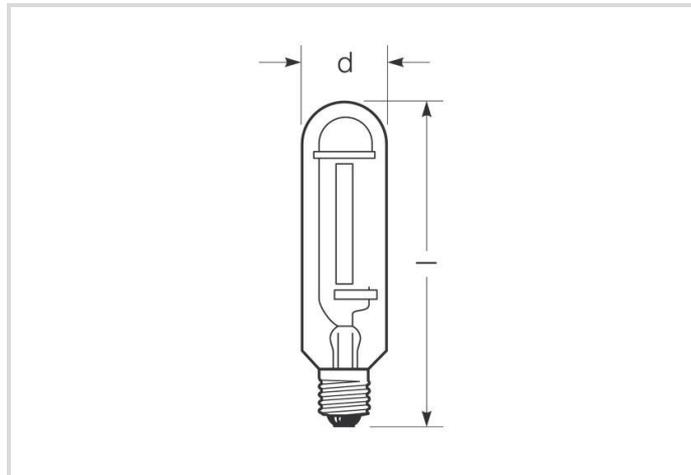


High pressure sodium lamp

RNP-T 100W/230/E40 EX

Radium

Product Datasheet Date: 20.04.2026



A+



9000



2000K



20 000h

General Data

| | |
|---------------------------|-----------------------|
| Article No. | 34418369 |
| Kod | RNP-T 100W/230/E40 EX |
| Product EAN | 4008597183690 |
| Box quantity (pcs.) | 12 |
| EAN Box | 4008597483691 |
| Gross weight of box in kg | 2.256 |
| Length of box in m | 0.27 |
| Width of box in m | 0.22 |
| Height of box in m | 0.28 |
| Product weight | 130 g |
| Product status | ● Nieaktywne |

Electric Parameters

| | |
|----------------------|---------------|
| Wattage | 97.0 W |
| Lamp nominal wattage | 100 W |
| Lamp voltage | 100 V |
| Mains voltage | 230 V |
| Ignition voltage | 4.0 up to 5.0 |

Electric Parameters

| | |
|---|---|
| Nominal current (A) | 1.2 A |
| Nominal choke current | 1.2 A |
| Compensation capacitor for 50Hz operation | 12 μ F |
| Running up current max. | 125% |
| Fuse | Delay-action; min. double nominal current |
| Controllable (in suitable circuit) | up to 50% |

Light Application Parameters

| | |
|-----------------------------|------------|
| Luminous flux | 9000 lm |
| Rated lamp luminous flux | 9000 lm |
| Efficacy | 92.78 lm/W |
| Total mains efficacy | 97 lm/W |
| Colour temperature | 2000 K |
| Color rendering index | 25 |
| Lumen maintenance at 2000h | 0.92 |
| Lumen maintenance at 4000h | 0.90 |
| Lumen maintenance at 6000h | 0.89 |
| Lumen maintenance at 8000h | 0.88 |
| Lumen maintenance at 12000h | 0.88 |
| Lumen maintenance at 16000h | 0.87 |
| Lumen maintenance at 20000h | 0.86 |

Service Life

| | |
|---------------------------------|---------|
| Average life | 20000 h |
| B5 - Service life 5% failures | 8000 h |
| B10 - Service life 10% failures | 11000 h |
| Lamp survival factor at 2000h | 0.99 |
| Lamp survival factor at 4000h | 0.98 |
| Lamp survival factor at 6000h | 0.95 |
| Lamp survival factor at 8000h | 0.90 |
| Lamp survival factor at 12000h | 0.87 |
| Lamp survival factor at 16000h | 0.74 |
| Lamp survival factor at 20000h | 0.50 |

Specification

| | |
|------------------------|--|
| Energylabel notice | old label, no EPREL registration, no EU data sheet |
| Energylabel (E -> A++) | A+ |
| Diameter | 47 mm |
| Length | 210 mm |
| Total length max. | 210 mm |
| Burning position | h180 |
| Mercury content | 19.0 mg |
| Lamp shape | Tube, single-ended |
| Model | Clear |
| Base | E40 |

Notes on Operation

| | |
|------------------|------|
| Burning position | h180 |
|------------------|------|

Information especially for EPREL

| | |
|--------------------|--|
| Energylabel notice | old label, no EPREL registration, no EU data sheet |
|--------------------|--|

Miscellaneous

| | |
|----------------------|------------|
| EU-date of phase-out | 13.04.2015 |
| EU Directive | TIM |

Notes

Standard high pressure sodium lamp, tubular bulb clear, base E40, for sales outside EU, without CE-marking.

Please, refer to www.radium.de/recycling for notes on disposal of burned-out lamps as well as lamp breakage.

The "lifespan L70" described for LED lamps indicates the number of hours when the luminous flux has decreased to 70% of its initial value.

The optimal field 'info about service life' contains the frame conditions according to standards based on which the specific service life has been determined. So, for example, "12B50, 50Hz" means that the mean service life (B50) has been determined with a 12h switching cycle at mains (frequency 50Hz), "3B50, HF" is based on a 3h switching cycle at electronic control gear (high frequency).

Base



E40
IEC/EN 60061-1
sheet 7004-24-6

Spectrum

Da das Tageslicht eine Mischung von direktem Sonnenlicht und Himmelslicht darstellt, wechselt seine spektrale Zusammensetzung bedingt durch Tageszeit und Wetter ständig. Die Normlichtart D65 entspricht einem Tageslicht mit einer Farbtemperatur von ungefähr 6500 K.

Jeder Entladungslampentyp hat eine seiner Füllung entsprechende, individuelle spektrale Strahlungsverteilung. Daraus ergeben sich dann so wichtige Eigenschaften wie Lichtfarbe oder Farbwiedergabe. Natriumdampflampen sind sehr wirtschaftlich, durch das gelbe Licht haben RNP Lampen eine

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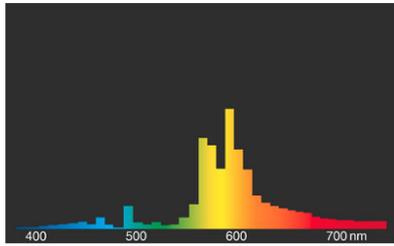
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Radium

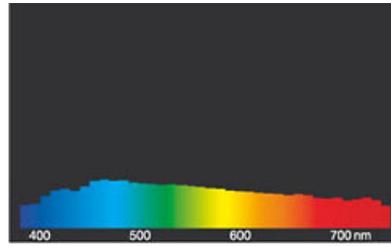
hohe Lichtausbeute aber eine eher bescheidene Farbwiedergabe.

Beim Anlauf von RNP-Lampen ist der volle Lichtstrom nach ca. 6-10 Minuten erreicht.

Sichtbarer Bereich von 380 bis 780 nm; Bildhöhe entspricht der relativen spektralen Emission (400mW/klm)pro 10nm.

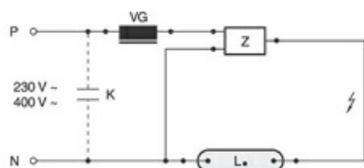


RNP Standard/Super



Tageslicht (D 65)

Circuit diagram(s)



Standard circuit HID with external ignitor

Key:

L. = lamp

VG = electromagnetic ballast (KVG/VVG)

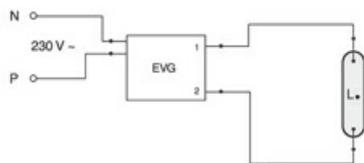
P = phase

N = zero potential

K = p. f. correction capacitor

Z = ignitor

The required control gear (here ignitor and ballast) for the lamps operation is usually mounted in the suitable luminaire in an appropriate electric circuit. Changes of any kind are to be conducted by qualified and specialised staff, only. Thus, this circuit example is to be understood merely as a technical background information for interested users.



ECG-operation

Key:

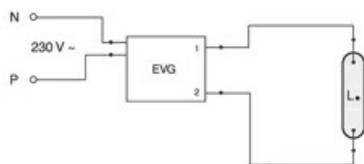
L. = lamp

EVG = electronic ballast

P = phase

N = zero potential

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ECG-operation

Key:

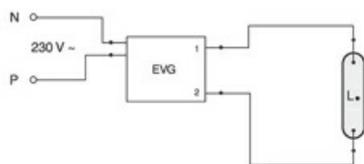
L. = lamp

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N = zero potential

The required control gear (here electronic ballast) for the lamps operation is usually mounted in the suitable luminaire in an appropriate electric circuit. Changes of any kind are to be conducted by qualified and specialised staff, only. Thus, this circuit example is to be understood merely as a technical background information for interested users.



ECG-operation

Key:

L. = lamp

EVG = electronic ballast

P = phase

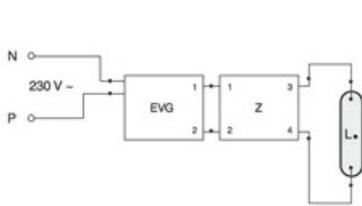
N = zero potential

The required control gear (here electronic ballast) for the lamps operation is usually mounted in the suitable luminaire in an appropriate electric circuit. Changes of any kind are to be conducted by qualified and specialised staff, only. Thus, this circuit example is to be understood merely as a technical background information for interested users.

High pressure sodium lamp

RNP-T 100W/230V/E40 EX

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ECG-operation with additional ignitor

Key:

L = lamp

EVG = electronic ballast

P = phase

N = zero potential

Z = ignitor

The required control gear (here ignitor and electronic ballast) for the lamps operation is usually mounted in the suitable luminaire in an appropriate electric circuit. Changes of any kind are to be conducted by qualified and specialised staff, only. Thus, this circuit example is to be understood merely as a technical background information for interested users.

Special features



General notes

The technical design data in accordance with DIN and IEC. The producer does not take any responsibility for damage to persons or property in case of unsuitable operation or handling of the product. Operating data and dimensions are valid within the usual tolerances. Related lamp types (different bases, mains voltages) may be available on request. Sale and delivery are effected in accordance with the Radium Terms of Delivery and Payment valid on the day of conclusion of contract. Packing units offer economical advantages to the purchase and logistic department. Please match your quantity volume accordingly. For orders of a minimum quantity (clefs) with a lamp model the amount lower than the volume of each packaging unit, we will invoice 10 % additional charge per lamp type. Technical changes and terms of delivery are reserved. Manipulation of any kind to packaging or product is not permissible as this will violate Radium brand rights. Furthermore, technical properties of the product can change to its disadvantage or even destruction. Therefore, Radium cannot be responsible for consequential damages.

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All technical data without guarantee.