

**Soneko Product Spotlight –
*IQH Quartz Tube***

A new medium wave infrared emitter, the IQH quartz tube from Soneko IR, Inc., has been developed for thermal processes that require medium wave infrared. The IQH has high heating rates in up to 50 watts/in. The unique, patented filament design (see Figure 1) allows fast heat-up times of 6 seconds, as compared with 30 seconds for conventional quartz tubes.



Figure 1- IQH Quartz Tube

The IQH tube produces mostly medium to long wavelength IR (refer to Figure 2), with a filament temperature from 700 to 1000 °C (973 to 1273 °K). The tubes can be banked together to produce a uniform area heat. The IQH tube is for horizontal burn applications only. The filament wire is an iron/chromium/aluminum alloy that has a nearly constant resistance from room to operating temperature. Less expensive distributed zero cross power controls can be used, which simplifies system CE approval.

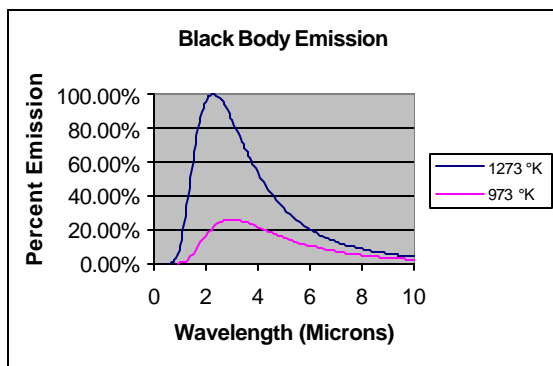


Figure 2 - Emission of IQH Quartz Tube

Product Availability

The IQH tubes are made custom for each application. Specify length (up to 82 inches), voltage, wattage, and dimensions. Table 1 shows the typical end configurations and dimensions to specify.

<p>Metal Tab</p>
<p>Single Hub</p>
<p>Double Hub</p>
<p>R7</p>

Table 1 - End Configurations

IQH Quartz Tube by Soneko IR

Applications

The IQH is ideal for a number of applications. The medium wave emission makes it ideal for drying water (see Figure 3). This includes applications such as drying water based inks, paints, and other coatings. The emission is also appropriate for heating many plastics, which typically have high absorption in the 2 – 3 micron range. The strong surface absorption makes it ideal for heating very thin plastic film.

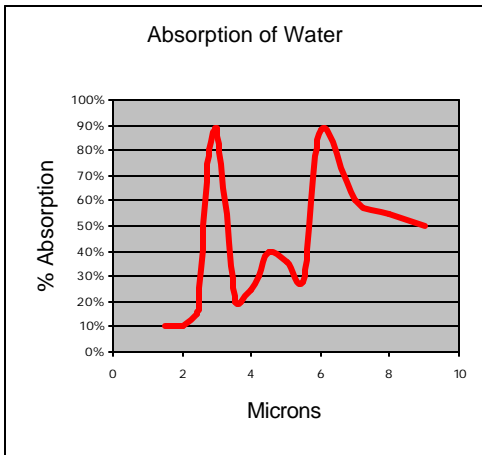


Figure 3 - Spectral Absorption of Water

Other lamps by Soneko, IR

Soneko, IR produces a full line of infrared emitters in short and medium wavelength emissions. Refer to Table 2.


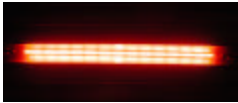

	Rapido™ 100 watt/inch, medium wave lamp
	Ruby Red short wave IR lamp
	Twin Tube Emitters with either IQH or Short Wave Filaments

Table 2 - Other Lamps by Soneko, IR

Contact Gene Barisonek at Soneko IR for your heating process requirements by phone (732-271-1710) or via email (gene@soneko.com).