

MHN-TD Low wattage

MHN-TD



MHN-TD RX7s

Product Description

- Doubled-ended lamps housed in a tubular clear UV-Block quartz evacuated outer envelop

Product Benefits

- High lamp efficacy results in low operating costs and low heat generation
- Compact size for smaller luminaire
- Different ambience by three color temperature (3000K, 4200K and 5200K)
- Long life time compare to incandescent and halogen lamps
- UV-Block for reduced aging of plastic components in luminaires

Application

- Shops and shop windows, offices and public buildings
- Decorative outdoor lighting, city beautification
- Billboard

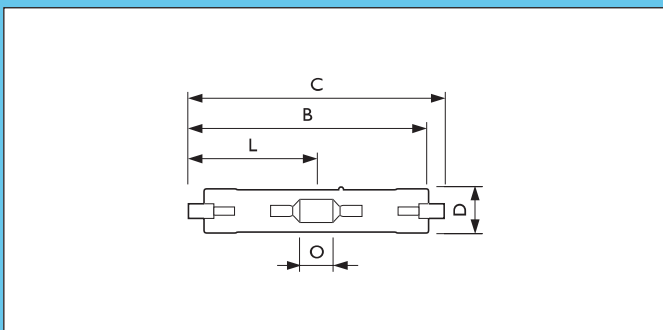
Luminaires

- It must be used in a luminaire with a hard-glass cover to protect against possible discharge tube shattering

Systems

- Must be used in combination with ballasts and ignitor
- Lamp is designed to operate on conventional SON system. For conventional gear, the lamp must only be used on SON 70W (reactor or constant wattage) ballast which comply with the lamp operating limits as defined in 60662-IEC-1020-2.
- The Mains voltage may only deviate by max. +6/-8% from the voltage indicated on the type plate. Operation of lamps beyond nominal line voltage and frequency for extended period of time (>25% of design life) can result in reduce lamp life.
- Warm restart time can be up to 15 minutes. If the lamp does not start (e.g. with T5 ignitors).

Dimensions in mm



| | Overall length | Diameter | Light center length | Arc length | |
|------------|----------------|----------|---------------------|------------|--------|
| Product ID | C max. | D max. | L nom. | O nom. | B nom. |
| 70W | 139 | 24 | 64.9 | 17.8 | 132 |
| 150W | 139 | 24 | 64.9 | 17.8 | 132 |
| 250W | 161.6 | 27.5 | 69.5 | 27 | 135.4 |

Preferred selection

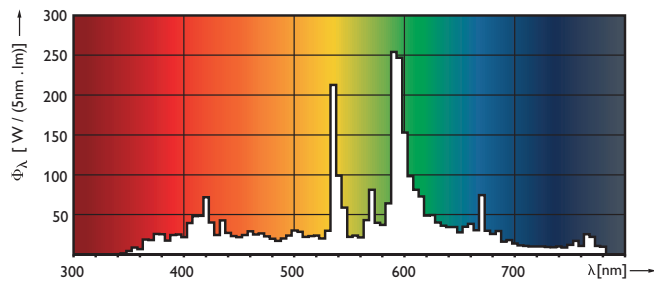
| Product ID | Lamp Wattage EL (W) | Lamp Current EL (A) | Lamp Voltage (V) | Cap Base | Color Temperature (K) | Color Rendering Index (R _a) |
|--------------------|---------------------|---------------------|------------------|----------|-----------------------|---|
| MHN-TD 70W/730 | 70 | 0.98 | 90 | R x 7s | 3000 | 70 |
| MHN-TD 150W/730 | 150 | 1.8 | 96 | R x 7s | 3000 | 70 |
| MHN-TD 70W/842 | 70 | 0.98 | 90 | R x 7s | 4200 | 80 |
| MHN-TD 150W/842 | 150 | 1.8 | 98 | R x 7s | 4200 | 85 |
| MHN-TD 70W/852 | 70 | 0.98 | 98 | R x 7s | 5200 | 80 |
| MHN-TD 150W/852 | 150 | 1.8 | 98 | R x 7s | 5200 | 85 |
| MHN-TD Pro250W/842 | 250 | 3 | 100 | FC 2 | 4200 | 80 |

| Product ID | Chromaticity Coordinate X | Chromaticity Coordinate Y | Bulb Finish | Luminous Flux Lamp (lm) | Luminous Efficacy (lm/w) | Operating Position |
|--------------------|---------------------------|---------------------------|-------------|-------------------------|--------------------------|--------------------|
| MHN-TD 70W/730 | 434 | 400 | Clear | 6200 | 80 | Horizontal +/- 45° |
| MHN-TD 150W/730 | 434 | 400 | Clear | 13800 | 87 | Horizontal +/- 45° |
| MHN-TD 70W/842 | 370 | 370 | Clear | 5700 | 75 | Horizontal +/- 45° |
| MHN-TD 150W/842 | 370 | 370 | Clear | 12900 | 81 | Horizontal +/- 45° |
| MHN-TD 70W/852 | 330 | 340 | Clear | 5000 | 65 | Horizontal +/- 45° |
| MHN-TD 150W/852 | 330 | 340 | Clear | 11000 | 73 | Horizontal +/- 45° |
| MHN-TD Pro250W/842 | 370 | 370 | Clear | 20000 | 80 | Horizontal +/- 45° |

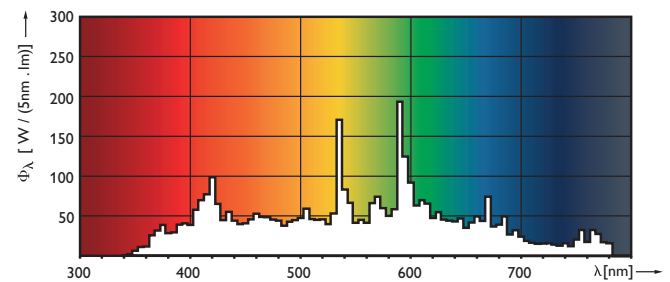
| Product ID | Ignition Peak Voltage (V) | Cap-Base Temperature max. (°C) | Permitted Bulb Temperature max. (°C) | Net Weight Product (gr) |
|--------------------|---------------------------|--------------------------------|--------------------------------------|-------------------------|
| MHN-TD 70W/730 | 5000 | 280 | 500 | 20 |
| MHN-TD 150W/730 | 5000 | 280 | 650 | 30 |
| MHN-TD 70W/842 | 5000 | 280 | 500 | 20 |
| MHN-TD 150W/842 | 5000 | 280 | 650 | 30 |
| MHN-TD 70W/852 | 5000 | 280 | 500 | 20 |
| MHN-TD 150W/852 | 5000 | 280 | 650 | 30 |
| MHN-TD Pro250W/842 | 5000 | 280 | 650 | 54 |

Spectral power distribution

MHN-TD 70/150W/730



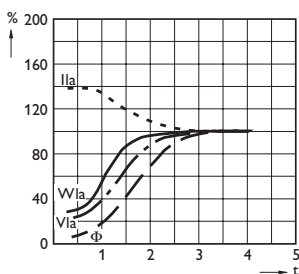
MHN-TD 70/150W/842



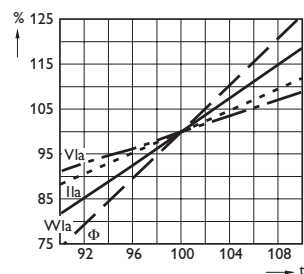
Performance diagrams

MHN-TD

Lamp performance during run up



Effects of mains voltage variations



I_{la} = Lamp current
 W_{la} = Lamp Wattage
 Φ = Luminous Flux
 V_{la} = Lamp Voltage