

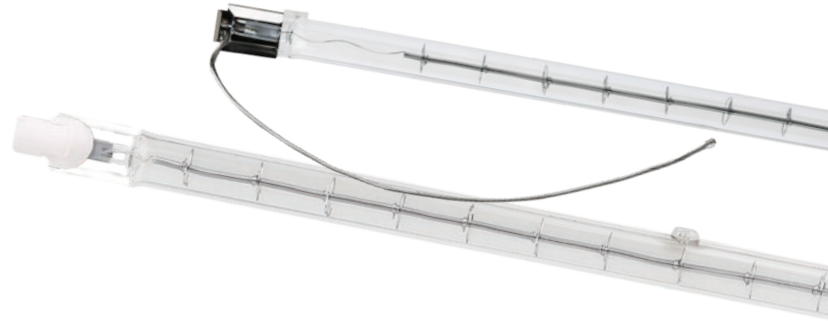
## SCIENTIFIC & MEDICAL APPLICATIONS

(QIH) IR lamps are an important component used in the Scientific and Medical industries. The controlled heating available with the IR heater lamps allow these lamps to be used to accurately and instantaneously control the temperature of the surrounding environment. USHIO provides an array of different power levels, different geometries and a wide range of color temperatures to fit your specific heating needs. The IR lamps are used in applications such as infant environment warming, heat therapy for aching muscles, spa and sauna heating and environmental control for laboratory experiments.



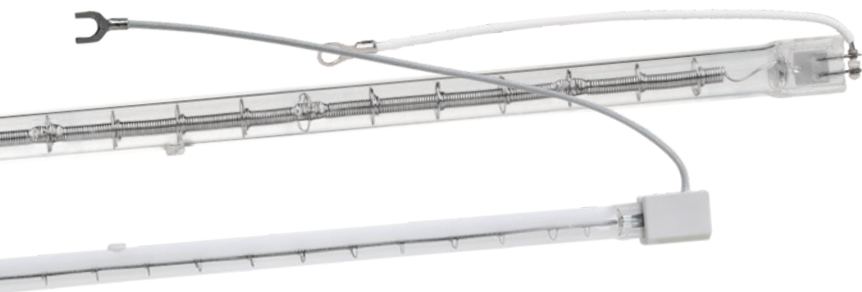
Volts (V)	Ordering Code	Lamp Description	Dimensions			Color Temp (K)	Avg Life (h)	Fig No	Lamp Notes
			MOL (mm)	LL (mm)	L1 (mm)				
<b>300 Watts</b>									
120	1001288	QIH120-300T/S	214.0	106	—	2450	6000	1	
<b>375 Watts</b>									
120	1001289	QIH120-375T/E	219.0	128	215	2500	6000	2	
120	1001290	QIH120-375T/S	223.0	128	—	2500	6000	1	
<b>500 Watts</b>									
120	1001293	QIH120-500/L	223.0	127	—	2500	5000	3	
120	1001294	QIH120-500/S	223.0	127	—	2500	5000	1	
120	1001297	QIH120-500T/E	220.0	127	216	2500	5000	2	
120	1001298	QIH120-500T/S	223.0	127	—	2500	5000	1	
120	1003201	QIH120-500T/S3	223.0	127	—	2500	5000	1	R
240	1001352	QIH240-500/D	227.5	165	—	2600	4000	5	IW, S
240	1001353	QIH240-500/ZD	227.5	165	—	2600	4000	5	IW, S
<b>600 Watts</b>									
104	1001285	QIH104-600/S	303.0	152	—	2500	6000	1	
<b>800 Watts</b>									
120	1001299	QIH120-800T/S	303.0	203	—	2500	6000	1	
<b>1000 Watts</b>									
240	1001317	QIH240-1000/S	351.0	254	—	2500	5000	1	
240	1001318	QIH240-1000/S2	303.0	254	—	2500	5000	1	
240	1001320	QIH240-1000/VB	485.0	272	370	2500	5000	4	
240	1001321	QIH240-1000/VD	357.5	272	—	2500	5000	5	IW, S
240	1001322	QIH240-1000/VZD	357.5	272	—	2500	5000	5	IW, S
240	1002250	QIH240-1000/VZH	357.5	272	—	2500	5000	5	IW, S
240	1001323	QIH240-1000/ZB	485.0	272	370	2500	5000	4	
240	1001324	QIH240-1000/ZD	357.5	272	—	2500	5000	5	IW, S
240	1003550	QIH240-1000R/VD4	531.0	440	—	—	5000	6	FT, IW, SS
240	1001325	QIH240-1000T/S	351.0	254	—	2500	5000	1	

## SCIENTIFIC & MEDICAL APPLICATIONS



Volts (V)	Ordering Code	Lamp Description	Dimensions			Color Temp (K)	Avg Life (h)	Fig No	Lamp Notes
			MOL (mm)	LL (mm)	L1 (mm)				
<b>1200 Watts</b>									
144	1001300	QIH144-1200/S	224.0	155	—	2500	5000	1	
144	1001301	QIH144-1200/S2	228.0	155	—	2500	5000	1	IW, R
<b>1300 Watts</b>									
230	1003236	QIH230-1300/ZL	453.0	358	—	2500	5000	3	IW, F
<b>1350 Watts</b>									
115	1001287	QIH115-1350/L	317.0	256	—	2750	3000	3	IW
220	1001311	QIH220-1350/L	317.0	256	—	2750	3000	3	IW
<b>1500 Watts</b>									
230	1003235	QIH230-1500/ZL	453.0	360	—	2500	5000	3	IW, FR
240	1001327	QIH240-1500/S	303.0	235	—	2500	5000	1	
<b>1600 Watts</b>									
144	1001302	QIH144-1600/S	229.0	150	—	2650	3000	1	IW, R
208	1001305	QIH208-1600/L	502.0	407	—	2500	5000	3	
208	1001306	QIH208-1600T/E	499.0	407	495	2400	6000	2	
208	1001307	QIH208-1600T/S	503.0	407	—	2400	6000	1	
240	1001328	QIH240-1600/E	499.0	407	495	2500	5000	2	
240	1001329	QIH240-1600/L2	502.0	407	—	2500	5000	3	
240	1001330	QIH240-1600/S	503.0	407	—	2500	5000	1	
240	1001331	QIH240-1600/S2	455.5	407	—	2500	3000	1	
240	1001333	QIH240-1600T/E	499.0	407	495	2500	5000	2	
240	1001334	QIH240-1600T/L	502.0	407	—	2500	5000	3	
240	1001335	QIH240-1600T/S	503.0	407	—	2500	5000	1	
277	1001356	QIH277-1600T/E	499.0	407	495	2500	5000	2	
277	1001357	QIH277-1600T/S	503.0	407	—	2500	5000	1	
<b>2000 Watts</b>									
240	1001339	QIH240-2000/S	303.0	248	—	2500	5000	1	
240	1001340	QIH240-2000/S2	351.0	254	—	2500	5000	1	

## ■ SCIENTIFIC & MEDICAL APPLICATIONS



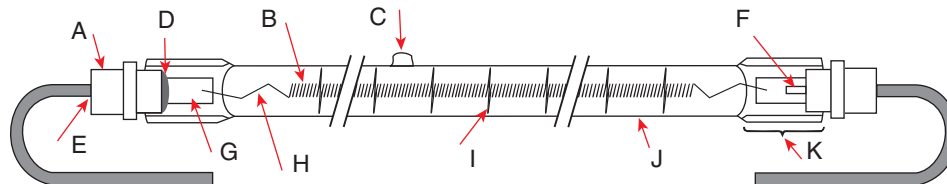
Volts (V)	Ordering Code	Lamp Description	Dimensions			Color Temp (K)	Avg Life (h)	Fig No	Lamp Notes
			MOL (mm)	LL (mm)	L1 (mm)				
<b>2000 Watts</b>									
240	1001341	QIH240-2000/VB	485.0	280	370	2500	5000	4	
240	1001343	QIH240-2000/VS	303.0	248	—	2500	5000	1	
240	1001344	QIH240-2000/VZD	357.0	280	—	2500	5000	5	IW, S
240	1003405	QIH240-2000/ZD4	354.0	290	—	2500	5000	5	IW
240	1003404	QIH240-2000/ZH5	354.0	290	—	2400	5000	5	IW
400	1001362	QIH400-2000/ZB	623.0	410	508	2500	5000	4	
<b>2200 Watts</b>									
250	1001354	QIH250-2200/C	303.0	248	—	2500	3000	7	R
<b>2500 Watts</b>									
480	1001373	QIH480-2500/S	732.0	635	—	2500	5000	1	
480	1001376	QIH480-2500/VS	732.0	635	—	2500	5000	1	
480	1003164	QIH480-2500/ZH	737.0	635	—	2500	5000	5	IW
480	1001381	QIH480-2500T/S	732.0	635	—	2500	5000	1	
575	1001399	QIH575-2500/S	732.0	635	—	2500	5000	1	
<b>3000 Watts</b>									
240	1001351	QIH240-3000/S	503.0	410	—	2500	5000	1	
<b>3200 Watts</b>									
384	1001360	QIH384-3200/S	456.0	406	—	2500	3000	1	
<b>3650 Watts</b>									
480	1001385	QIH480-3650/L	1062.0	965	—	2500	5000	3	
480	1001386	QIH480-3650/S	1059.0	965	—	2500	5000	1	
480	1001387	QIH480-3650T/L	1060.0	965	—	2500	5000	3	
<b>3800 Watts</b>									
570	1001393	QIH570-3800/S	1062.0	965	—	2450	5000	1	
<b>5000 Watts</b>									
600	1001402	QIH600-5000/S	732.0	638	—	2500	5000	1	
<b>6000 Watts</b>									
480	—	QIH480-6000*	300.0	248	—	3150	—	7	

\*Call to Inquire

# QIH REFERENCE GUIDE

## GENERAL PROPERTIES OF A QIH LAMP

- A Base
- B Filament
- C Filling Tip
- D Cement
- E Lead Wire
- F Outer Lead Rod
- G Molybdenum Foil
- H Inner Lead
- I Support
- J Bulb (Envelope)
- K Seal



## USHIO QIH PART NUMBER REFERENCE GUIDE

QIH240-1000  /

### Glass Type / Jacket Type

- T = Translucent Quartz
- C = Clear
- R = Ruby
- = No Indication; Clear Quartz

### Burning Position

- V = Vertical Burning
- = No Indication; Horizontal Burning

### Reflector

- Z = White Coated Reflector
- = No Indication; No Reflector

### Base Type

- B = Metal Clip Base
- E = R7s (Contact Type)
- S = Metal Sleeve w/Lead Wire
- C = Lead Wire; No Metal Sleeve
- L = Round Ceramic Base w/Lead Wire
- D = Flat Ceramic Base w/Lead Wire
- H = Flat Ceramic Base w/Lead Wire (no adhesive)

## USHIO QIH REFERENCE NOTES

### Dimensions

- MOL = Maximum Overall Length
- LL = Lighted Length (Filament Length) (Avg.)
- L1 = Contact to Contact Length

### Lamp Notes

- F = Faston Terminal
- FR = Faston Receptacle
- FT = Faston Tab
- IW = Insulated Wire
- R = Ring Tongue Terminal
- S = Spade Tongue Terminal / Standard Lead Wire Length: 145mm
- SS = Silicon Sleeve

