



Instant, efficient plastics forming

Philips infrared halogen lamps



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PHILIPS

The instant, efficient way to form plastics

Philips infrared halogen lamps provide productive, energy-efficient heating for a wide range of plastics forming applications, such as bottle blowing, thermoforming and many more. New sheet processing technologies and the use of thermoformable materials greatly extend the range of products that can be formed.

Thermoforming therefore maximizes creativity and versatility, making it a preferred process for plastic forming.

Philips infrared halogen lamps increase productivity, with optimal versatility, safety and energy savings. Thanks to their high irradiance output, Philips infrared lamps require lower installed power to transmit the same level of heat. This high efficiency means less power is required to provide the same material temperature compared with quartz or ceramic emitters. The instant heat reduces cycle time and increases higher process speed.

Lamps for versatile, energy efficient forming of plastics	
Features	Benefits
Infrared halogen technology	A clean, safe and compact heat source for instant, efficient plastic forming
Dimmable	Output accurately controllable from 0 to 100% to match your needs
High irradiance output	Lower installed power needed than with quartz or ceramic emitters to create the same material temperature

Philips infrared halogen lamps give a better temperature gradient through the plastic thickness for enhanced temperature homogeneity, which is a key factor in plastics processing. These infrared lamps can be instantly adjusted to the required heat level simply by dimming, which means a more accurate, versatile process.

Philips infrared halogen lamps save time and money by improving and optimizing heating processes.

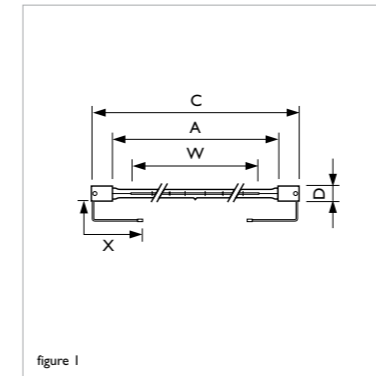


figure 1

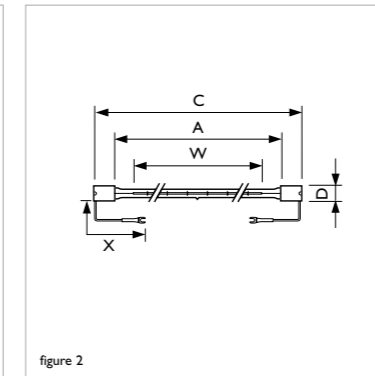


figure 2

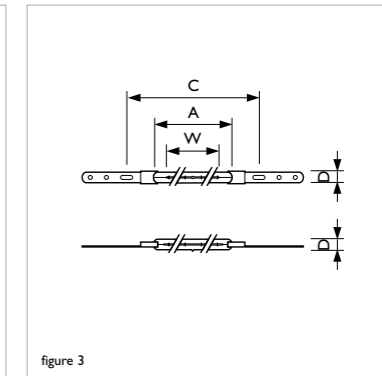


figure 3

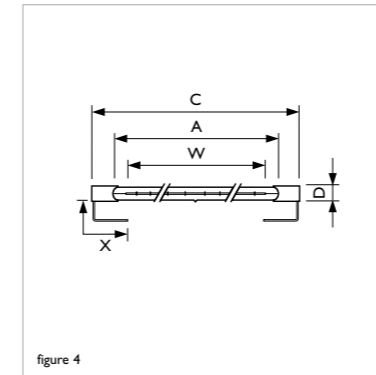


figure 4

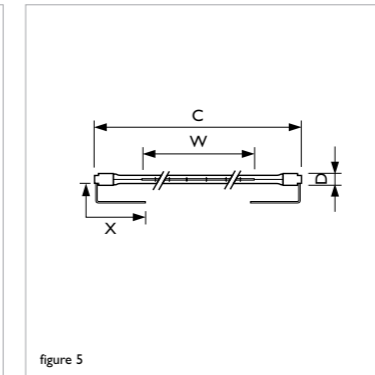


figure 5

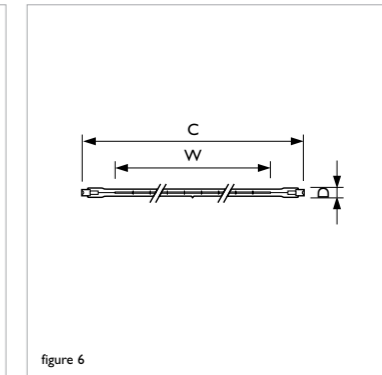


figure 6



Applications

- Blowing of plastic bottles
- Plastics thermoforming
- Softening and melting of plastics



Picture by Sidel

Philips infrared halogen lamps

Type	Lamp Wattage (W)	Voltage (V)	Fig.	Cap/Base	Total lamp length (mm) C	Heating length (mm) W	Diameter (mm) D	Finish	Burning position	Average lamp life (h)	Colour temp. (K)	Cable (mm) X	Cable connection	I2nc	EOC	US Product Number
13908Z	300	230	1	SK15	122	60	11	Clear	Horizontal	1.000	2500	140	Splice	9245.271.44216	871150049609625	-
13169X	500	120	3	X	242	142	11	Clear	Horizontal	5.000	2500	-	-	9238.500.32316	871150021679325	312033
13169X/98	500	120	3	X	242	142	11	Reflector	Horizontal	5.000	2500	-	-	9238.502.32316	871150021740025	312058
500T3	500	120	5	U	224	127	11	Translucent	Horizontal	5.000	2500	146	Splice	9245.176.36316	871150051763025	216515
500T3/7	500	120	6	R7S	219	127	11	Translucent	Horizontal	5.000	2500	-	-	9245.177.34616	871150051764725	209940
13169Z/98	500	235	2	SK15	227	159	11	Reflector	Horizontal	5.000	2400	200	Fork	9238.527.44516	871150021741725	-
14143Z/98	2.500	400	2	SK15s	355	280	11	Reflector	Horizontal	5.000	2700	200	Fork	9245.561.49116	871150018579225	-
14144Z/98	3.000	400	2	SK15s	355	280	11	Reflector	Horizontal	5.000	2650	200	Fork	9245.562.49116	871150018580825	-
14136Z/98	2.000	235	2	SK15	355	280	11	Reflector	Horizontal	5.000	2700	200	Fork	9245.477.44916	871150018453525	-
14137Z/98	2.500	235	2	SK15	355	280	11	Reflector	Horizontal	5.000	2700	200	Fork	9245.478.44916	871150018456625	-
13842Z	700	240	1	SK15	216	150	20	Clear	Horizontal	5.000	2600	140	Splice	9245.270.45516	871150049608925	-
13195X	1.000	235	3	X	370	280	11	Clear	Horizontal	5.000	2500	-	-	9238.510.43916	871150021742425	-
1000T3	1.000	240	5	U	351	254	11	Translucent	Horizontal	5.000	2500	146	Splice	9245.178.43816	871150051765425	312132
1000T3/CL	1.000	240	5	U	303	254	11	Clear	Horizontal	5.000	2500	146	Splice	9245.179.43816	871150051766125	209957
14134Z/98	1.200	235	2	SK15	224	155	11	Reflector	Horizontal	5.000	2700	150	Fork	9245.371.49116	871150005842325	210005
14135Z/98	1.600	235	2	SK15	228	155	11	Reflector	Horizontal	5.000	2700	150	Fork	9245.372.44916	871150018450424	-
13168X	2.000	235	3	X	370	288	11	Clear	Universal	5.000	2500	-	-	9238.525.43916	871150051772225	-
2MT3/ICL/HT/UB0	2.000	240	5	U	305	254	11	Clear	Universal	5.000	2500	146	Splice	9245.185.45516	871150051772225	216481