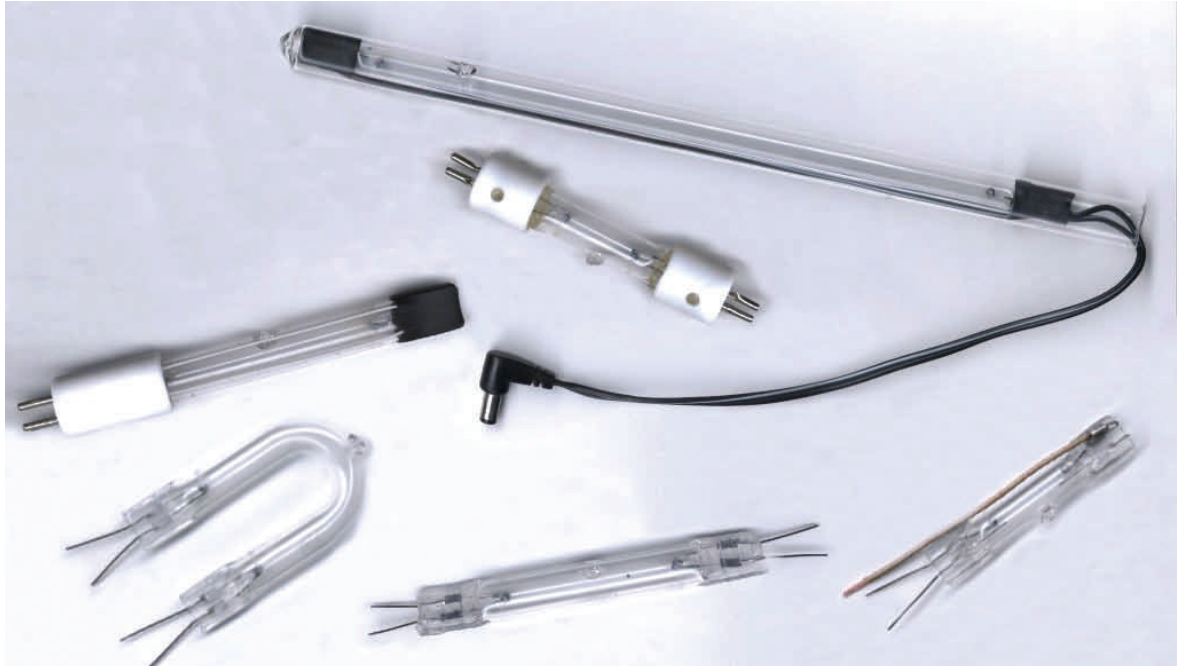




Terme Quartz

Internazionale



Catalog Quartz Lamps

1/2007 Ver1.0

Low pressure lamps
High pressure lamps
Infrared lamps

Terme Quartz Internazionale s.a.s

Via Pantana 267
I-87020 Aquappesa CS
P.iva/VAT 02021890781
Tel. ++39-982-94296
Fax. ++39-982-94691
E-Mail tqint@libero.it

TQI Quartz LAMPS

Terme Quartz Internazionale

An important thing to know is that Ultraviolet is not a single entity, but is a wide band of wavelengths.

The chief natural source of UV is the sun. In fact, about 9% of all energy emitted by the sun is UV, it differs from the light of the sun only in that its wavelengths are too short to be seen by the human eye.

Ultraviolet radiation is part of the electromagnetic spectrum and it is included between the visible region and that of the X rays.

Ultraviolet radiation applications are very widespread and varied, it is used in many areas ranging from the medical and biotechnology fields to the automotive and electronics industries.

The different band of wave length of the ultraviolet spectrum show considerable variations, for this reasons it is divided in three regions:

- **UV-A 400-320 nm Long waves**
- **UV-B 320-290 nm Medium wave**
- **UV-C 290-180 nm Short waves**

TQI Quartz lamps are divided in:

- ***Low pressure lamps***
 - ***Ozon lamps*** **Page 3-15**
 - ***Germicidal lamps*** **Page 16-26**
 - ***Double-Tube Germicidal lamps*** **Page 27-28**
- ***High pressure lamps;***
 - ***Lamps for special purposes*** **Page 29-31**
- ***Infrared lamps;*** **Page 32-37**
- ***Quartz Tubes;*** **Page 38-40**

TQI OZONE QUARTZ LAMPS

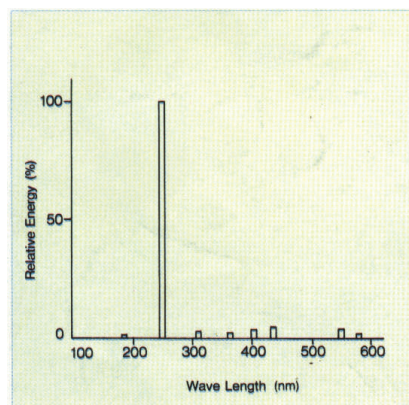
Terme Quartz Internazionale

TQI ozone low-pressure mercury lamps emit part of their radiated energy under a shortwave UV at 184.9nm wich produce ozone.

Application:

The ozone lamps are used in sterilization of chirurgical equipment, purification of water and of swimming pools, sterilization of sewage, treatment of industrial wastes, Air pollution, to eliminate odours, for surface treatmens, bleaching of papers, bleaching of textile fibers, purification of mineral oils.

<i>Type Lamps</i>	Page
O3S	4
O3DS	5
O3DS-1	6
O3DAS	7
O3DA	8
O3DP	9
O3DP-P1	10
O3DP-P2	11
O3DP-P4	12
O3DP-P41	13
O3UA	14
O3UP	15

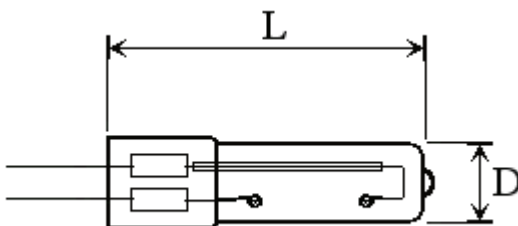


Spectral Energy distribution

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3S



Data Sheet								
Code	Wattage W	Lamp Curent mA	Lamp Voltage V	UV Output W	μWcmq	Length L mm	Diameter D mm	Average Life Hrs
O3S	3	50	6	0,5	5,4	40	10	3.000

Terme Quartz UV rays lamps are produced with very pure quartz glass, these low- pressure mercury lamps emit part of their radiated energy at 184.9 nm which produce ozone.

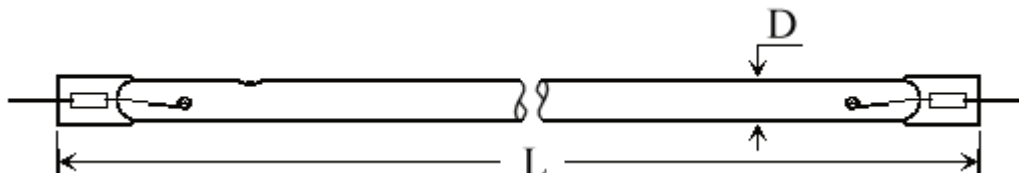
The ozone lamps have many uses: sterilization of chirurgical equipments, purification of water, sterilization of sewage, treatment of industrial wastes and in particular our lamp type O3S is employed in equipments for oxygen– ozone therapy.

Warning: uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3DS



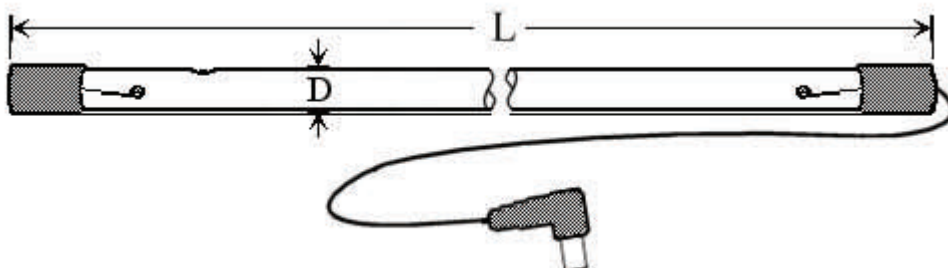
Data Sheet							
Code	Wattage W	Lamp Curent A	UV Output W	Length L mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3DSW10D10L170	10	0.17	1.20	170	10	0.6	7000
O3DSW12D10L240	12	0.17	2.00	240	10	0.8	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3DS-1



Data Sheet

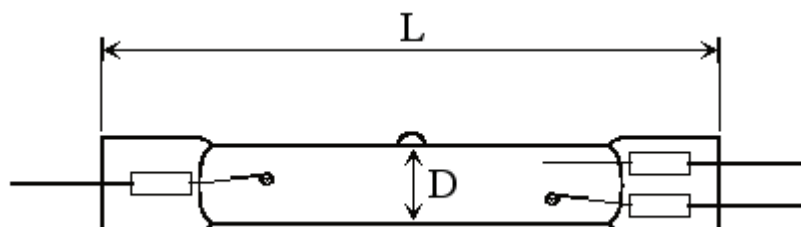
Code	Wattage W	Lamp Curent A	UV Output W	Length L mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3DSW10D10L170-1	10	0.17	1.20	170	10	0.6	7000
O3DSW12D10L240-1	12	0.17	2.00	240	10	0.8	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3DAS



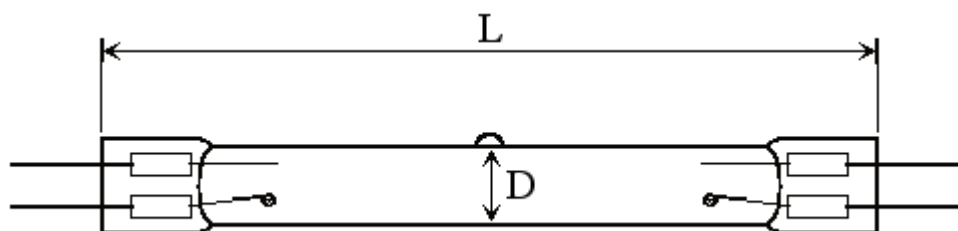
Data Sheet						
Code	Wattage W	Lamp Curent A	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
O3DASW4D12L70	4	0,17	0,70	70	12	7000
O3DASW5D10L80	5	0,17	0,80	80	10	7000
O3DASW6D10L100	6	0,17	0,95	100	10	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3DA



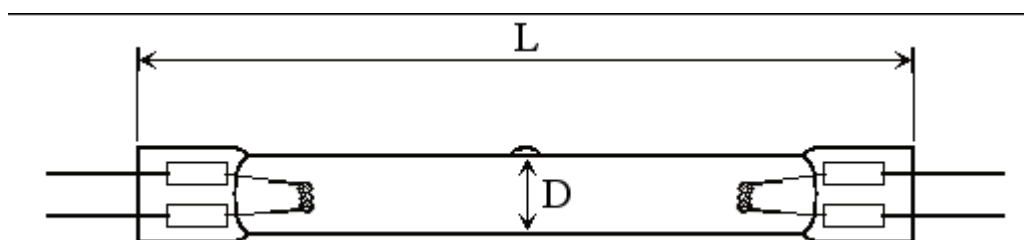
Data Sheet

Code	Wattage W	Lamp Curent A	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
O3DAW4D12L70	4	0,17	0.70	70	12	7000
O3DAW5D10L80	5	0,17	0.80	80	10	7000
O3DAW6D10L100	6	0,17	0.95	100	10	7000
O3DAW8D10L120	8	0,17	1.20	120	10	7000
O3DAW10D10L150	10	0,17	1.35	150	10	7000
O3DAW10D10L200	10	0,17	2.50	200	10	7000

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3DP



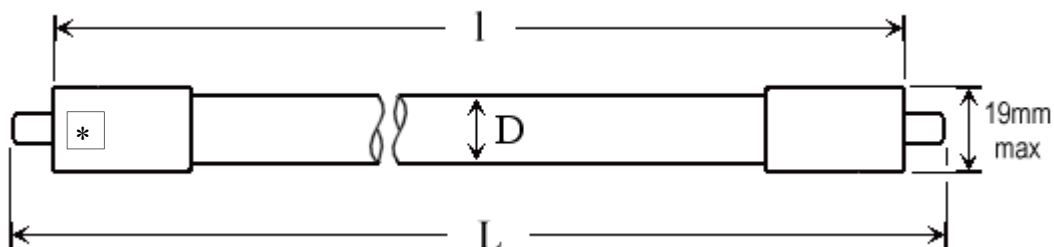
Data Sheet							
Code	Wattage W	Lamp Curent A	UV Output W	Length L mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3DPW8D13L106	8	0.17	1.16	106	13	0.4	7000
O3DPW16D13L200	16	0.17	2.50	200	13	0.8	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3DP-P1



* Ceramic or PTFE Lamp bases

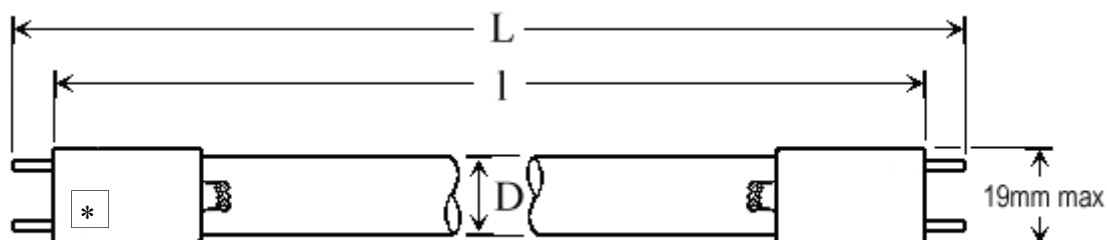
Data Sheet									
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L mm	Length l mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3DPW36D15L350P1	36	0.17	55	3.00	350	334	15	1.4	7000
O3DPW39D15L470P1	39	0.35	60	4.50	470	454	15	2.0	7000
O3DPW39D15L850P1	39	0.45	80	9.20	850	834	15	3.7	7000
O3DPW65D15L1553P1	65	0.42	238	25.60	1553	1537	15	7.2	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3DP-P2



* Ceramic or PTFE Lamp bases

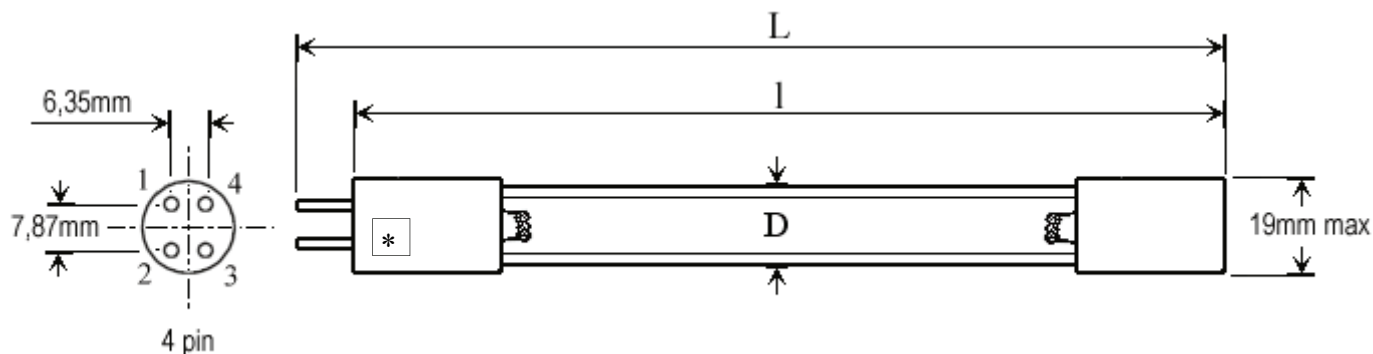
Data Sheet									
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L mm	Length l mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3DPW8D13L149P2	8	0.17	42	1.16	149	135	13	0.5	7000
O3DPW10D13L225P2	10	0.17	38	2.50	225	211	13	0.8	7000
O3DPW12D15L304 P2	12	0.17	55	3.00	304	287	15	1.2	7000
O3DPW18D15L450 P2	18	0.35	60	4.50	450	436	15	2.0	7000
O3DPW39D15L850 P2	39	0.40	80	9.20	850	836	15	3.7	7000
O3DPW65D15L1553 P2	65	0.42	238	25.60	1553	1539	15	7.2	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3DP-P4



Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

* Ceramic or PTFE Lamp bases

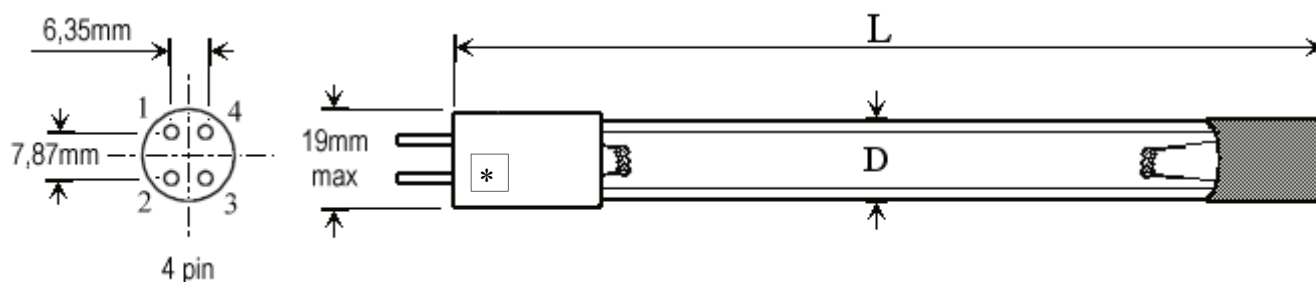
Data Sheet									
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L mm	Length l mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3DPW8D13L142P4	8	0.17	42	1.16	142	135	13	0.5	7000
O3DPW10D13L294P4	10	0.17	55	1.20	294	287	13	1.2	7000
O3DPW18D15L443P4	18	0.35	60	4.50	443	436	15	2.0	7000
O3DPW39D15L850P4	39	0.40	80	9.00	850	843	15	3.7	7000
O3DPW65D15L1553P4	65	0.42	238	25.60	1553	1546	15	7.2	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3DP-P41



Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

* Ceramic or PTFE Lamp bases

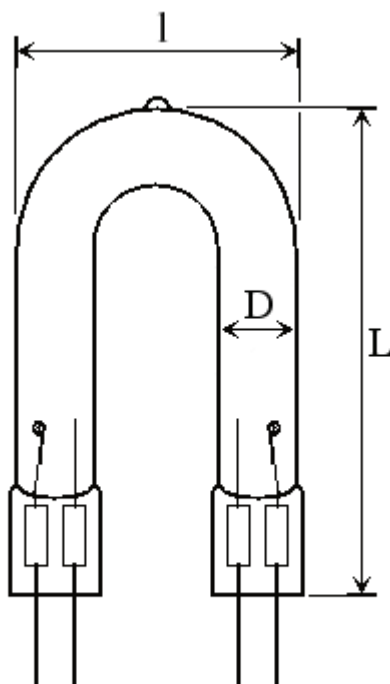
Data Sheet									
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L mm	Length l mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3DPW10D13L215P41	6	0.17	55	1.20	215	208	13	0.6	7000
O3DPW10D15L215P41	6	0.17	55	1.20	215	208	15	0.7	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3UA



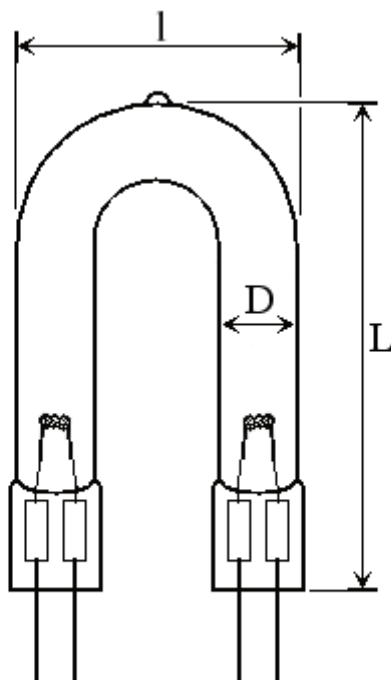
Data Sheet								
Code	Wattage W	Lamp Curent A	UV Output W	Length L mm	Length I mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3UAW5D10L45	5	0.25	1.50	45	40	10	0.1	7000
O3UAW6D10L70	6	0.25	2.00	70	40	10	0.2	7000
O3UAW12D15L80	12	0,30	6,00	80	65	15	0.3	7000
O3UAW12D15L125	12	0,36	8,50	125	65	15	0.4	7000
O3UAW16D15L430	16	0,42	13,10	430	65	15	2.0	7000
O3UAW60D15L815	60	0,45	25,50	815	65	15	3.7	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI OZONE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: O3UP



Data Sheet								
Code	Wattage W	Lamp Curent A	UV Output W	Length L mm	Length I mm	Diameter D mm	Ozone Output g/h	Average Life Hrs
O3UPW5D10L45	5	0,17	1,50	45	38	10	0.1	7000
O3UPW6D10L70	6	0,17	2,00	70	38	10	0.2	7000
O3UPW8D10L150	8	0,17	8,50	150	38	10	0.5	7000
O3UPW60D13L815	60	0,42	20,00	815	46	13	3.5	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations ha-
ve to use adequate protections.

TQI GERMICIDAL QUARTZ LAMPS

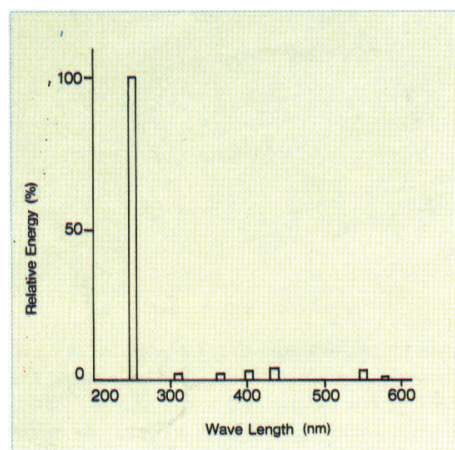
Terme Quartz Internazionale

The TQI germicidal lamps are produced with very pure quartz glass. The special properties of this material allow to the TQI lamps the higher reflection of uv rays.

Application: the TQI germicidal lamps emit uv rays at 254nm and are employed for killing and deactivating bacterium, virus and other primitive organisms.

They are mainly used for water sterilization, air treatments, food work surfaces treatments, food containers sterilization ,EPROM blanking.

<i>Type Lamps</i>	Page
GLM	17
GLDP	18
GLDP-P1	19
GLDP-P2	20
GLDP-P4	21
GLDP-P41	22
GLDS	23
GLDS-1	24
GLUA	25
GLUP	26
GLBTA-P4 BI-TUBE	27
GLBTS-P4 BI-TUBE	28

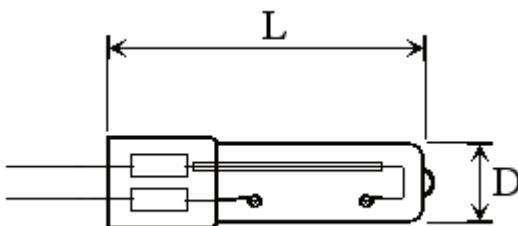


Spectral Energy distribution

TQI GERMICIDAL QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: GLM



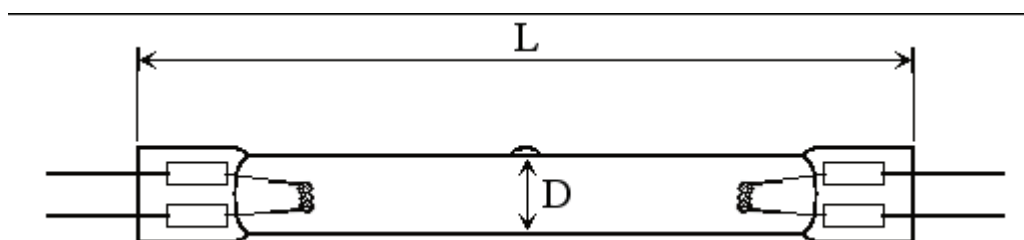
Data Sheet								
Code	Wattage W	Lamp Curent mA	Lamp Voltage V	UV Output W	μWcmq	Length L mm	Diameter D mm	Average Life Hrs
GLM	3	50	6	0,5	5,4	40	10	3.000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI GERMICIDAL QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: GLDP



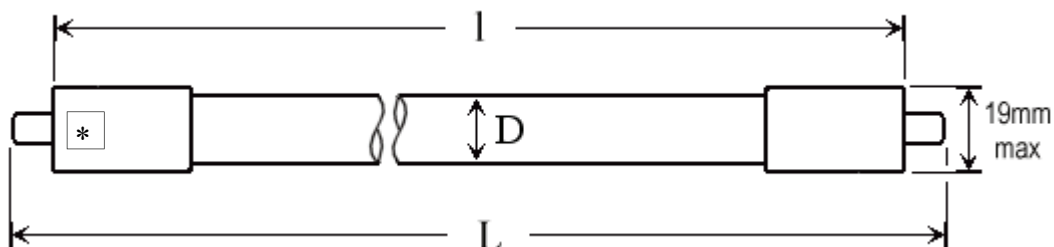
Data Sheet						
Code	Wattage W	Lamp Current A	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
GLDPW8D13L106	8	0.17	1.16	106	13	7000
GLDPW16D13L200	16	0.17	2.50	200	13	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI GERMICIDAL QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: GLDP-P1



* Ceramic or PTFE Lamp bases

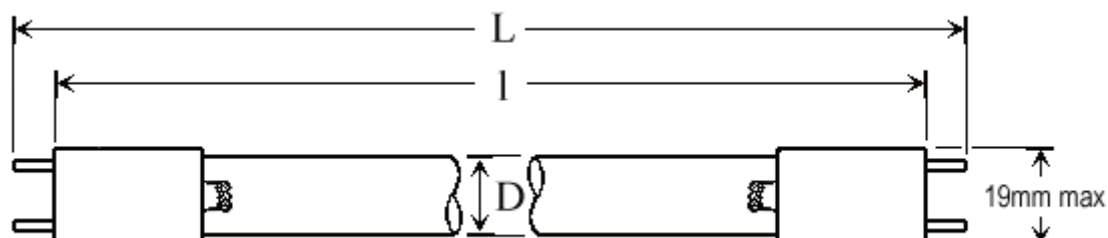
Data Sheet								
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L mm	Length l mm	Diameter D mm	Average Life Hrs
GLDPW16D15L350-P1	16	0,17	55	3,00	350	334	15	7000
GLDPW39D15L470-P1	39	0,35	60	4,50	470	454	15	7000
GLDPW39D15L850-P1	39	0,45	80	9,20	850	834	15	7000
GLDPW65D15L1553-P1	65	0,42	238	25,60	1553	1537	15	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI GERMICIDAL QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: GLDP-P2



* Ceramic or PTFE Lamp bases

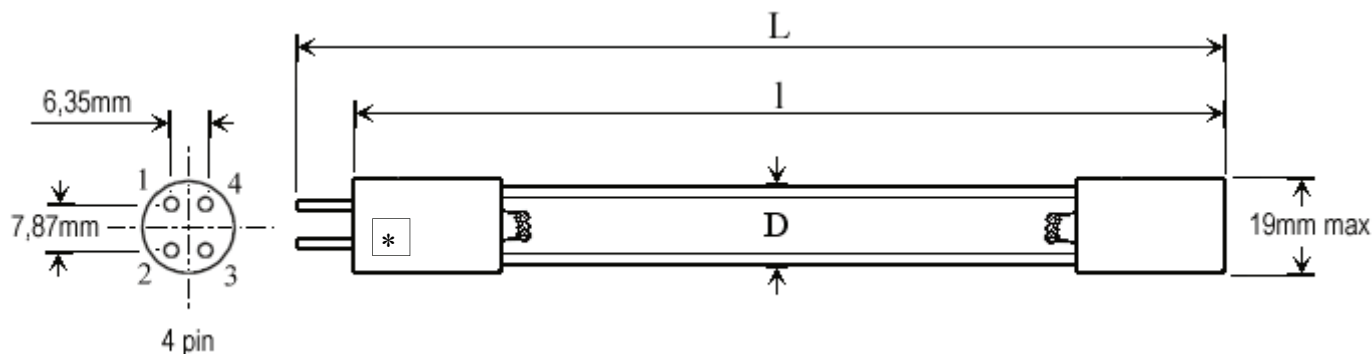
Data Sheet								
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L mm	Length l mm	Diameter D mm	Average Life Hrs
GLDPW8D13L149-P2	8	0,17	42	1,16	149	135	13	7000
GLDPW10D13L225-P2	10	0,17	38	2,50	225	211	13	7000
GLDPW12D15L290-P2	12	0,17	55	3,00	290	276	15	7000
GLDPW18D15L470-P2	18	0,35	60	4,50	470	456	15	7000
GLDPW39D15L850-P2	39	0,40	80	9,20	850	836	15	7000
GLDPW65D15L1553-P2	65	0,42	238	25,60	1553	1539	15	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI GERMICIDAL QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: GLDP-P4



Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

* Ceramic or PTFE Lamp bases

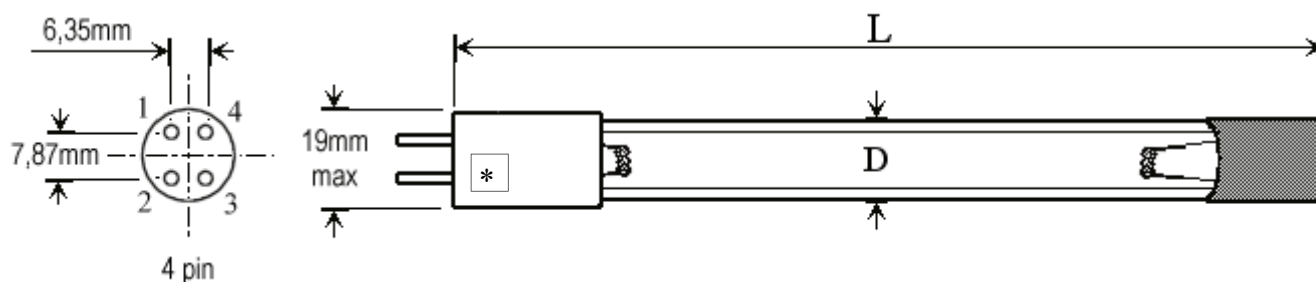
Data Sheet								
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L mm	Length l mm	Diameter D mm	Average Life Hrs
GLDPW8D13L142-P4	8	0,17	42	1,16	142	135	13	7000
GLDPW10D13L215-P4	10	0,17	55	1,20	215	208	13	7000
GLDPW18D15L470-P4	18	0,35	60	4,50	470	456	15	7000
GLDPW39D15L850-P4	39	0,40	80	9,20	850	843	15	7000
GLDPW65D15L1553-P4	65	0,42	238	25,60	1553	1546	15	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI GERMICIDAL QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: GLDP-P41



Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

* Ceramic or PTFE Lamp bases

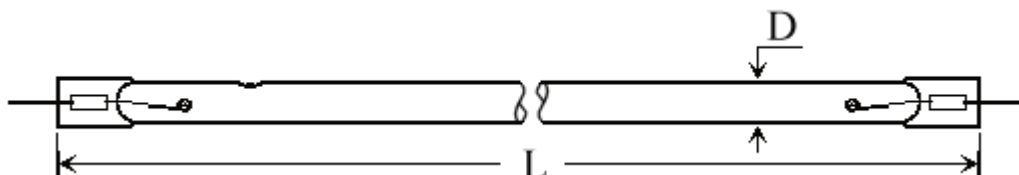
Data Sheet								
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L mm	Length l mm	Diameter D mm	Average Life Hrs
GLDPW8D13L142-P41	8	0.17	42	1.16	142	135	13	7000
GLDPW10D13L215-P41	10	0.17	55	1.20	215	208	13	7000
GLDPW18D15L470-P41	18	0.35	60	4.50	470	456	15	7000
GLDPW39D15L850-P41	39	0.40	80	9.20	850	843	15	7000
GLDPW65D15L1553-P41	65	0.42	238	25.60	1553	1546	15	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI GERMICIDAL QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: GLDS



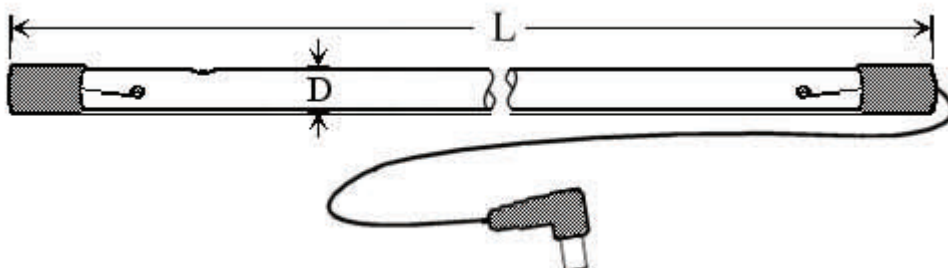
Data Sheet						
Code	Wattage W	Lamp Curent A	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
GLDSW10D10L170	10	0,17	1,20	170	10	7000
GLDSW12D10L240	12	0,17	2,00	240	10	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI GERMICIDAL QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: GLDS-1



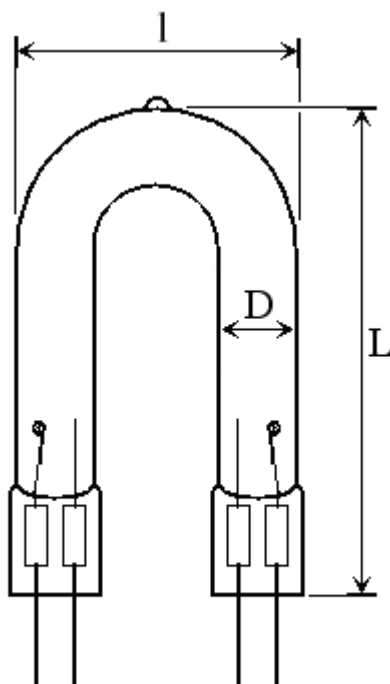
Data Sheet							
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
GLDSW10D10L170-1	10	0,17	220	1,20	170	10	7000
GLDSW12D10L240-1	12	0,17	220	2,00	240	10	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI GERMICIDAL QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: GLUA



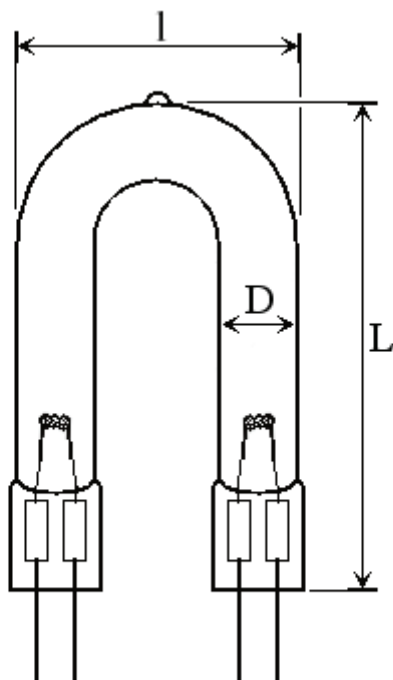
Data Sheet							
Code	Wattage W	Lamp Curent A	UV Output W	Length L mm	Length l mm	Diame- ter D mm	Average Life Hrs
GLUAW5D10L45	5	0,17	1,50	45	40	10	7000
GLUAW6D10L70	6	0,17	2,00	70	44	10	7000
GLUAW8D10L150	8	0,17	8,50	150	44	10	7000
GLUAW60D13L815	60	0,42	20,00	815	46	13	7000
GLUAWG12D15L80	12	0,30	6,00	80	65	15	7000
GLUAWG12D15L125	12	0,36	8,50	125	65	15	7000
GLUAWG16D15L430	16	0,42	13,10	430	65	15	7000
GLUAWG60D15L815	60	0,45	25,50	815	65	15	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI GERMICIDAL QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: GLUP



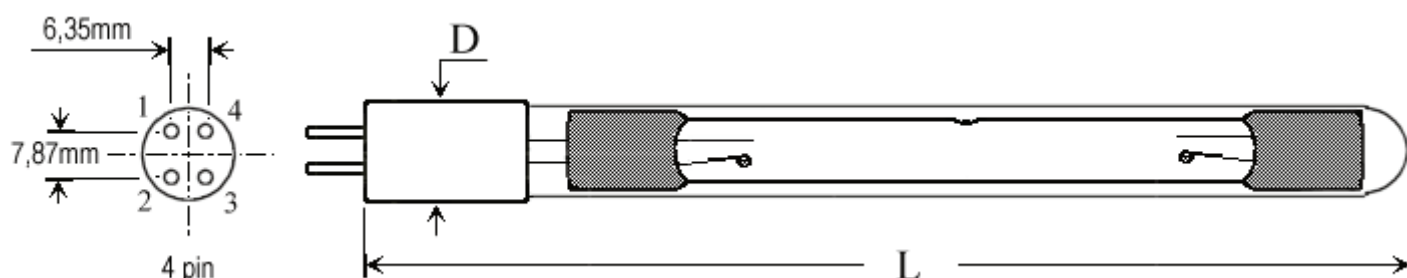
Data Sheet							
Code	Wattage W	Lamp Curent A	UV Output W	Length L mm	Length I mm	Diameter D mm	Average Life Hrs
GLUPW5D10L45	5	0,17	1,50	45	40	10	7000
GLUPW6D10L70	6	0,17	2,00	70	44	10	7000
GLUPW8D10L150	8	0,17	8,50	150	44	10	7000
GLUPW60D13L815	60	0,42	20,00	815	46	13	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI DOUPLE-TUBE GERMICIDAL LAMPS

Terme Quartz Internazionale

Type: GLBTA-P4 Bi-Tube



Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

TQI these lamps are specially manufactured for double-tube germicidal lamps for use in water of liquid.

They are very easy to handle because have a double-tube structure with the outside of a straight germicidal lamp being sealed with UV glass and a base is used in only on side. They can be directly immersed into water lighting. Since they are specifically designed for use in water, they have special size and electrical characteristics. Use specially designed to increase the tolerance for flashing. For disinfecting water (liquid), select appropriate germicidal lamps taking into account the water (liquid) transmissibility, thickness (depth), flow rate and volume, and type of germs.

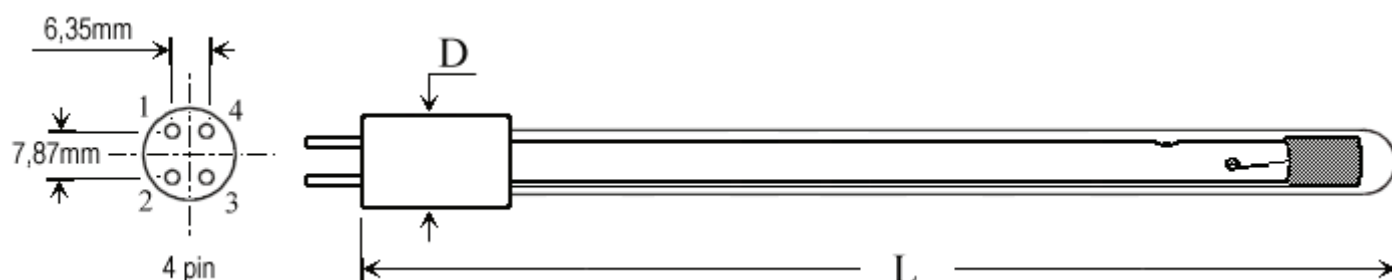
Data Sheet							
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
GLBTAW6D15L117-P4	6	0.16	24	0.70	117	15	7000
GLBTAW10D15L170-P4	10	0.17	24	1.20	170	15	7000
GLBTAW12D15L240-P4	12	0.17	24	2.00	240	15	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI DOUPLE-TUBE GERMICIDAL LAMPS

Terme Quartz Internazionale

Type: GLBTS-P4 Bi-Tube



Pins 1 and 4 connected to one cathode. Pins 2 and 3 connected to second cathode.

TQI these lamps are specially manufactured for double-tube germicidal lamps for use in water of liquid.

They are very easy to handle because have a double-tube structure with the outside of a straight germicidal lamp being sealed with UV glass and a base is used in only on side. They can be directly immersed into water lighting. Since they are specifically designed for use in water, they have special size and electrical characteristics. Use specially designed to increase the tolerance for flashing. For disinfecting water (liquid), select appropriate germicidal lamps taking into account the water (liquid) transmissibility, thickness (depth), flow rate and volume, and type of germs.

Data Sheet							
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
GLBTSW6D15L117P4	6	0.16	24	0.70	117	15	7000
GLBTSW10D15L170P4	10	0.17	24	1.20	170	15	7000
GLBTSW12D15L240P4	12	0.17	24	2.00	240	15	7000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI HIGH PRESSURE QUARTZ LAMPS

Terme Quartz Internazionale

TQI High pressure mercury vapor lamps, accepted as the optimal radion sources for UV curing applications, emit in the medium, long and short UV wave lengths.

Application:

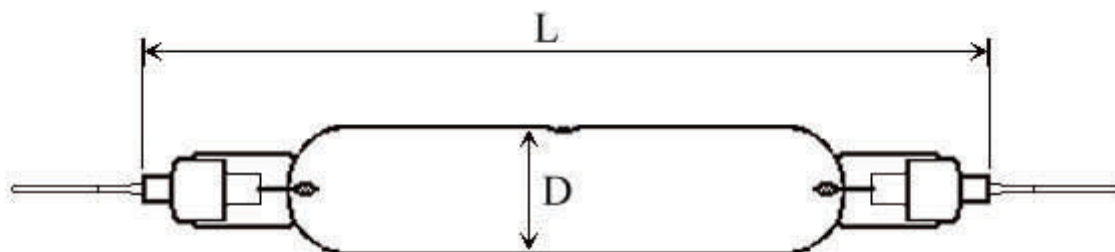
Curing of plastics, lacquers and inks, polymerisation, paint drying, colour printing processes and cartography, for chemical analysis, for chemistry, for laser technology, for medicine, for electronics, photochemical processes.

<i>Type Lamps</i>	Page
TQIHPL	30
TQIH	31

TQI HIGH PRESSURE QUARTZ LAMPS

Terme Quartz Internazionale

Type: TQIHPL



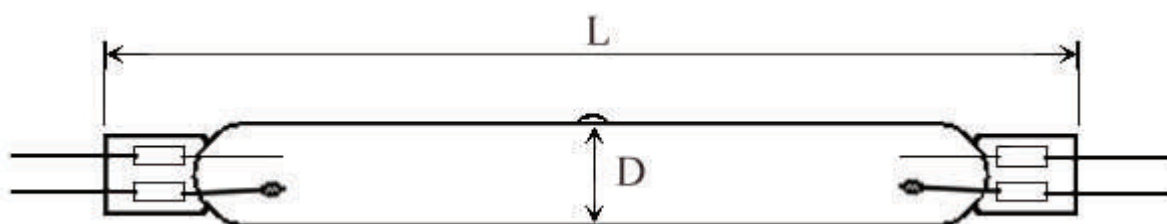
Data Sheet								
Code	Wattage W	Lamp Voltage V	Line Voltage V	Lamp Current A	Length L mm	Arc Length mm	Diameter D mm	Average Life Hrs
TQIHPLW1000D22L230	1000	145	230	7.5	230	106	22.5	1000
TQIHPLW1000D24L215	1000	130	230	8.6	215	120	24.5	1000
TQIHPLW1300D22L230	1300	150	230	9.7	230	125	22.5	1000
TQIHPLW1500D22L275	1500	150	230	11	275	152	22.5	1000
TQIHPLW1500D22L275	1500	150	230	11	275	152	22.5	1000
TQIHPLW1700D22L275	1700	275	400	7	275	152	22.5	1000
TQIHPLW2000D22L330	2000	240	400	9.7	330	206	22.5	1000
TQIHPLW2000D22L330	2000	240	400	9.7	330	206	22.5	1000
TQIHPLW2000D19L361	2000	210	400	9.5	361	250	19.5	1000
TQIHPLW2250D24L275	2250	150	230	16	275	152	24.5	1000
TQIHPLW2400D26L330	2400	270	400	10	330	206	26.5	1000
TQIHPLW2500D22L380	2500	280	400	10	380	247	22.5	1000
TQIHPLW3000D22L430	3000	275	400	12	430	305	22.5	1000
TQIHPLW3000D22L350	3000	265	400	12	350	250	22.5	1000
TQIHPLW3600D22L480	3600	275	400	14.5	480	356	22.5	1000
TQIHPLW3700D26L410	3700	230	400	18	410	300	26.5	1000
TQIHPLW4000D24L329	4000	280	400	16	329	250	24.5	1000
TQIHPLW4000D24L380	4000	360	570	12	380	256	24.5	1000
TQIHPLW4000D26L380	4000	360	570	12	380	256	26.5	1000
TQIHPLW4100D22L550	4100	270	400	16	550	425	22.5	1000
TQIHPLW4200D22L550	4200	600	1000	8	550	425	22.5	1000
TQIHPLW5000D22L630	5000	440	660	12.4	630	505	22.5	1000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI HIGH PRESSURE QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: TQIH



Data Sheet						
Code	Wattage W	Lamp Current A	Lamp Voltage V	Length L mm	Diameter D mm	Average Life Hrs
TQIHW80D10L80	80	0.80	80	80	10	1000
TQIHW80D10L125	125	1.15	90	125	10	1000
TQIHW80D10L250	250	2.15	130	165	15	1000
TQIHW80D10L400	400	3.25	135	275	22	1000
TQIHW80D10L700	700	5.40	140	380	23	1000
TQIHW80D10L1000	1000	7.50	145	630	23	1000

Warning: the uv rays are dangerous to skin and eyes. People exposed to this radiations have to use adequate protections.

TQI INFRARED QUARTZ LAMPS

Terme Quartz Internazionale

TQI infrared lamps permit an high radiant energy concentration and a precise control. They offer a clear, dry and suitable heating system, useful both in the industrial field and in agriculture.

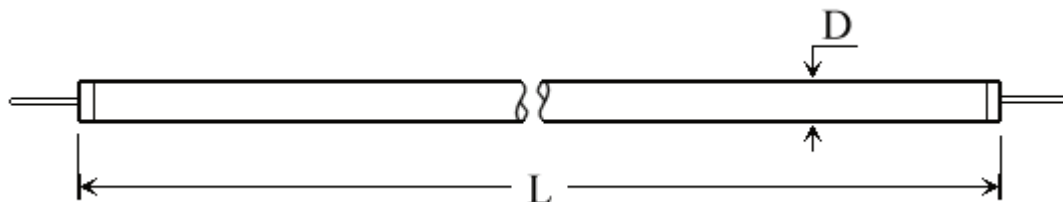
Application: metal heating, to dry ink and paint, climatic control of greenhouses and breedings, food heating, sterilization.

<i>Type Lamps</i>	Page
IRD	33
IRDH	34-35
IRC	36
IRE	37

TQI INFRARED QUARTZ LAMPS

Terme Quartz Internazionale

Lamp Type: IRD



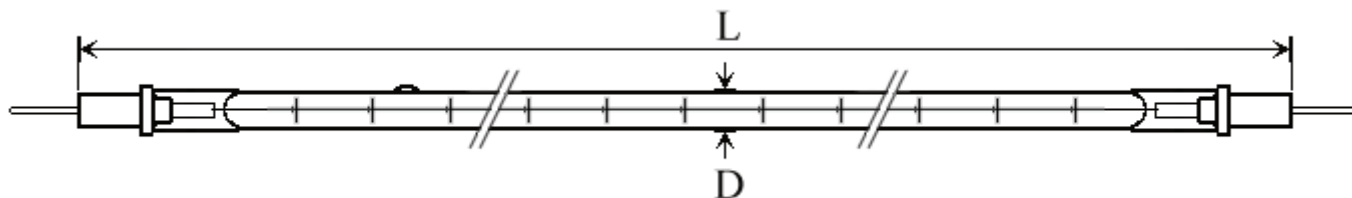
Data Sheet

Code	Wattage W	Lamp Current A	Lamp Voltage V	Resisten- ce Ohm	Length L mm	Diameter D mm	Average Life Hrs
IRDW640V240D10L450	640		230	88	450	10	1000
IRDW640V120D10L450	640	5,33	120	22,5	450	10	1000
	1300		230				

TQI INFRARED HALOGEN QUARTZ

Terme Quartz Internazionale

Lamp Type: IRDH



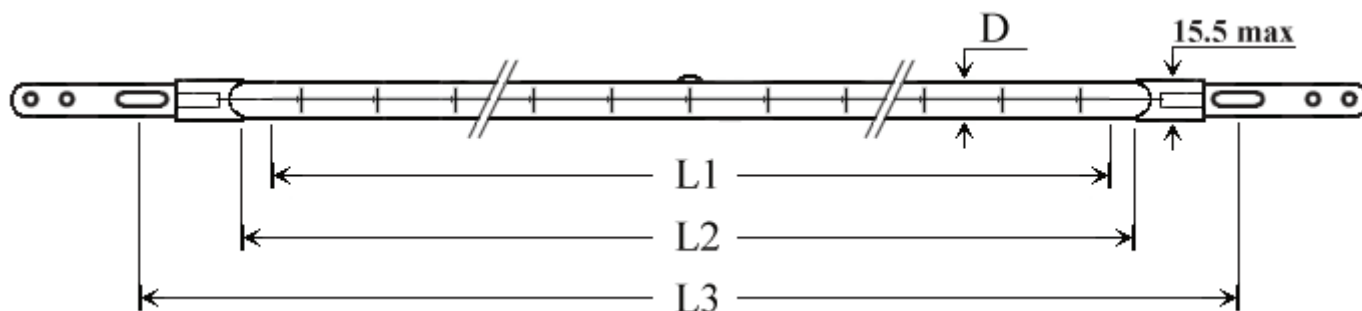
Data Sheet

Code	Wattage W	Lamp Curent A	Lamp Voltage V	UV Output W	Length L mm	Diameter D mm	Average Life Hrs
IRDH8X393R7S	1000		230		393	8	
IRDH8X330R7S	1000		230		330	8	
IRDH8X495R7S	1000		230		495	8	

TQI INFRARED HALOGEN QUARTZ

Terme Quartz Internazionale

Lamp Type: IRDH



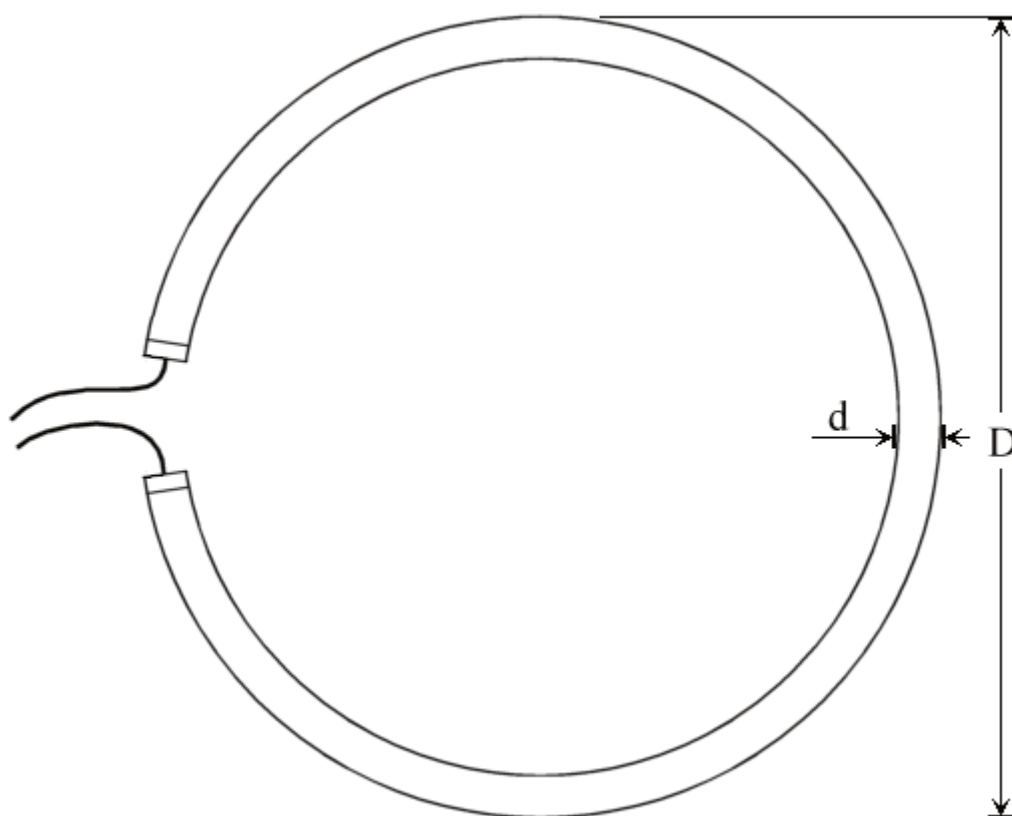
Data Sheet

Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Length L1 mm	Length L2 mm	Length L3 mm	Diameter D mm	Average Life Hrs

***TQI* INFRARED QUARTZ LAMPS**

Terme Quartz Internazionale

Lamp Type: IRC

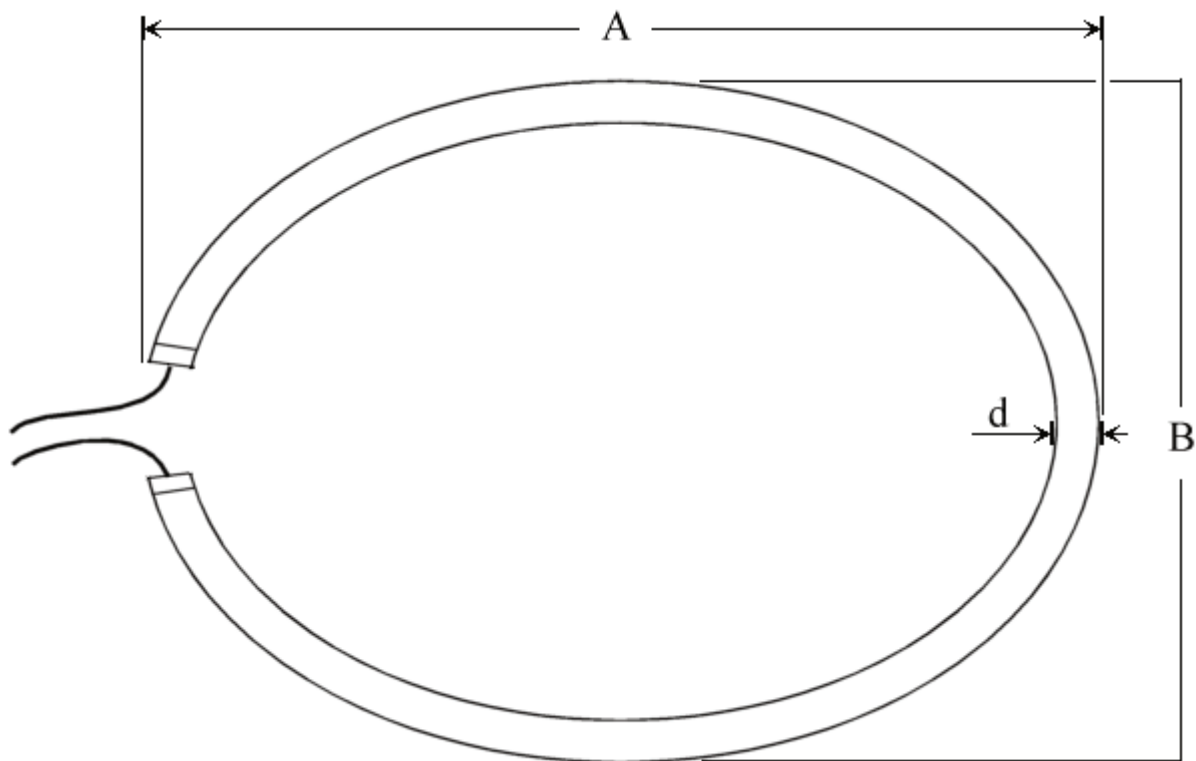


Data Sheet							
Code	Wattage W	Lamp Current A	Lamp Voltage V	UV Output W	Diameter D mm	Diameter d mm	Average Life Hrs
IRCW200D145	200	0.87	230	200	145	10	2000
	400						
	600						

***TQI* INFRARED QUARTZ LAMPS**

Terme Quartz Internazionale

Lamp Type: IRE



Data Sheet

Code	Wattage W	Lamp Current A	Lamp Voltage V	Length A mm	Length B mm	Diameter d mm	Average Life Hrs
IREW200	200	0.87	230	165	125	10	2000

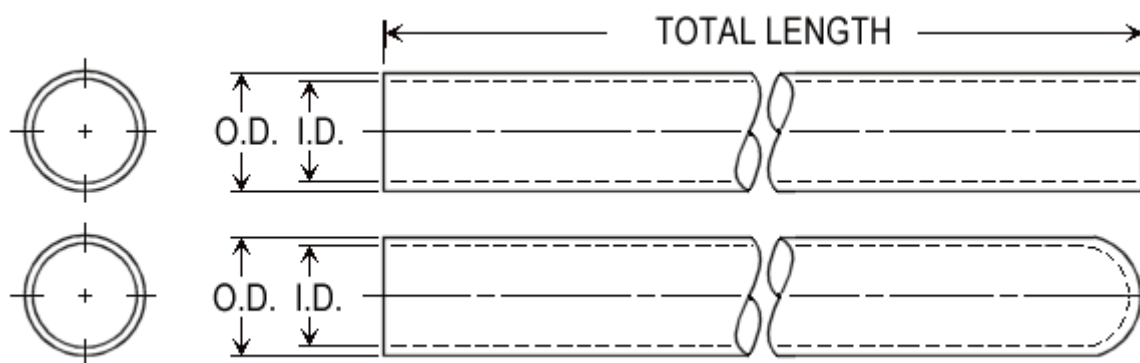
TQI QUARTZ TUBES

Terme Quartz Internazionale

Guaie in Quartz

TQI produces also quartz tubes this tubes are manufacture in order to put in it a germicidal lamp that is so protected.

The tubes let the lamp have an uniform temperature and in this way it assure the peah efficiency.



Code	Est.diameter mm	Length mm	Price Itl	
GE 214D15L110	15	110		
GE214D15L265	15	265		
GE214D21L200	21	200		
GE214D24L250	24	250		
GE214D24L330	24	330		
GE214D24L440	24	440		

TQI QUARTZ TUBES

Terme Quartz Internazionale

GE Fused Quartz Products

Lamp Grade Tubing

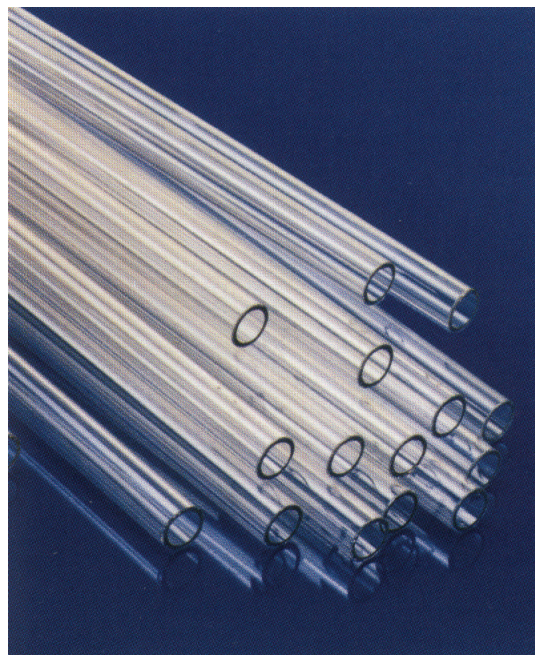
Ge Quartz is the world's leading producer of fused quartz for lighting applications. In its production of fused quartz, GE utilizes a proprietary beneficiation process that produces ultra high-purity starting materials. Continual improvements in this technology enables GE to offer the highest quality products for the world's growing number of quartz users. Different basic types of lamp grade quartz are available, each designed to fulfill specific performance requirements. Together, these materials cover a wide variety of applications. They include:

Type 214

The worldwide standard for clear fused quartz lamp tubing. GE 214 is a high purity, high transmittance, high temperature material with a low hydroxy (OH⁻) content. It is suitable for a broad range of mercury, halogen and other quartz lamp applications.

Type 219

Known as "Ozone-Free" or "Germicidal" quartz tubing. GE 219 transmits UV-A and UV-B while blocking the deep, high energy wavelengths that cause ozone generation and pose the greatest exposure risks. Type 219 transmits the 253.7 nanometer mercury emission very efficiently, making it an ideal material for disinfection applications and various other UV treatments.



Typical Sizes, Clear Fused Quartz Tubing

Designation IDxOD (mm)	Wall (mm)	Designation IDxOD (mm)	Wall (mm)
1x3	1.00	19x25	3.00
1.2x3	0.90	20x22	1.00
1.6x3	0.70	20x22.8	1.40
2x3	0.50	20x23	1.50
2x4	1.00	20.2x23	1.40
2x6	2.00	22x25	1.50
2.3x3.6	0.60	22x25.3	1.65
2.35x3.65	0.65	22x25.8	1.90
2.35x4	0.83	23x26	1.50
2.35x4.35	1.00	25x27.5	1.25
3x5	1.00	25x28	1.50
4x6	1.00	25x28.8	1.90
5x7	1.00	27x30	1.50
6x8	1.00	30x33	1.50
6x10	2.00	32x35	1.50
7x9	1.00	34x38	2.00
7.75x9.75	1.00	35x38	1.50
7.8x10	1.10	37x40	1.50
8x10	1.00	38x44	3.00
8x12	2.00	38.1x42.1	2.00
8.5x10.5	1.00	40x43	1.50
9x11	1.00	42x45	1.50
9x11.8	1.40	45x48	1.50
10x12	1.00	47x50	1.50
10.5x12.75	1.13	48x52	2.00
11x13	1.00	50x54	2.00
11.7x14.1	1.20	50x55	2.50
12x14	1.00	53x57	2.00
12.75x15	1.13	55x59	2.00
13x15	1.00	57x61	2.00
15x17	1.00	60x64	2.00
15x18	1.50	63x67	2.00
16x18	1.00	65x69	2.00
18x20.5	1.25	66x70	2.00
18x21.6	1.80		

Physical Properties		
	Type 214	Type 219
Density (g/cc)	2.2	2.21
Thermal Expansion Coefficient (cm/cm °C)	5.5x10 ⁻⁷	5.9x10 ⁻⁷
Softening Point (°C)	1683	1660
Annealing Point (°C)	1215	1204
Strain Point (°C)	1120	1106
Index of Refraction	1.4585	1.456
Specific Heat (J/Kg °K) (0-50 °C)	670	700
Compressive Strength (Pa)	>1.1x10 ⁹	.94x10 ⁹
Young's Modulus (Pa)	7.2x10 ⁵	7x10 ⁶
Electrical Resistivity (ohm cm @ 350 °C)	7x10 ⁹	2.5x10 ¹⁰
Dielectric Constant (@ 1MHz)	3.75	5.8

Dimensional Tolerances						
OD Range	Wall As % Of OD	OD	Wall	Siding	Ovality	Bow/ 1220mm
<5mm	<18%	+2.50%	+10%	10%	2.0%	2.44mm
5mm-13mm	<18%	+2.00%	+10%	10%	1.5%	2.0mm
6mm-13mm	<18%	+1.25%	+8%	8%	1.5%	2.0mm
13mm-30mm	<18%	+1.50%	+8%	8%	1.5%	2.0mm
30mm-60mm	<18%	+1.50%	+10%	10%	1.5%	2.0mm