



# HPM lamps





## HPM Lamps: Medium-pressure metal halide lamps

DR. FISCHER HPM Diazo lamps emit in the Diazo range (230 – 450 nm) and are optimized for UV-A radiation. Being similar to HPA lamps, HPM lamps are designed to meet the special spectral demands of reprography, photochemical applications and the use of Diazo colors.

The lamp spectrum has been modified by adding additives and adjusting the mercury content to generate exactly those spectral lines needed to cure Diazo colors. They are therefore ideal for high-quality, large-format printing and plotting applications in the architectural and engineering

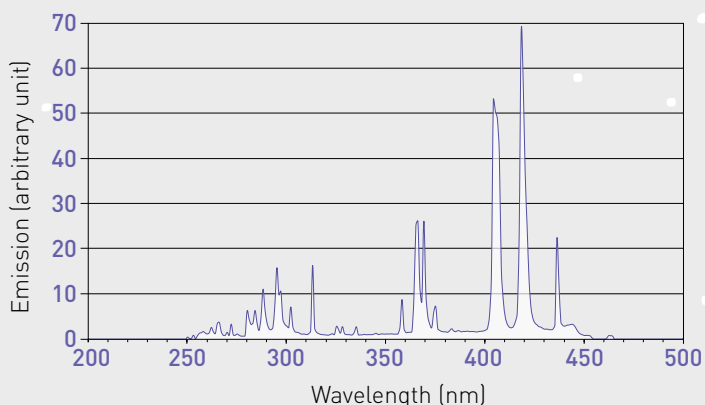
industries. In addition, HPM Diazo lamps provide a high radiant efficiency and high arc stability for cost-efficient and reliable usage.

Applications	Integration in systems
<ul style="list-style-type: none"> <li>■ Printing and plotting applications</li> <li>■ Copying of images from transparent film to UV-sensitive carriers such as film, offset plates, printed circuit board and microfilms</li> <li>■ UV curing of glues, resins and pigmented lacquers</li> </ul>	<ul style="list-style-type: none"> <li>■ Measures must be taken to protect eyes and skin from UV-B and UV-C light which are emitted by the lamps.</li> </ul> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <ul style="list-style-type: none"> <li>■ 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.</li> <li>■ DR. FISCHER HPM lamps are made of ozone-free quartz</li> </ul>

## Characteristics of HPM lamps:

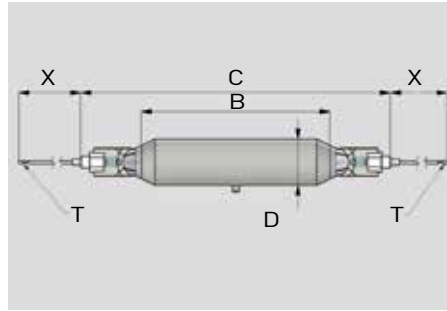
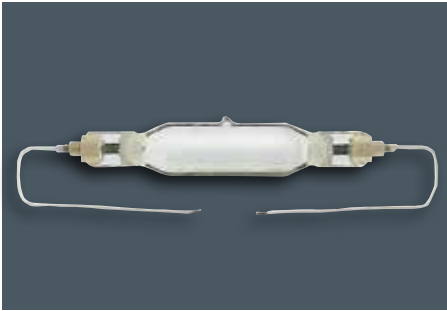
Features	Benefits
Spectrum is optimized for UV-A radiation	Best environmental choice
No ozone production	Ideal for high quality, large-format printing and plotting applications
HPM Repro lamps radiate in the Diazo range	Cost-efficient
Most lamps are designed to run at several power levels, e.g. standby, medium and full	Reliable usage
Burning position horizontal (+/- 10°)	High radiant efficiency
	High arc-stability

### HPM Typical Spectrum of a gallium doped lamp



## Products

## HPM products



## Pinch Seal

12NC	Type #	Watt W	Volt V	Lamp Cur- rent A	Diazo <sup>(*)</sup> irrad. at 0h $\mu\text{W}/\text{cm}^2$	Arc length mm (B)	Total length mm (C)	Bulb diame- ter mm (D)	Base	Cables +/-5 mm (X)	Terminal (T)	Qty Box pc
9280 723 05102	HPM 15	1,950	245	9.0	4,100	131	203	33	8	295/295	stripped end	4
9280 724 05138	HPM 16	2,000	245	8.7	4,600	113	220	30	X-CLIP	-	-	4
9280 727 05102	HPM 17	2,000	243	8.7	4,600	113	175	30	8	320/320	stripped end	4
9280 728 05102	HPM 15	1,950	245	9.0	4,100	131	203	33	8	320/320	stripped end	4
9280 729 05102	HPM 12	460	120	4.1	800	44	98	22	8	315/315	stripped end	4
9280 744 05102	HPM 13	1,000	125	8.6	2,000	83	147	30	8	145/145	stripped end	4
9280 792 06002	HPM 25/C	5,000	245	23.0	12,000	186	276	30	12	190/190	stripped end	4
9280 794 06002	HPM 4010 (HPM30)	4,000	310	13.5	10,500	117	204	33	11	190/190	stripped end	4
9280 807 06002	HPM 4020	4,000	400	11.5	11,500	162	249	30	11	120/120	straight faston	4
9280 813 06002	HPM 3000	3,350	400	9.0	9,000	105	191	30	11	125/125	straight faston	4

(\*) UV irradiation measured perpendicular to lamp axis at 1 m distance with a relative spectral sensitivity according to IEC. Diazo is the wavelength range between 320-440 nm.

## Shrink Seal

12NC	Type #	Retrofit lamp	Watt W	Volt V	Lamp Cur- rent A	Arc length mm (B)	Total Length mm (C)	Bulb diame- ter mm (D)	Base	Cables +/-5 mm (X)	Terminal (T)
UV-1214-20	HPM 140/120-S	Bayer -KB1841 1400 Ga	16,800	1,520	12.8	1,400	1,535	22.0	18	300/300	eyelet 5mm
UV-1221-10	HPM 142/100-S	UV-Technik - UVH-14222 G-1	14,200	1,900	8.3	1,420	1,575	22.5	19	600/2280	stripped end

