

Metal halide lamp with quartz burner HRI-TS 150W/NDL/230/XLN/RX7S

Logistic Data

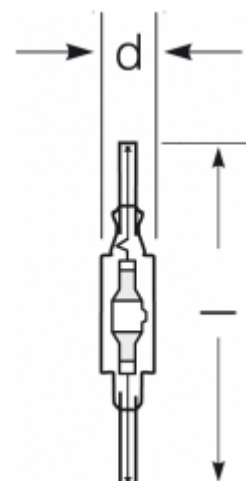
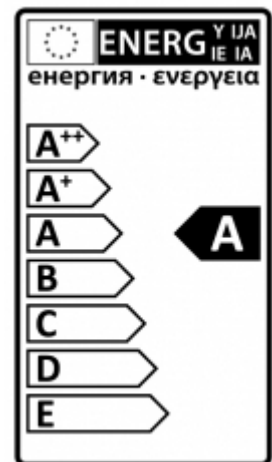
Article No.	32418876
Code	HRI-TS 150W/NDL/230/XLN/RX7S
Product EAN	4008597188763
Customs tariff no.	85393290
Box quantity (pcs.)	12
EAN Box	4008597488764
Gross weight of box in kg	0.498
Length of box in m	0.15
Width of box in m	0.12
Height of box in m	0.16
Pieces per palette	8160
ETIM class	EC000037
ETIM class name	Metal halide lamp without reflector

Electric Parameters

Lamp nominal wattage	150 W
Rated wattage	150.0 W
Mains voltage	230 V
Ignition voltage	4.0 bis 5.0
Hot restrike voltage	35 kV
Lamp's nominal current	1.8 A
Nominal choke current	1.8 A
Compensation capacitor for 50Hz operation	20 µF
Energy Consumption kWh/1000h	165

Light Application Parameters

Luminous flux	12500 lm
Rated lamp luminous flux	12500 lm
Luminous efficiency of lamp	83.33 lm/W
Colour temperature	4200 K
Colour rendering index Ra	85
Coloure rendering index Ra nominal	85



Service Life

Mean service life	12000 h
Info about service life	12B50, 50Hz
Lamp survival factor at 2000h	0.95
Lamp survival factor at 4000h	0.90
Lamp survival factor at 6000h	0.80
Lamp survival factor at 8000h	0.85
Lamp survival factor at 12000h	0.50
Lumen maintenance at 2000h	0.86
Lumen maintenance at 4000h	0.84
Lumen maintenance at 6000h	0.80
Lumen maintenance at 8000h	0.77
Lumen maintenance at 12000h	0.73
Operation mode for LLMF/LSF	50 Hz

Specification

Diameter max.	23 mm
Length max.	135 mm
Overall length	135 mm
Contact distance	132 mm
dimmbable	nein
Energylabel from 2013	A
Mercury content	12.3 mg
Base	RX7s-24

Notes on Operation

Starter / Ignitor	external; ECG
Burning position	p45

Miscellaneous

EU Directive	TIM
ILCOS name	MD/UB-150/842-H-RX7s
LBS name	HIT-DE-h45 400W/952 Fc2

Notes:

Excellence metal halide lamp with quartz burner

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

The 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).

Notes

Base



RX7s
IEC/EN 60061-1
sheet 7004-92A-4

Spectrum

Natural daylight is a mixture of direct sunlight and the light of the sky. Therefore, its spectral composition changes permanently due to the changing time of day. The standardised light classification D65 corresponds to a daylight with a colour temperature of approximately 6500 K.

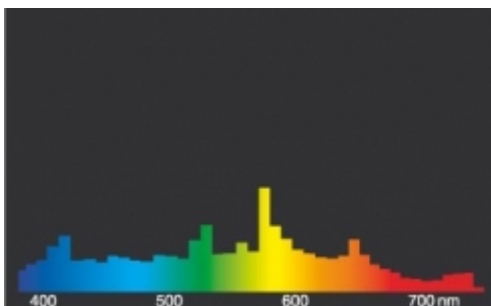
Every discharge lamp type has got an individual spectral power distribution according to its chemical filling. From this result important properties light colour or colour rendering.

Should the spectral lines be very close together the lamp presumably has got a very good colour rendering index, so, Ra might be near 100. Does the spectrum rather look like single lines or frayed out the colour rendering of the lamp will probably be not as good.

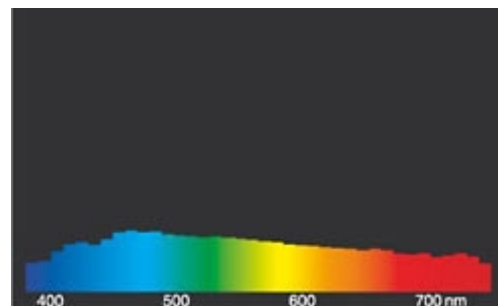
If number and height of the spectral lines within the blue range (around 400 nm) prevails it might be a lamp with a rather cold light colour like for example daylight. On the other hand, should the red (around 700 nm) or the red and yellow (around 600 nm) range be dominant one can assume that the lamp will be a rather warm light colour like WDL.

After the lamp start a metal halide lamp needs about 2-4 minutes time to reach its full luminous flux, all colours in the spectrum are within the discharge arc then.

Visible region from 380 to 780 nm; height of graph corresponding with relative spectral emission (400mW/klm) per 10nm.

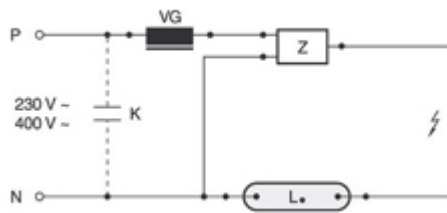


HRI.../NDL



daylight(D 65)

Circuit diagram(s)



Standard circuit HID with external ignitor

Key:

L. = lamp

VG = electromagnetic ballast (KVG/VVG)

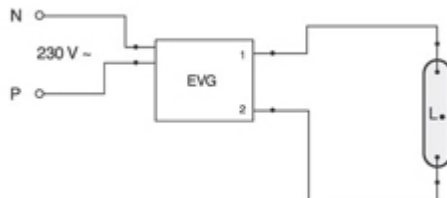
P = phase

N = zero potential

K = p. f. correction capacitor

Z = ignitor

The required control gear (here ignitor and ballast) for the lamp's 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 up to 400W

Key:

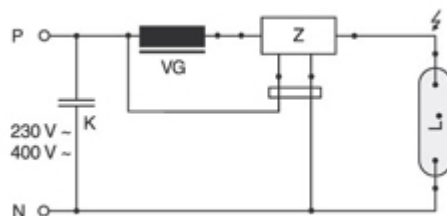
L. = lamp

EVG = electronic ballast

P = phase

N = zero potential

The required control gear (here electronic ballast) for the lamp's 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.



Circuit for 230V-HID-lamps suitable for hot restrike

Key:

L. = lamp

VG = electromagnetic ballast (KVG/VVG)

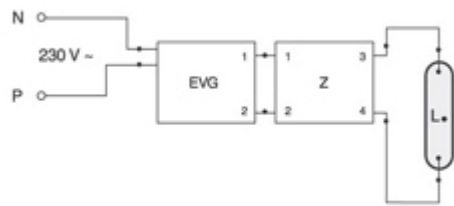
P = phase

N = zero potential

K = p. f. correction capacitor

Z = ignitor

The required control gear (here ignitor and ballast) for the lamp's 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 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 lamp's 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



Please, dump as special waste, **no ordinary household waste!**

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 (clefts) 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.

® = Registered trademark

Subject to change without notice. Errors and omissions excepted.

All technical data without guarantee.