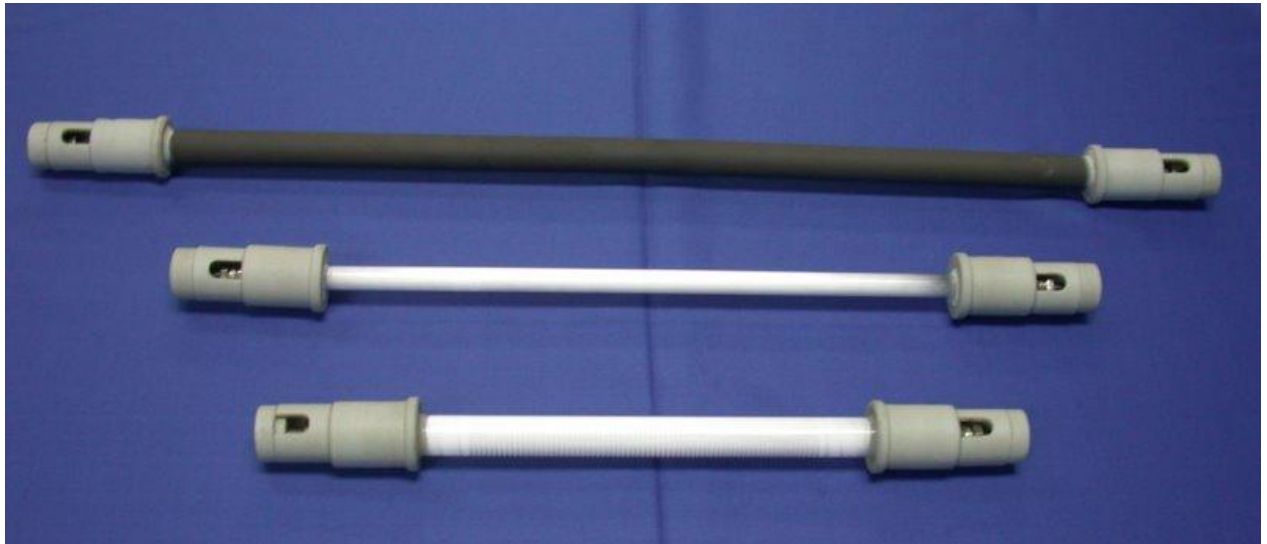


Infrared Radiant Heaters



Application

Thermoforming, Vacuum, Electroplating Equipment, Printing, Ovens, Laboratory Equipment etc.

Material of sheath and operating temperature

Material	Application	Standard
Quartz	Acid and alkaline resistance	Up to 870 °C
Black Ceramic Tubular	Regular	Up to 350 °C

Typical maximum watt density and capacity

Quartz: 5 w/cm², Maximum 3 KW/220V

Black Ceramic Tubular: 4 w/cm², Maximum 2 KW/220V

Standard Specification

DIN (mm)		Ø10	Ø12	Ø16	Ø20
A (mm)	B (mm)	瓦特數	瓦特數	瓦特數	瓦特數
200	336	200	300	400	450
300	436	300	450	550	600
400	536	400	600	700	800
500	636	450	750	850	1000
600	736	500	850	1000	1200
800	936	550	1100	1300	1500
1000	1136	-	-	1700	1900
1200	1336	-	-	2000	2300
1500	1636	-	-	-	2400
1600	1736	-	-	-	2500
1800	1936	-	-	-	2800

※Special length and watt are available.

Termination type

With SUS304 thread connection M5.

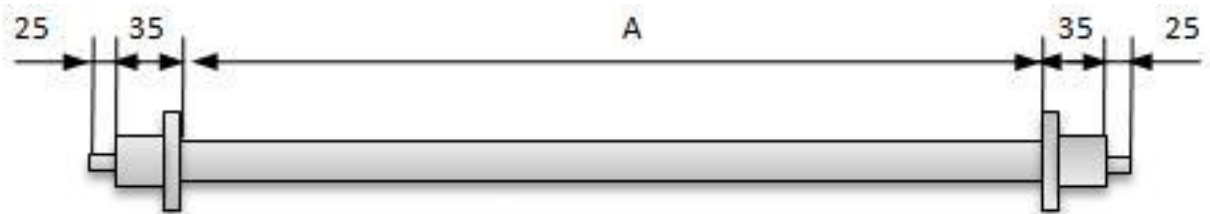
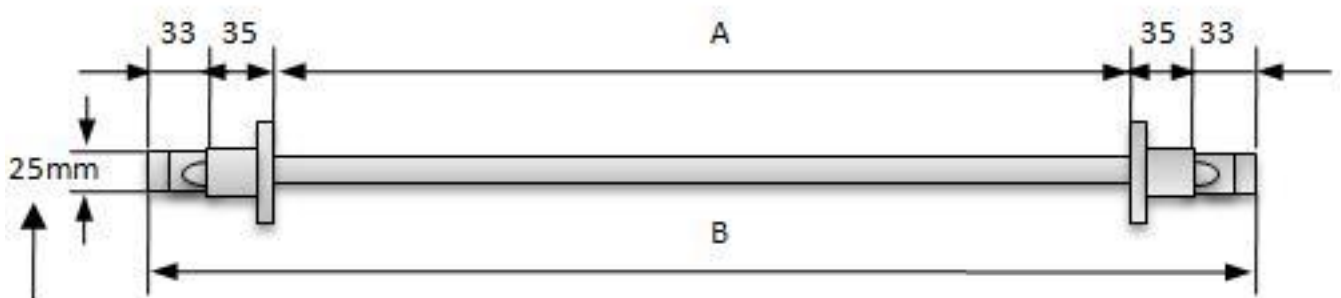


Fig. A Standard Termination

Unit : mm

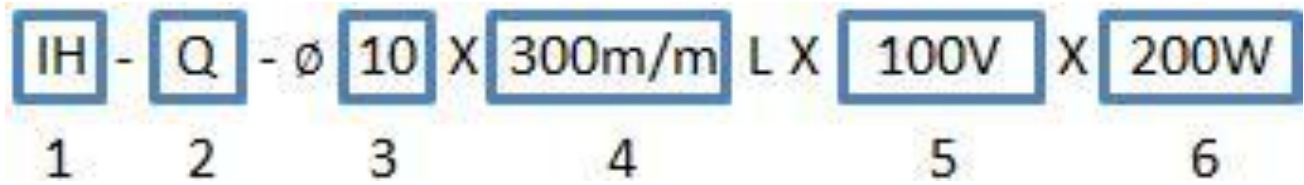


O.D. Ceramic End Cap

Fig. B Quick Connect Termination

Unit : mm

Order information

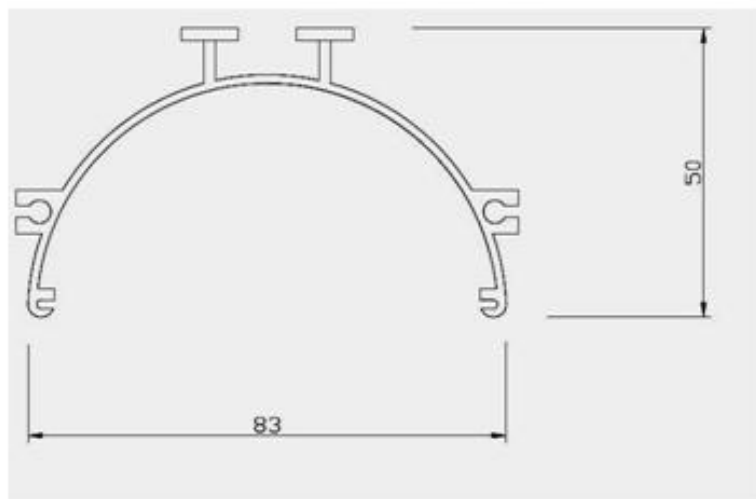


- (1). Infrared Heater.
(2). Q=Quartz, C=Ceramic tubular.
(3). Quartz tube diameter ∅ 10, ∅ 12, ∅ 16, ∅ 20;
Ceramic tube diameter ∅ 16, ∅ 20 °
(4). Tube length (heating part).
(5). Voltage.
(6). Wattage.

Remark :

If possible, when you want to order the heater please indicating working temperature and circumstance in order to design proper products and keep long life for use.

Reflector (optional)



Technical Information

(1). How to calculate required wattage :

$$Kw = \frac{M \times Cs \times \Delta T}{864 \times t(h)} (1 + H \text{ loss})$$

M : Weight of heating object. t(h) : Time(hour).

Cs : Heating rate. 864 : Rate of K cal. change to K watt.

ΔT : Temperature difference. H loss : Heating loss (about 20%~30%).

(2). Various material character and heating rate sheet :

Material	Weight rate (kg/dm ²)	Heating rate (KCal/Kg°C)	Melted temp.°C
Water	1.00	1.000	0
Iron,cast	7.20	0.120	1176
Inconel 600	8.41	0.126	1371
Incoloy 800	8.00	0.130	1371
Gold	19.32	0.032	1062
Silver	10.49	0.057	960
Brass-yellow	8.47	0.096	932
Copper	8.91	0.095	1082
Steel	7.86	0.122	1515
Stainless steel 304	7.91	0.120	1398
Stainless steel 430	7.61	0.110	1454
Lead liquid	10.71	0.037	
Lead solid	11.34	0.032	326
Magnesium	1.74	0.270	650
MgO (Compacted)	3.10	0.209	
Nickel 200	8.88	0.120	1435
Nichrome 80/20	8.35	0.110	1398
Tin liquid	7.00	0.065	
Tin solid	7.27	0.052	232

Solder(Sn-Pb5%)	8.92	0.051	182
Aluminum	2.71	0.240	643
Cement board	1.94	0.250	
Brickwork	2.10	0.220	
Asphalt	2.10	0.400	
Molybdenum	10.21	0.071	2621
Mica	2.82	0.210	
Paraffin	0.88	0.690	56
Steatite	2.60	0.200	
Teflon	2.15	0.250	
Platinum	21.45	0.035	1773
Phenolic	1.27	0.400	
Monel 400	8.82	0.110	1315
Tantalum	16.60	0.035	2996
Tungsten	19.30	0.040	3410
Zinc	7.17	0.096	419
Titanium	4.53	0.130	1668
Sulfur	2.07	0.175	119
Zirconium	6.47	0.067	1848

Contact

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