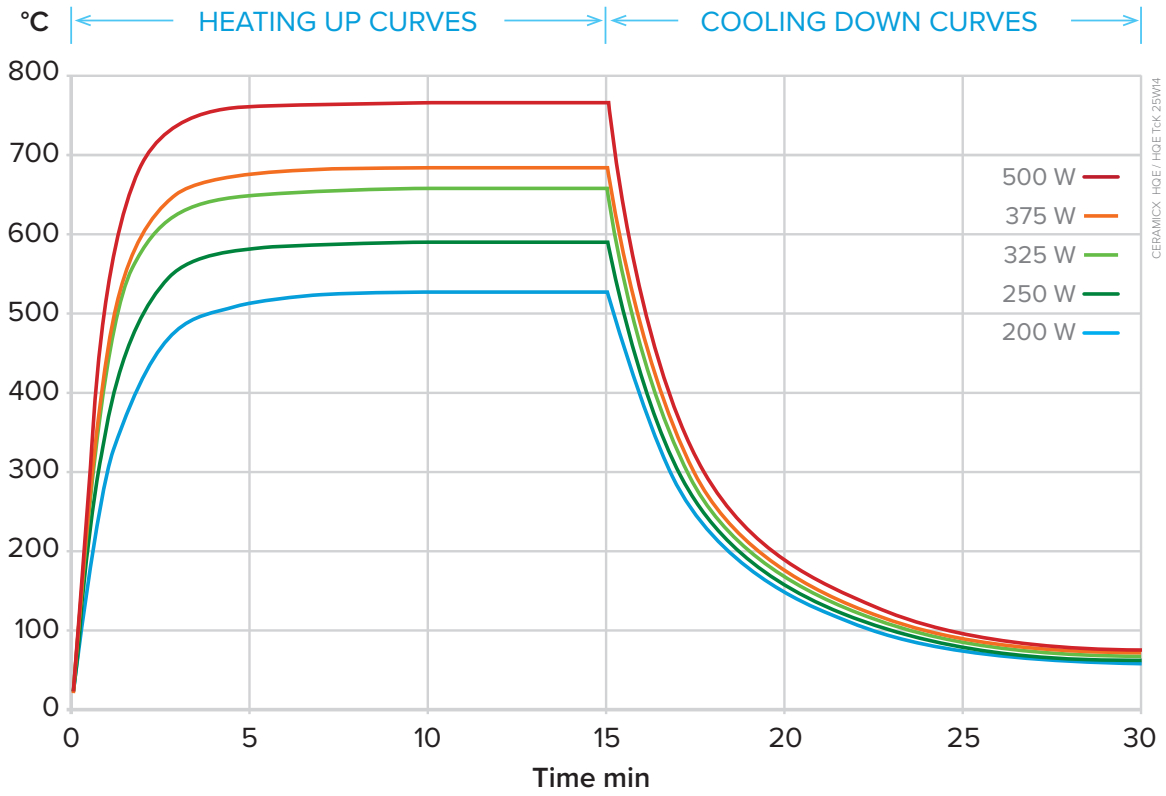
Element supplied with
Wave Spring and Clip

**PHQE** PILLARED HALF QUARTZ ELEMENT

Tolerances apply, all dimensions mm.
Heater body manufactured from 0.75 mm
polished aluminium clad steel ( 500°C max )

CE

25W49




**PHQE** Heat up and cool down curves showing average surface temperature measured with a thermal imaging camera set to an emissivity of 0.7