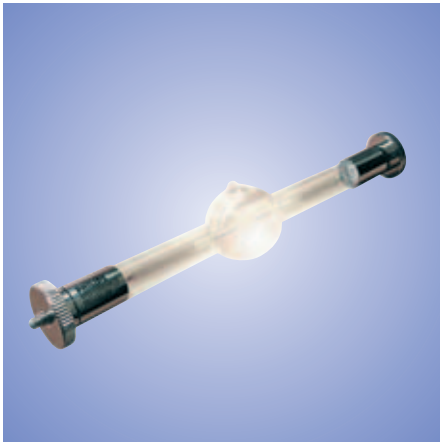
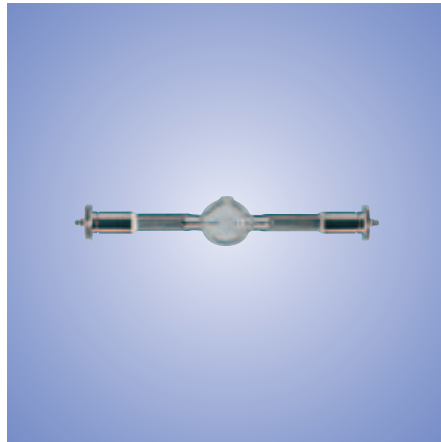


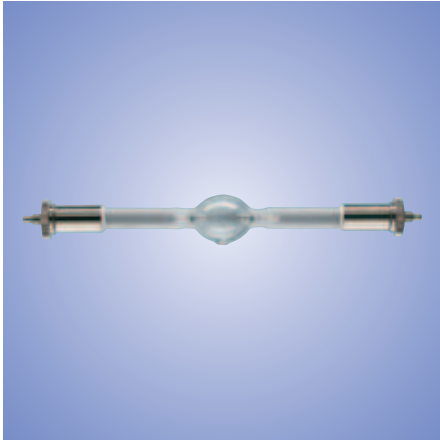
BE



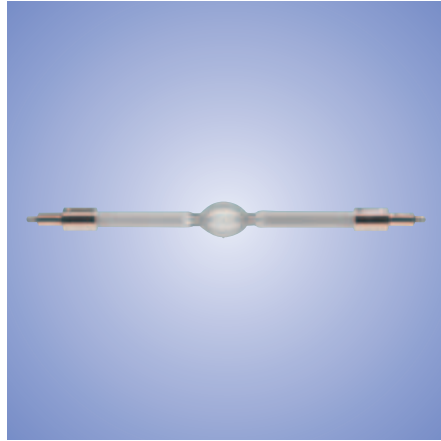
MSR 1200 SA/DE



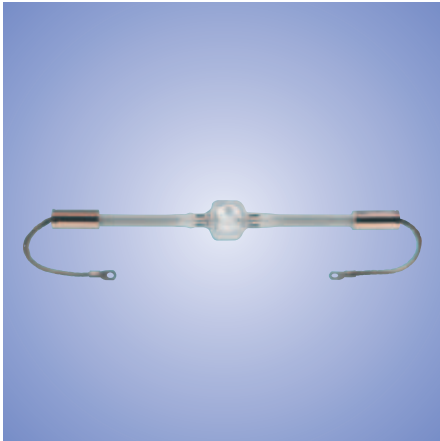
MSI 575



MSI 1200



MSI 2500, MSI 4000



MSI 6000, MSI 12000

Features

High-efficiency metal halide lamps combining the high luminous efficacy, compact arc and excellent colour characteristics required in a variety of applications. They can be operated on an AC electronic power supply as well as on a magnetic ballast-ignitor combination. The run-up time is 3 minutes. Hot re-ignition is possible with a high voltage peak (up to 75 kV). In view of their high internal working pressure, these lamps must only be operated in closed luminaires. They radiate a considerable amount of ultra-violet; the luminaire lenses must block this, and no radiation must be spilled through ventilation slots. MSI 575 and MSI 1200 versions have a universal burning position. The MSI 2500 version has a burning position of horizontal +/- 30 degr: Other versions: horizontal +/- 15 degr: The MSR 1200 SA/DE is Philips latest addition to the MSI range. Its compact size makes the lamp ideally suited for Entertainment applications where miniaturisation of moving heads is a continuous trend.

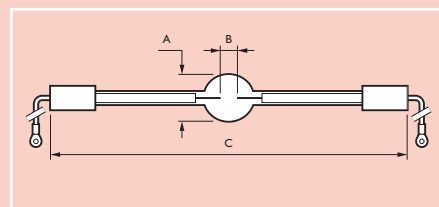
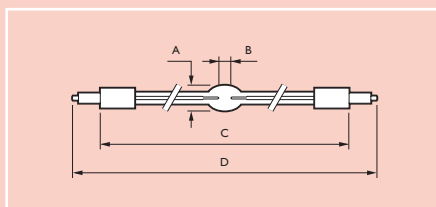
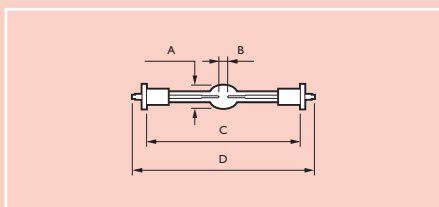
Applications

- Indoor and outdoor colour television.
- Indoor and outdoor filming.
- Theatre stages.
- Discos.
- Entertainment.



| Type | Lamp wattage | Cap/base | Lumen output | Efficacy source | Colour temperature Nom. | Dimming | Burning position | Average lamp life | Replacement before hrs | Minimum ignition supply voltage | Lamp current | Ordering number |
|----------------|--------------|-----------|--------------|-----------------|-------------------------|---------|------------------|-------------------|------------------------|---------------------------------|--------------|-----------------|
| | W | | lm | lm/W | Tc (K) | | | h | h | V | A | |
| MSI 575 | 575 | SFc10-4 | 49000 | 85 | 5600 | NO | ANY | 1000 | 1200 | 207 | 6.95 | 9281 043 00000 |
| MSI 575/2 | 575 | SFc10-4 | 47 000 | 82 | 6800 | NO | Horizontal | 750 | 1000 | 207 | 6.95 | 9249 117 00000 |
| MSI 1200 | 1200 | SFc15,5-6 | 110 000 | 92 | 5600 | NO | ANY | 1000 | 1200 | 207 | 13.8 | 9281 044 00000 |
| MSR 1200 SA/DE | 1200 | SFc10-4 | 110 000 | 90 | 6000 | NO | ANY | 750 | 1000 | 207 | 13.6 | 9280 996 05100 |
| MSI 2500 | 2500 | SFa21-12 | 240 000 | 96 | 5600 | NO | HOR ± 30 | 600 | 750 | 207 | 25.6 | 9281 045 00000 |
| MSI 4000 | 4000 | SFa21-12 | 410 000 | 95 | 6000 | NO | HOR ± 15 | 600 | 750 | 360 | 24 | 9281 046 00000 |
| MSI 6000 | 6000 | S25,5x60 | 570 000 | 95 | 6000 | NO | HOR ± 15 | 400 | 500 | 207 | 55 | 9281 047 00000 |
| MSI 12000 | 12000 | S30x70 | 1100 000 | 92 | 6000 | NO | HOR ± 15 | 300 | 350 | 360 | 82 | 9281 048 00000 |

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



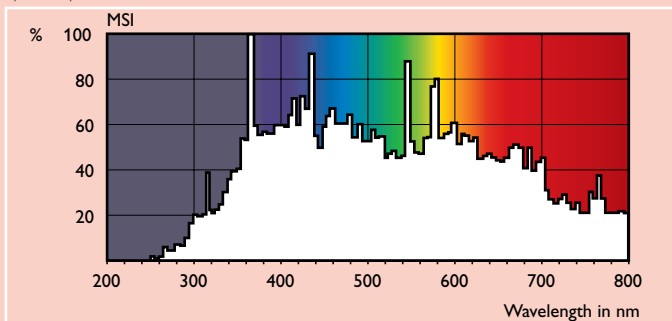
Dimensions in mm

| Type | A max. | B | C | D max. |
|----------------|--------|----|-----|--------|
| MSI 575 | 21.0 | 7 | 115 | 136 |
| MSI 575/2 | 21.0 | 7 | 115 | 138 |
| MSI 1200 | 28.5 | 10 | 180 | 220 |
| MSR 1200 SA/DE | 21.0 | 7 | 115 | 136 |

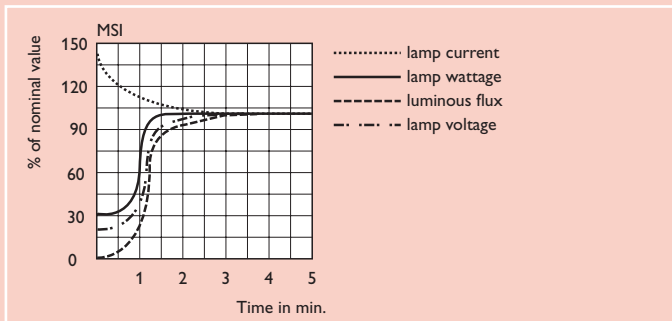
| Type | A max. | B | C | D max. |
|----------|--------|------|-----|--------|
| MSI 2500 | 32.5 | 20.0 | 290 | 355 |
| MSI 4000 | 40.0 | 34.0 | 340 | 405 |

| Type | A max. | B | C max. |
|-----------|--------|----|--------|
| MSI 6000 | 52 | 22 | 450 |
| MSI 12000 | 65 | 32 | 470 |

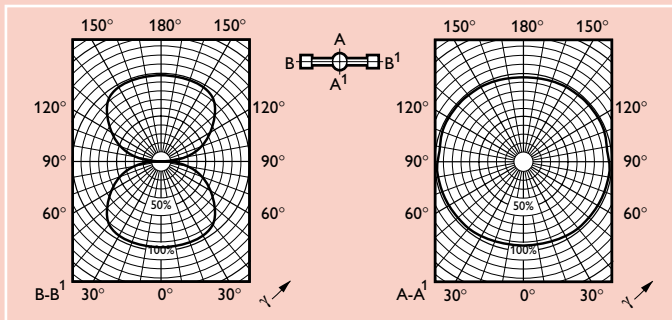
Spectral power distribution



Lamp performance during run-up



Light distribution diagram



Maximum permissible temperatures (degr. C)

| Type | Base | Bulb |
|----------------|------|------|
| MSI 575 | 230 | 800 |
| MSI 575/2 | 230 | 800 |
| MSI 1200 | 230 | 800 |
| MSR 1200 SA/DE | 230 | 800 |
| MSI 2500 | 230 | 800 |
| MSI 4000 | 230 | 800 |
| MSI 6000 | 230 | 900 |
| MSI 12000 | 230 | 900 |

* Pinch temperature

Ballast specifications

| Type of lamp | Mains voltage V | Impedance Ω | Current A | Ballast losses W |
|----------------|-----------------|--------------------------|-----------|------------------|
| MSI 575 | 230 | 28 | 6.95 | 60 |
| MSI 575/2 | 230 | 28 | 6.95 | 60 |
| MSI 1200 | 230 | 14 | 13.8 | 120 |
| MSR 1200 SA/DE | | electronic ballasts only | | |
| MSI 2500 | 230 | 7 | 25.6 | 200 |
| MSI 4000 | 400 | 12 | 24 | 300 |
| MSI 6000 | 230 | 3.16 | 55 | 300 |
| MSI 12000 | 400 | 1.64 | 82 | 500 |

Starter specifications

| Type of lamp | Ignition Voltage (kV) min. cold | max. hot | R/C network | Min. starting time (sec) | Remark |
|----------------|---------------------------------|----------|----------------|--------------------------|----------------|
| MSI 575 | 3 | 25 | 30 27 Ω/0.5 μF | 2 | - |
| MSI 575/2 | 3 | 25 | 30 27 Ω/0.5 μF | 2 | - |
| MSI 1200 | 5 | 45 | 55 27 Ω/0.5 μF | 2 | - |
| MSR 1200 SA/DE | - | 45 | 50 | - | 2 Hot Restrike |
| MSR 1200 SA/DE | - | 5 | 50 | - | 10 Cold Strike |
| MSI 2500 | 20 | 45 | 55 15 Ω/1 μF | 2 | - |
| MSI 4000 | 20 | 65 | 75 15 Ω/1 μF | 2 | - |
| MSI 6000 | 20 | 50 | 60 15 Ω/1 μF | 2 | - |
| MSI 12000 | 20 | 65 | 75 15 Ω/1 μF | 2 | - |