



## Creates the perfect daylight in any condition

**Philips MSR Hot Restrike lamps provide the right amount of light, constantly on call.**

Stable and reliable to ensure perfect performance conditions. Compact Single Ended Lamp technology that enables hot re-ignition while maintaining superb color characteristics.



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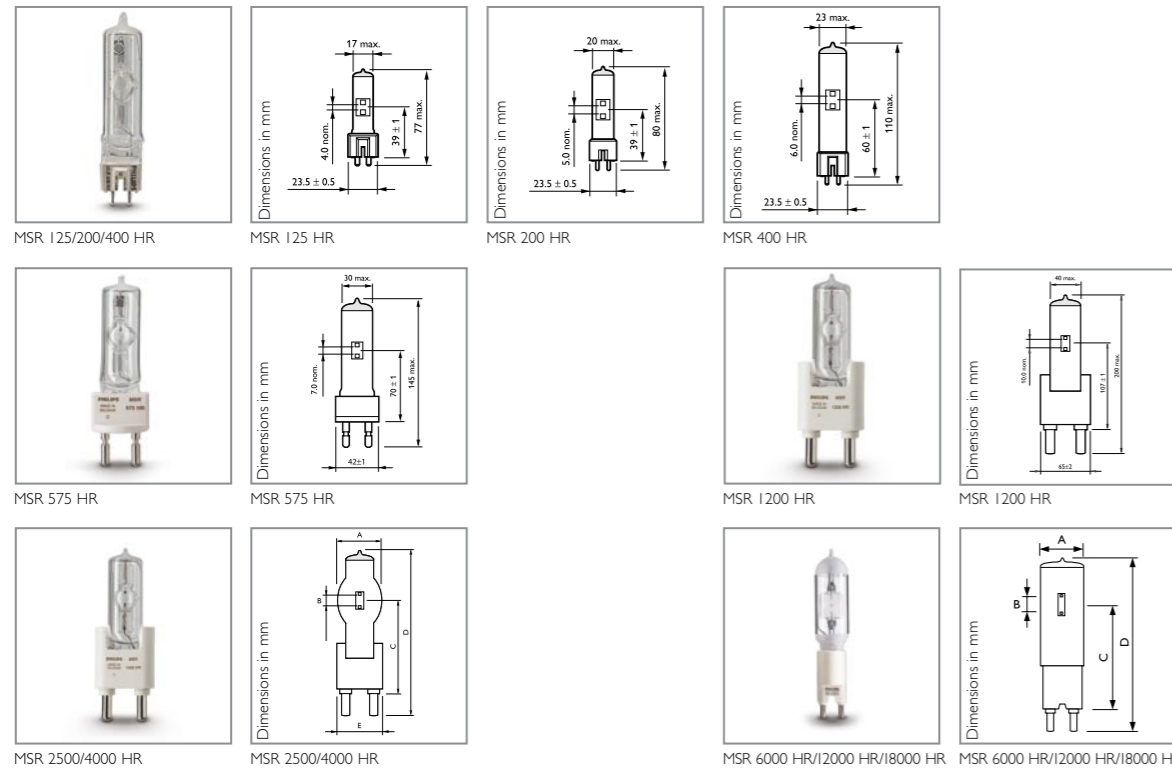
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# PHILIPS

# Philips MSR Hot Restrike

Features	Benefits
Philips Pinch Protection	Enables use at higher temperatures in any burning position. Longer lifetime, fewer early failures, consistent performance over time
MSR filling	Perfect daylight color due to 6000K temperature with excellent color characteristics required for the set
Optimal discharge tubes geometry	No arc movement
High efficacy	High lumen output
Short arc	High beam intensity
Hot Restrike capability	Hot re-ignition is possible ensuring the availability of the light at any time



Type	A	B	C	D	E
2500 HR	60 max.	14.0 nom.	127±1	240 max.	65±2
4000 HR	77 max.	20.0 nom.	142±1	255 max.	65±2

Type	A	B	C	D
MSR 6000 HR	74	24	210±2	370 max.
MSR 12000 HR	103	30	255±2	460 max.
MSR 18000 HR	103	35	260 +/- 2	470 max.

Type	Lamp wattage	Cap/ base	Lumen output	Efficacy source	Chromaticity coordinate		Color temp.	Dimming	Average lamp life	Replacement before hrs	Minimum ignition supply voltage	CRI	Lamp current	Ordering number
	W		lm	lm/W	x	y	K		h		V		A	
MSR 125 HR	125	GZX9.5	9400	75	.323	.328	6000	YES	200	300	207	92	1.9	9280 602 05100
MSR 200 HR	200	GZY9.5	15000	75	.323	.328	6000	YES	200	400	207	92	3.3	9280 979 05100
MSR 400 HR	400	GZZ9.5	32000	80	.323	.328	6000	YES	750	1000	207	92	6.9	9280 502 05100
MSR 575 HR	575	G22	49000	85	.323	.328	6000	YES	1000	1200	207	95	6.95	9280 977 05100
MSR 1200 HR	1200	G38	110000	91	.323	.328	6000	YES	1000	1200	207	95	13.8	9281 050 05100
MSR 2500 HR	2500	G38	240000	96	.323	.328	6000	YES	500	750	207	95	25.6	9281 049 05100
MSR 4000 HR	4000	G38	380000	95	.323	.328	6000	YES	500	650	207	95	24.0	9280 504 05100
MSR 6000 HR	6000	GY38	570000	95	.323	.328	6000	YES	500	650	207	95	55.0	9281 727 05100
MSR 12000 HR	12000	GY38	1200000	100	.323	.328	6000	YES	300	350	207	95	86.0	9281 733 05100
MSR 18000 HR	18000	GX51	1750000	95	.323	.328	6000	YES	300	350	207	95	-	tbd

Nominal values measured in horizontal burning position in an integrating sphere on a magnetic ballast.

### Maximum permissible temperatures (°C) Starter specifications

Type	Pinch	Bulb	Type of lamp	Starting voltage V		R/C network	Min. starting time (sec)
				min.	max.		
MSR 125 HR	350	700	MSR 125 HR	20000	25000	27 Ω/0.5 μF	2
MSR 200 HR	350	700	MSR 200 HR	20000	25000	27 Ω/0.5 μF	2
MSR 400 HR	350	700	MSR 400 HR	25000	30000	27 Ω/0.5 μF	2
MSR 575 HR	350	700	MSR 575 HR	25000	30000	27 Ω/0.5 μF	2
MSR 1200 HR	350	700	MSR 1200 HR	45000	55000	27 Ω/0.5 μF	2
MSR 2500 HR	450	700	MSR 2500 HR	45000	55000	15 Ω/1 μF	2
MSR 4000 HR	450	700	MSR 4000 HR	45000	55000	15 Ω/1 μF	2
MSR 6000 HR	400	700	MSR 6000 HR	50000	60000	15 Ω/1 μF	2
MSR 12000 HR	400	700	MSR 12000 HR	65000	75000	15 Ω/3 μF	2
MSR 18000 HR	450	700	MSR 18000 HR	65000	75000	-	2

### Ballast specifications

Type of lamp	Mains voltage V	Impedance Ω	Current A	Ballast losses W
MSR 125 HR	230	105	2	20
MSR 200 HR	230	61	3.5	25
MSR 400 HR	230	30	7.0	50
MSR 575 HR	230	28	6.95	60
MSR 1200 HR	230	14	13.8	120
MSR 2500 HR	230	7	25.6	200
MSR 4000 HR	400	12	24	300
MSR 6000 HR	230	3.16	55	300
MSR 12000 HR	230	1.61	84	750
MSR 18000 HR	230	-	84	-



### Philips pinch protection technology

- **Reliability**, through longer lifetime and fewer early failures.
- **Quality**, through excellent storage characteristics and consistent performance over time.
- **Compactness**, allowing more compact design of fixtures and burning positions.