

# INFRARED ELEMENTS IN QUARTZ PFQE-K PILLARED FULL QUARTZ ELEMENT WITH THERMOCOUPLE



## Properties

The standard range of quartz infrared heating elements in stock are used in a wide range of industrial and engineering applications such as thermoforming, packaging, paint curing, printing, drying, gluing, sterilisation, roasting etc.

Quartz infrared heating elements are particularly effective in industrial applications where rapid heater response and/or zone controlled heating is required including systems with long heater off cycles. The pillared quartz elements have the same mounting fixture as ceramic heaters allowing easy replacement.



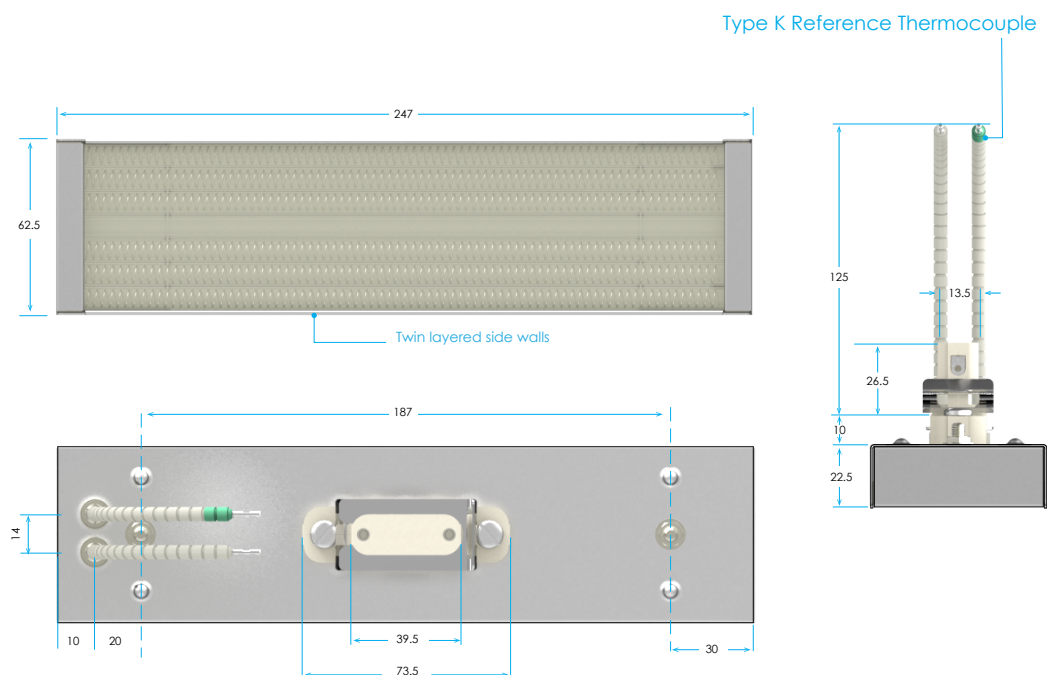
## Technical specification

|                          |                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material                 | Quartz glass tubes with a temperature resistance wire fitted in a cassette made of aluminised steel and a built-in thermocouple type K                                                                                     |
| Heater voltage           | 230 V                                                                                                                                                                                                                      |
| Operating temperature    | Max 500°C on the aluminised steel cover                                                                                                                                                                                    |
| Useful wave-length range | 1.5 to 8 µm (microns) medium to long wavelength                                                                                                                                                                            |
| Dimensions               | 247x62.5x59 mm                                                                                                                                                                                                             |
| Average weight           | 433 g                                                                                                                                                                                                                      |
| Electric connection      | Screw terminals in a pressed ceramic pillar                                                                                                                                                                                |
| Assembly                 | Mounting slot size oval 42x15 mm in reflector with max 1.5 mm thickness<br>Heaters should be mounted horizontally and perpendicular to movement (if any)<br>Recommended radiation distance from heater is 100 mm to 200 mm |
| Average operating life   | 5 000 hrs provided that warranty conditions are respected                                                                                                                                                                  |
| Standards                | CE                                                                                                                                                                                                                         |

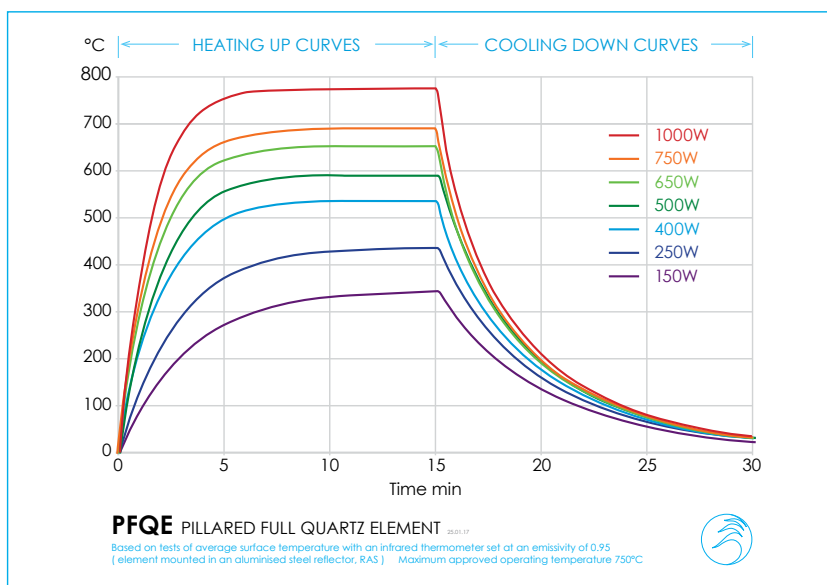
## Standard assortment

| Model<br>PFQE-K | Power<br>W | Mean surface<br>temperature<br>°C | Max power<br>density<br>kW/m <sup>2</sup> | Article<br>no |
|-----------------|------------|-----------------------------------|-------------------------------------------|---------------|
| PFQE-K 150      | 150        | 343                               | 9                                         | 3054230151    |
| PFQE-K 250      | 250        | 438                               | 15                                        | 3054230251    |
| PFQE-K 400      | 400        | 542                               | 24                                        | 3054230401    |
| PFQE-K 500      | 500        | 593                               | 30                                        | 3054230501    |
| PFQE-K 650      | 650        | 664                               | 39                                        | 3054230651    |
| PFQE-K 750      | 750        | 690                               | 45                                        | 3054230751    |
| PFQE-K 1000     | 1000       | 772                               | 60                                        | 3054231001    |

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## Heat up - Cool down curves



## Options

Cassette in stainless steel  
High temperature NPC cable and ceramic terminal blocks, different options  
Stainless steel bus bars 8x2x1000 mm article no 3005020305  
Other voltages, wattages and lead lengths available on request