HPA lamps



Introduction

Offset Print HPA UV-A: Medium-pressure metal halide lamps

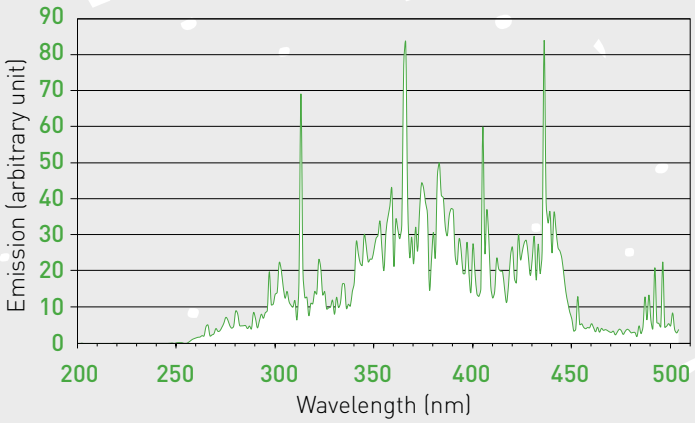
DR. FISCHER HPA lamps, optimized for the UV-A bandwith (315 to 400 nm), are ideal for reprography and photochemical processes. Their high radiant efficiency and high arc-stability ensure cost-efficient and reliable usage. They provide the ideal optimal light source for contact copying of images from transparent film to UV-sensitive carriers such as film, offset plates, printed circuit boards and microfilms. These DR. FISCHER HPA lamps are also perfectly suitable for photochemical process applications such as the UV-curing of glues, resins and pigmented lacquers.

Applications	Integration in systems
■ Reprography photochemical processes • Plate-making, • UV-curing of glues, resins, pigmented lacquers, • Printed circuits. ■ Copying of images • Film, • Offset plates, • Microfilms.	■ Measures must be taken to protect eyes and skin from UV-B and UV-C light which are emitted by the lamps.  ■ Bulb temperature should be kept between 750 and 950°C, with maximum 350°C at the pinches. This might require forced air cooling adapted to power level. ■ DR. FISCHER HPA lamps are made of ozone-free quartz and are constructed to generate an optimum UV-A spectrum.

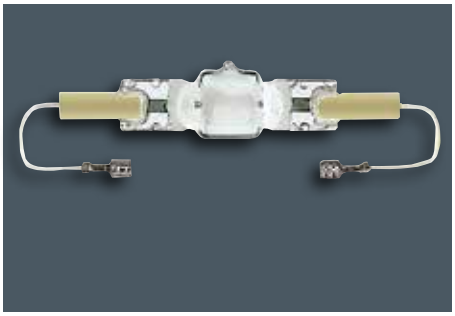
Characteristics of HPA lamps:

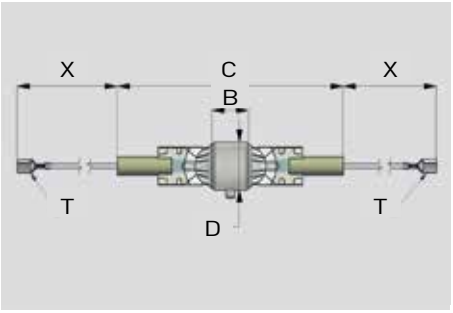
Features	Benefits
Spectrum is optimized for UV-A radiation	Best match with UV-A photo sensitizers
No ozone production	Best environmental choice

HPA Typical Spectrum of an iron doped lamp



HPA products





Pinch Seal

12NC	Type #	Watt *W*	Volt *V*	Lamp Current *A*	UV-A *(*)* irrad. at 0h *µW/cm2*	Arc length *mm* (B)	Total length *mm* (C)	Bulb diame-ter *mm* (D)	Base	Cables *+/-5 mm* (X)	Terminal (T)	Qty Box *pc*
9280 756 06002	HPA 1000/20R	1,100	120	10.5	1,780	21	129	30	10	100/100	straight faston	4
9280 805 06054	HPA 1200	1,200	125	10.5	2,240	83	147	30	8	195/195	stripped end	4
9280 810 06002	HPA 1001R	1,150	130	10.0	2,000	26	137	25	10	110/110	straight faston	4
9280 563 06002	HPA 2020S	2,000	240	8.7	515	83	185	28	10	350/350	stripped end	4

(*) UV irradiation measured perpendicular to lamp axis at 1 m distance with a relative spectral sensitivity according to IEC. UV-A is the wavelength range between 315-400 nm.

Shrink Seal

12NC	Type #	Retrofit lamp	Watt *W*	Volt *V*	Lamp Current *A*	Arc length *mm* (B)	Total Length *mm* (C)	Bulb diameter *mm* (D)	Base	Cables *+/-5 mm* (X)	Terminal (T)
UV-1211-00	HPA 130/120-S	Natgraph - NG 1300 Fe	15,500	1,700	10	1,338	1,486	23	19	100/100	eyelet 5 mm
UV-1211-10	HPA 110/120-S	Natgraph - NG 1100 Fe	14,000	1,550	10	1,170	1,321	23	19	100/100	eyelet 5 mm
UV-1211	HPA 90/120-S	Natgraph - NG 900 Fe	11,000	1,270	10	960	1,095	23	19	100/100	eyelet 5 mm