

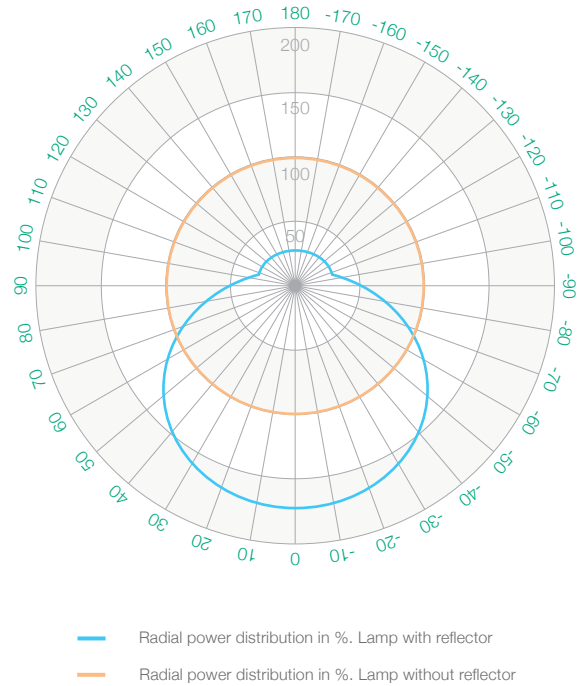
USHIO

IR-Lamps for PET Blow-Moulding Equipment

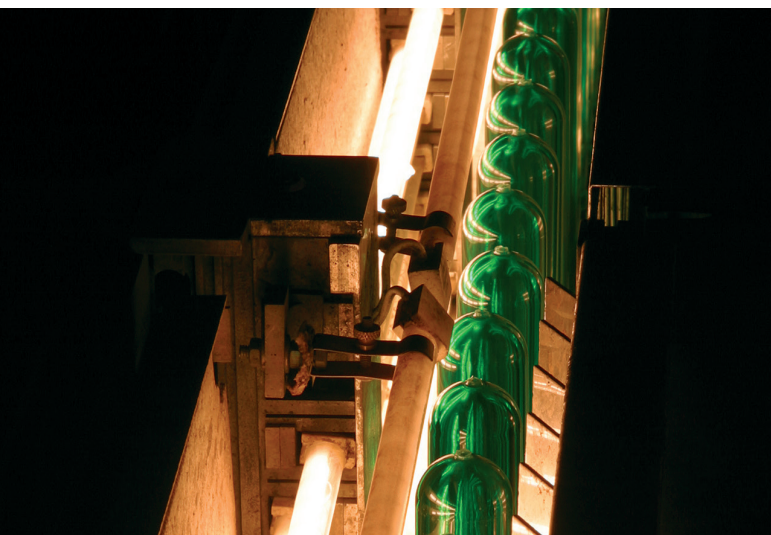
By using a reflector, the radiation can easily be directed, increasing usable IR power up to 180%. Integrated or external reflectors can be used depending on the application. Integrated reflectors guarantee high quality, easy handling and heat protection of the IR-lamp's housing.

Integrated reflectors are directly flame-sprayed on the quartz tube. In most cases the reflector is made of alumina ceramic. It has an efficiency of approx. 80%. The high temperature resistance of the alumina ceramic reflector of up to 1000 °C also helps even in applications without forced air cooling to guarantee the reflector functionality over the lamp's life. The effectiveness is shown in the graphics on the right.

It is customary to use the terms short wave, medium wave and long wave to classify IR-lamps. These definitions are easily remembered, but from a technical point of view they are incorrect.

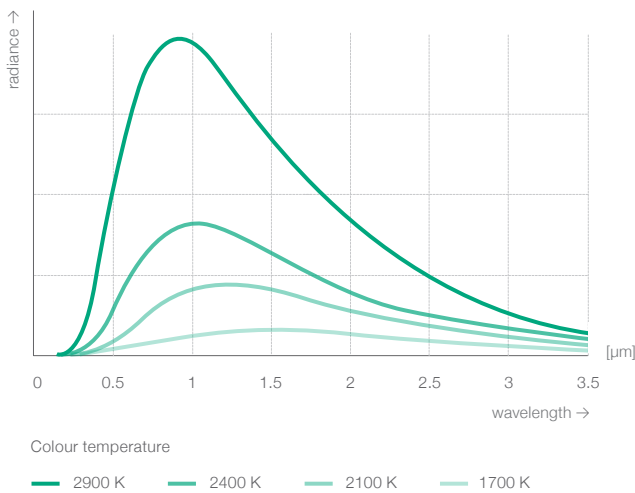


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Solid state or monolithic lamps, i. e. incandescent lamps, continuously emit radiation within two of the above-mentioned wavelength ranges. The diagram shows a typical spectrum of an incandescent lamp at different colour temperatures.

Depending on the required wavelength, different types of IR-lamps can be used: short-wavelength IR-lamps, medium-wavelength open quartz tube lamps, longwavelength ceramic-tube or metal-tube lamps.



Develop together with USHIO

USHIO is a partner that listens to your ideas and requirements. Let us optimize your processes according to your specifications and expectations. Use our expertise to develop a tailor-made solution together that matches your needs.

Wattage W	Volt V	OAL mm	Heating length mm	USHIO item code
600	120	130	70	919599227
1000	235	349	272	930309794
1000	235	349	272	9019109394
1000	240	354	272	9031026394
1000	240	354	272	931336327

Wattage W	Volt V	OAL mm	Heating length mm	USHIO item code
1100	240	225	160	9031386394
1200	144	224	155	919429227
1200	235	224	155	9019679127
1300	220	375	290	9031046927
1300	230	451	360	9031016927
1500	230	451	360	9031036994
1500	360	458	360	930700194
1500	400	600	510	931056927
1600	144	224	155	919419227
1600	235	224	155	9019669127
1600	240	506	406	919070827
2000	235	349	280	919409194
2000	235	349	280	930309894
2000	235	351	280	9030701194
2000	240	354	280	9031306394
2000	240	354	280	931316327
2000	240	354	280	9031106394
2000	235	357	280	930407394
2000	360	458	360	930700227
2000	230	650	500	930407594
2500	235	351	280	9030701294
2500	400	260	240	930006227
2500	400	375	306	9019358794
2500	400	377	310	9032506294
2500	360	458	360	930700327
2500	400	604	515	930202827
3000	235	357	280	930407494
3000	400	375	306	9030407694
3000	400	377	410	9032506394
3000	230	783	700	9030407694
3500	400	260	240	930006327
4000	400	260	240	932505327



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