Infrared Heat Lamps

High-Powered heat sources utilizing Halogen technology

MAIN APPLICATIONS:

EPITAXIAL PROCESSES

- Approximately 90% of electricity is converted to radiated heat
- Shorter process cycle
- Precise control of wafer temperature
- Even heat distribution
- High reproducibility, low rejects
- Clean room packaging

PAINT DRYING

- Instant response time
- Rapid heat transfer
- Flexibility
- Energy efficient
- Improved production times
- Small space requirement
- Reduced contamination of substrate

OTHER APPLICATIONS:

- Bottle Blowing
- Heat Sterilization
- Cooking
- Food Warming
- Chemical Processe
- Drying of Lacquer/Printing Inks
- Paper Drying
- Zone Heating and Thermoforming



Quartz Infrared Heat Lamps

Watts	Bulb	Base	Fig. No.	Volts	Finish	Filament	LL (In.)	LL (mm)	M.O.L (In.)	M.O.L (mm)	Avg. Rated Life (hrs)	Diam. (mm)	Part. Number
375	T-3	R7s	2	120	Trans	C-8	5.0	127.0	8.6	217.6	5000	11.00	**QH375T3/7**
500	T-3	U	6	120	Trans	C-8	5.0	127.0	8.8	223.8	5000	11.00	**QH500T3**
500	T-3	R7S	2	120	Trans	C-8	5.0	127.0	8.6	217.6	5000	11.00	**QH500T3/7**
500	T-3	U	6	120	Clear	C-8	5.0	127.0	8.8	223.8	5000	11.00	**QH500T3/CL**
500	T-3	X	3	120	Clear	C-8	5.6	142.0	9.5	241.0	5000	11.00	**QH13169X**
500	T-3	Y	7	120	Clear	C-8	5.6	142.0	8.6	218.0	5000	11.00	**QH13169Y**
500	T-3	X	3	120	Reflector	C-8	5.6	142.0	9.5	241.0	5000	11.00	**QH13169X/98**
800	T-3	U	6	120	Trans	C-8	8.0	203.0	12.0	303.0	5000	11.00	**QH800T3**
1000	T-3	U	6	240	Trans	C-8	10.0	254.0	13.8	350.8	5000	11.00	**QH1000T3**
1000	T-3	U	6	240	Clear	C-8	10.0	254.0	13.8	350.8	5000	11.00	**QH1000T3/CL**
1000	T-3	X	3	235	Clear	C-8	10.7	272.0	14.6	370.0	5000	11.00	**QH13195X**
1000	T-3	Y	7	235	Clear	C-8	10.7	272.0	13.7	348.0	5000	11.00	**QH13195Y**
1000	T-3	Z	4	235	Reflector	C-8	10.7	272.0	14.0	357.5	5000	11.00	**QH13713Z/98**
1000	T-3	X	3	235	Clear	C-8	10.7	272.0	14.6	370.0	5000	11.00	**QH13713X**
1000	T-3	SK15	5	235	Reflector	C-8	10.7	272.0	14.1	360.0	5000	11.00	**QH13844Z/98**
1200	T-3	Y	1	144	Clear	C-8	6.1	155.0	9.0	228.0	5000	11.00	**QH135561Y/00**
1200	T-3	Y	1	144	Reflector	C-8	6.1	155.0	9.0	228.0	5000	11.00	**QH135561Y/98**

Infrared Heat Lamps

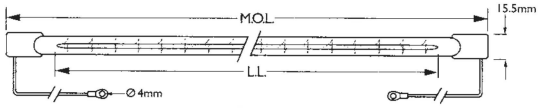


Fig. 1
(Y Base)
Leads Are Approximately 6"



Fig. 2
(R7s Base)

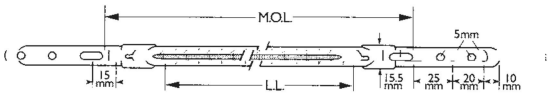


Fig. 3
(X Base)

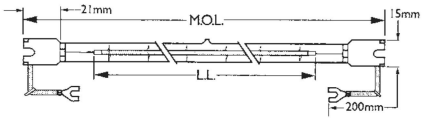


Fig. 4
(Z Base)

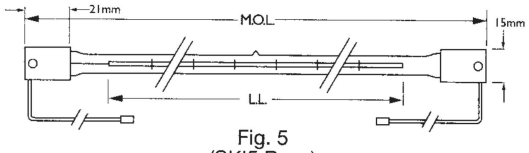


Fig. 5
(SKI5 Base)
13844Z/98—Lead is 15.7", 14103Z/98—Lead is 9"

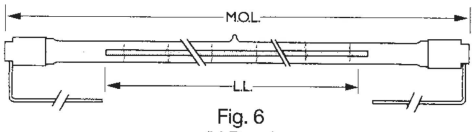


Fig. 6
(U Base)
Leads Are Approximately 6"

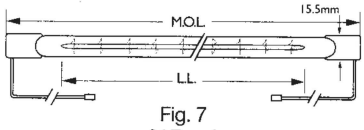


Fig. 7
(Y Base)
13169Y—Lead is 6.3". 13195Y—Lead is 7.8"

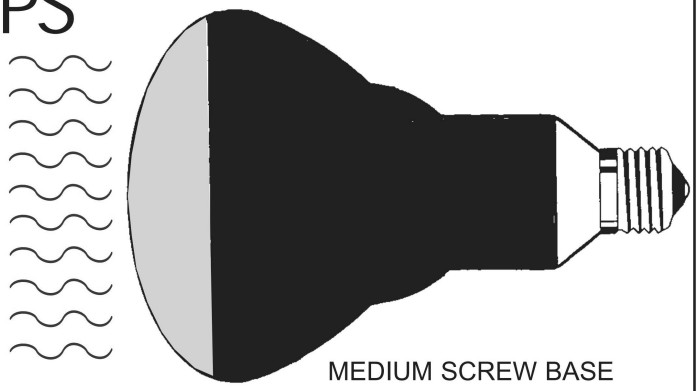
Quartz Infrared Heat Lamps

Watts	Bulb	Base	Fig. No.	Volts	Finish	Filament	LL (In.)	LL (mm)	M.O.L (In.)	M.O.L (mm)	Avg. Rated Life (hrs)	Diam. (mm)	Part. Number
1600	T-3	U	6	208	Trans	C-8	16.0	406.0	19.8	503.0	5000	11.00	**QH1600T3**
1600	T-3	U	6	240	Trans	C-8	16.0	406.0	19.8	503.0	5000	11.00	**QH1600T3**
1600	T-3	U	6	277	Trans	C-8	16.0	406.0	19.8	503.0	5000	11.00	**QH1600T3**
1600	T-3	R7S	2	240	Trans	C-8	16.0	406.0	19.6	498.5	5000	11.00	**QH1600T3/7**
1600	T-3	U	6	240	Clear	C-8	16.0	406.0	19.8	503.0	5000	11.00	**QH1600T3/CL**
1600	T-3	Y	1	144	Clear	C-8	6.1	155.0	9.0	228.0	5000	11.00	**QH13568Y/00**
1600	T-3	Y	1	144	Reflector	C-8	6.1	155.0	9.0	228.0	5000	11.00	**QH13568Y/98**
2000	T-3	X	3	235	Clear	C-8	11.1	282.0	14.6	370.0	5000	11.00	**QH13168X**
2000	T-3	Z	4	235	Reflector	C-8	11.0	280.0	14.0	357.5	5000	11.00	**QH13168Z/98**
2000	T-3	Y	1	235	Clear	C-8	11.0	280.0	14.0	357.5	5000	11.00	**QH13213Y/00**
2000	T-3	X	3	400	Reflector	C-8	16.2	410.0	20.0	508.0	5000	11.00	**QH13245X/98**
2000	T-3	X	3	400	Clear	C-8	16.2	410.0	20.0	508.0	5000	11.00	**QH13765X**
2000	T-3	SK15	5	235	Reflector	C-8	11.0	280.0	14.0	357.5	5000	11.00	**QH14103Z/98**
2000	T-3	U	6	240	Clear	C-8	10.0	254.0	12.0	303.0	5000	11.00	**QH2000T3/ICL/HT**
2000	T-3	U	6	240	Clear	C-8	10.0	254.0	12.0	303.0	5000	11.00	**QH2000T3/ICL/HT/UBO**
2500	T-3	U	6	480	Trans	C-8	25.0	635.0	28.8	731.0	5000	11.00	**QH2500T3**
2500	T-3	R7S	2	480	Trans	C-8	25.0	635.0	28.7	730.0	5000	11.00	**QH2500T3/7**
2500	T-3	U	6	480	Trans	C-8	25.0	635.0	28.8	731.0	5000	11.00	**QH2500T3/CL**
3000	T-3	X	3	400	Clear	C-8	27.6	700.0	31.4	798.0	5000	11.00	**QH13230X**
3000	T-3	X	3	400	Reflector	C-8	27.6	700.0	31.4	798.0	5000	11.00	**QH13230X/98**
3000	T-3	U	6	235	HeLen	C-8	16.2	413.0	19.8	504.0	7000	11.00	**QH3000T3/HeLen**

BR-40 I.R. HEAT LAMPS

- 90% of energy is transmitted as infrared
- Lamp lifetime 5000 hours
- Instant, accurately controllable radiant heat
- Food warmer
- Drying and curing

AVAILABLE IN TUFF-COAT®
(ADD "TF" TO PART NUMBER)



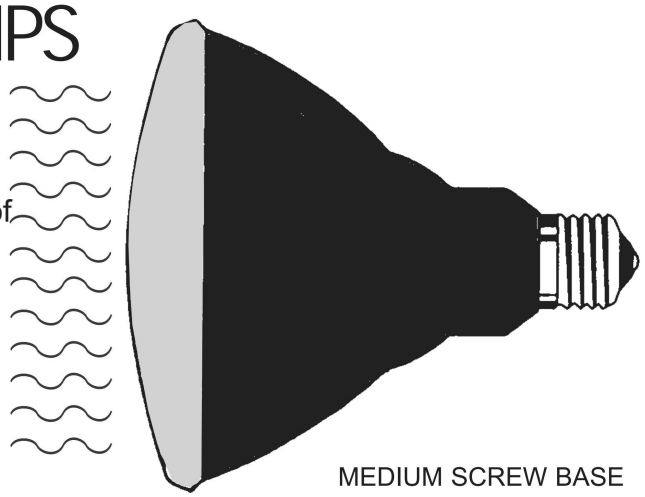
MEDIUM SCREW BASE

LINE NO.	VOLTS	WATTS	LIFE HOURS	GLASS	PART NUMBER
1	120.0	250	5,000	CLEAR	250BR40/1
2	120.0	250	5,000	RUBY RED	250BR40/10/RED
3					
4	120.0	375	5,000	CLEAR	375BR40/1
5	120.0	375	5,000	RUBY RED	375BR40/10/RED
6					
7	230.0	250	5,000	RUBY RED	250BR40/R/230V

PAR-38 I.R. HEAT LAMPS

- 90% of energy is transmitted as infrared
- Instant, accurately controllable radiant heat
- Special filament design for a concentrated beam
- High IR-A radiation level for deeper penetration of muscles and veins.
- Medical / Industrial
- Drying and curing

AVAILABLE IN TUFF-COAT®
(ADD "TF" TO PART NUMBER)



MEDIUM SCREW BASE

LINE NO.	VOLTS	WATTS	LIFE HOURS	GLASS	PART NUMBER
8	120.0	175	5,000	CLEAR	175PAR38/IR/CL
9	120.0	175	5,000	RUBY RED	175PAR38/IR/RED
10					
11	230.0	175	5,000	CLEAR	175PAR38/IR/CL-230V
12	230.0	175	5,000	RUBY RED	175PAR38/IR/RED-230V