

















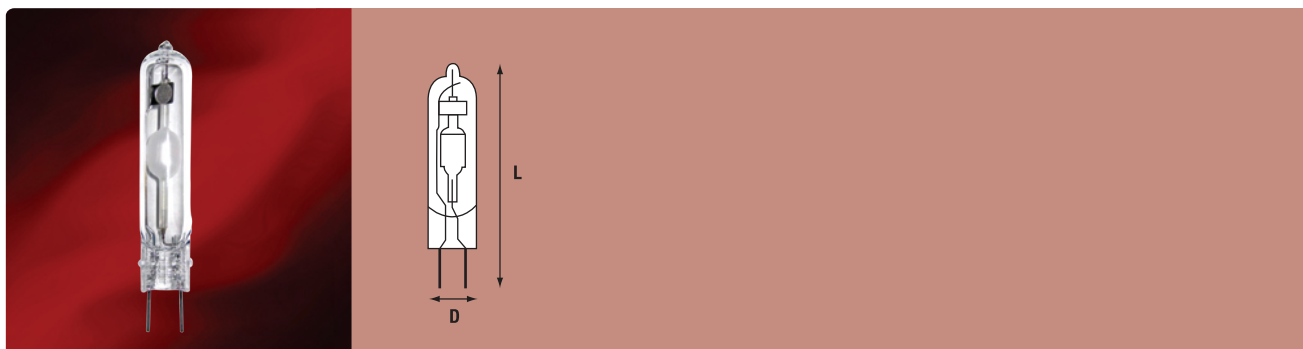




# High Intensity Discharge Lamps

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## G8.5 Bi-pin Ceramic Metal Halide Lamps



Lamp Code	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (mm)	Length L (mm)	CRI
<b>MHC35/G8.5/WDL/830</b>	MHC35W/G8.5/3K	35	3300	G8.5	14	85	80
<b>MHC35/G8.5/NDL/942</b>	MHC35W/G8.5/4K	35	3200	G8.5	14	85	90
<b>MHC70/G8.5/WDL/830</b>	MHC70W/G8.5/3K	70	6400	G8.5	14	85	80
<b>MHC70/G8.5/NDL/942</b>	MHC70W/G8.5/4K	70	6300	G8.5	14	85	90

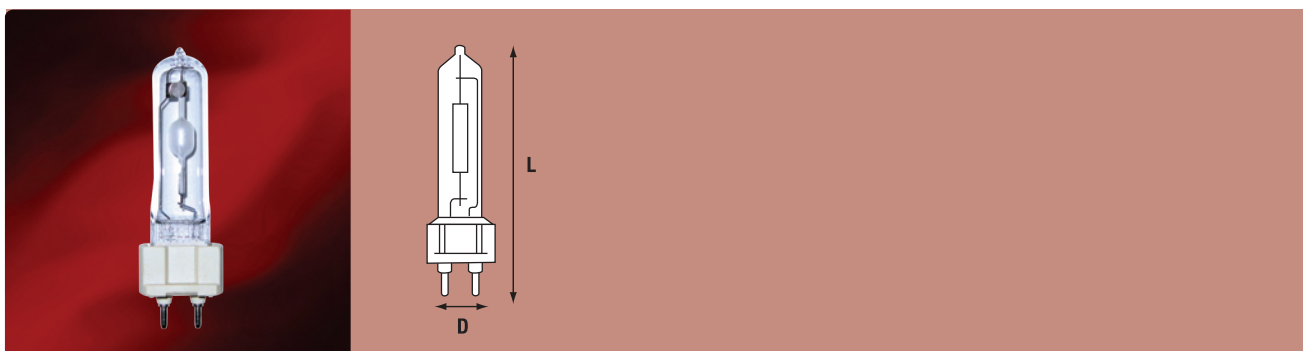
- Universal burning position
- Uniform distribution of light
- Excellent colour rendering
- High colour stability
- High luminous flux
- Long lamp life 10,000 hours

### Applications

- Shop interiors
- Shopping arcade
- Hotel, Restaurant
- Museums, Exhibition



## G12 Bi-pin Ceramic Metal Halide Lamps

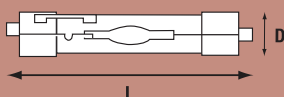


Lamp Code	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (mm)	Length L (mm)	CRI
<b>MHC35/G12/WDL/830</b>	MHC35W/G12/3K	35	3300	G12	19	100	80
<b>MHC35/G12/NDL/942</b>	MHC35W/G12/4K	35	3100	G12	19	100	90
<b>MHC70/G12/WDL/830</b>	MHC70W/G12/3K	70	6500	G12	19	100	80
<b>MHC70/G12/NDL/942</b>	MHC70W/G12/4K	70	6300	G12	19	100	90
<b>MHC150/G12/WDL/830</b>	MHC150W/G12/3K	150	13500	G12	19	100	80
<b>MHC150/G12/NDL/942</b>	MHC150W/G12/4K	150	13000	G12	19	100	90



**KANDOLite®**  
Brings you Light and Prosperity

## Double-Ended Ceramic Metal Halide Lamps



Lamp Code	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (mm)	Length L (mm)	CRI
<b>MHC-DE 70/WDL/830</b>	MHCDE70W/3K	70	6600	RX7s	22	118	80
<b>MHC-DE 70/NDL/942</b>	MHCDE70W/4K	70	6200	RX7s	22	118	90
<b>MHC-DE 150/WDL/830</b>	MHCDE150W/3K	150	13500	RX7s-24	25	135	80
<b>MHC-DE 150/NDL/942</b>	MHCDE150W/4K	150	14400	RX7s-24	25	135	90

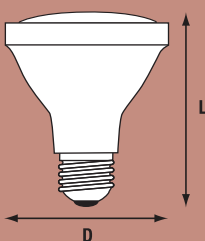
- Burning position: Horizontal +/- 45°
- Uniform distribution of light
- Excellent colour rendering
- High colour stability
- High luminous flux
- Long lamp life 10,000 hours

### Applications

- Shop interiors
- Shopping arcade
- Hotel, Restaurant
- Museums, Exhibition



## PAR20 Ceramic Metal Halide Lamps



Lamp Code	Description	Wattage (W)	Intensity (cd)	Base	Diameter D (mm)	Length L (mm)	CRI
<b>MHC35/PAR20/WDL/830/SP</b>	MHC35W/PA20/3K/SP	35	21500	E27	63	95	80
<b>MHC35/PAR20/WDL/830/FL</b>	MHC35W/PA20/3K/FL	35	6000	E27	63	95	80

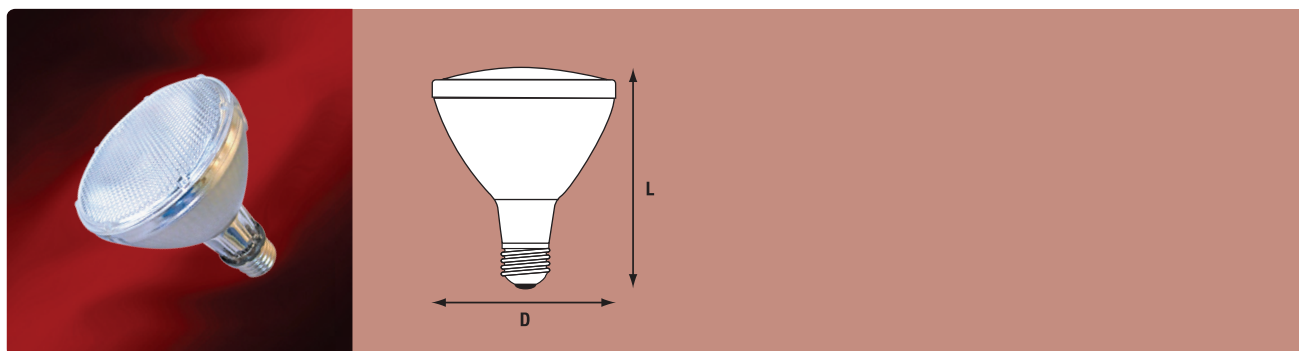
- Universal Burning position
- Uniform distribution of light
- Excellent colour rendering
- High colour stability
- High luminous flux
- Long lamp life 10,000 hours

### Applications

- Shop interiors
- Shopping arcade
- Hotel, Restaurant
- Museums, Exhibition



## PAR30 Ceramic Metal Halide Lamps



Lamp Code	Description	Wattage (W)	Intensity (cd)	Base	Diameter D (mm)	Length L (mm)	CRI
MHC35/PAR30/WDL/830/SP	MHC35W/PAR30/3K/SP	35	42000	E27	95	120	80
MHC35/PAR30/WDL/830/FL	MHC35W/PAR30/3K/FL	35	8500	E27	95	120	80
MHC70/PAR30/WDL/830/SP	MHC70W/PAR30/3K/SP	70	65000	E27	95	120	80
MHC70/PAR30/WDL/830/FL	MHC70W/PAR30/3K/FL	70	10000	E27	95	120	80

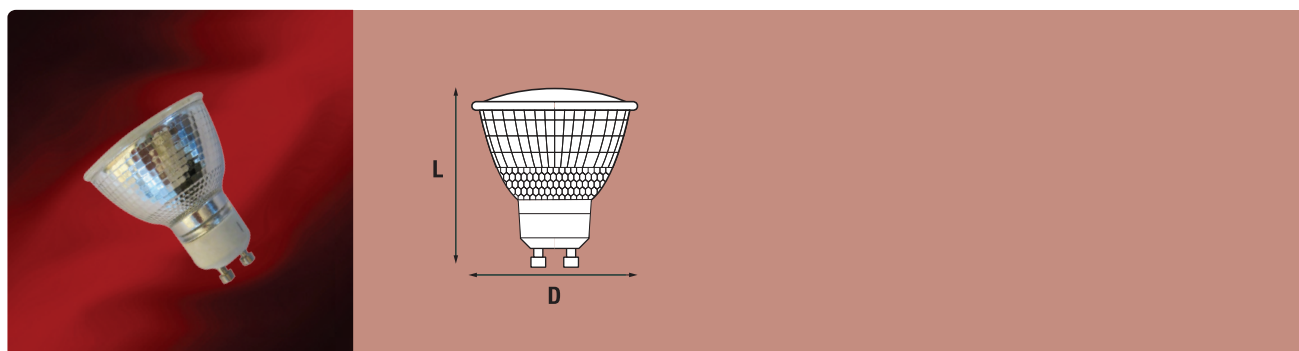
- Universal Burning position
- Uniform distribution of light
- Excellent colour rendering
- High colour stability
- High luminous flux
- Long lamp life 10,000 hours

### Applications

- Shop interiors
- Shopping arcade
- Hotel, Restaurant
- Museums, Exhibition



## GX10 Single-Ended Metal Halide Lamps



Quartz Arc-tube Technology

Lamp Code	Description	Wattage (W)	Intensity (cd)	Base	Diameter D (mm)	Length L (mm)	CRI
MH-GX10 35/WDL/30°	MHG10/35W/3K	35	5000	GX10	51	65	>70
MH-GX10 35/NDL/30°	MHG10/35W/4K	35	5000	GX10	51	65	>70

- Universal burning position
- Most compact metal halide lamps with stable light colour
- Crispy white light
- Easy installation with new GX10 twist & lock base
- Quick warm up time 2 mins; hot restart time 5 mins
- Long life time 4,000 hours

### Applications

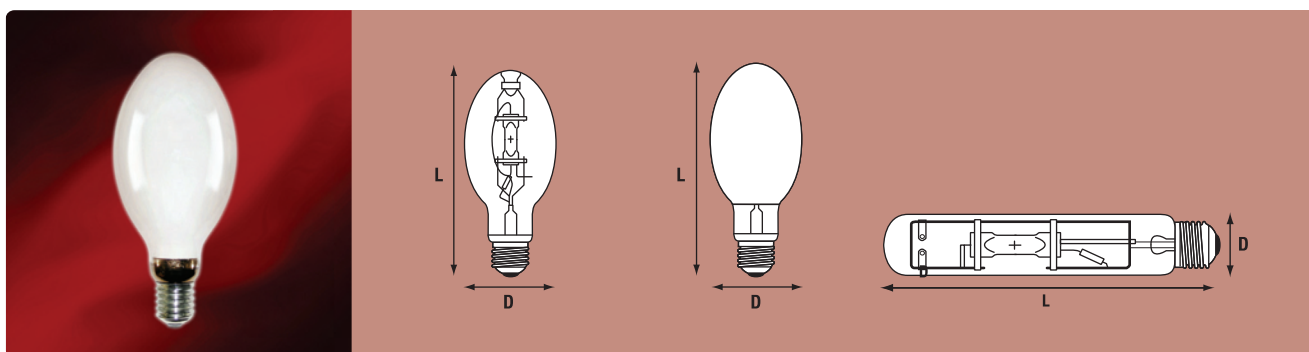
- Interior applications in retail
- Hotel, Restaurant
- Gallery
- Residential





# Single-Ended Metal Halide Lamps - European System

## For Enclosed Fixtures

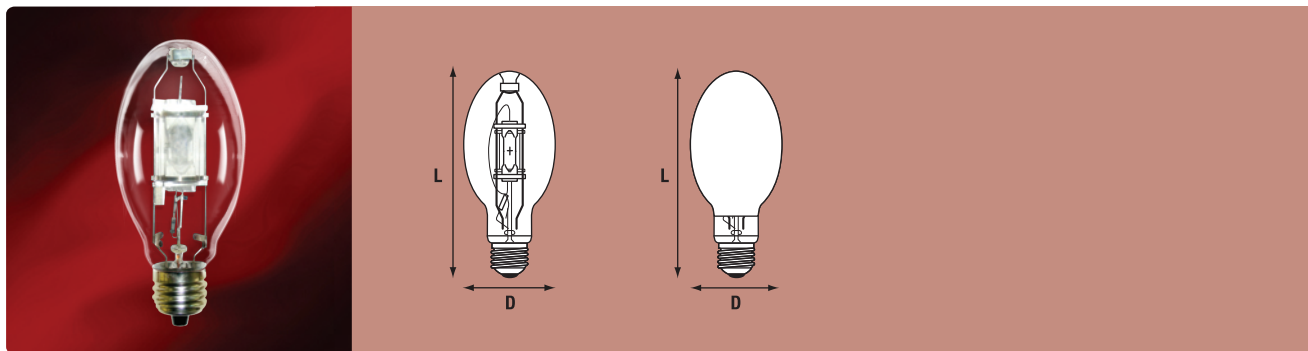


- High Luminous efficacy with very good color rendition
- Universal burning position
- Long burning hours

Lamp Code	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (mm)	Length L (mm)
<b>Elliptical bulb</b>						
MH-E70/WDL/CL	MH70W/ED54/clear/E27/3K	70	5200	E27	55	137± 3
MH-E70/WDL	MH70W/ED54/coated/E27/3K	70	4800	E27	55	137± 3
MH-E70/NDL/CL	MH70W/ED54/clear/E27/4K	70	5500	E27	55	137± 3
MH-E70/NDL	MH70W/ED54/coated/E27/4K	70	5100	E27	55	137± 3
MH-E100/WDL/CL	MH100W/ED54/clear/E27/3K	100	8400	E27	55	137± 3
MH-E100/WDL	MH100W/ED54/coated/E27/3K	100	7800	E27	55	137± 3
MH-E100/NDL/CL	MH100W/ED54/clear/E27/4K	100	8400	E27	55	137± 3
MH-E100/NDL	MH100W/ED54/coated/E27/4K	100	7800	E27	55	137± 3
MH-E150/WDL/CL	MH150W/ED54/clear/E27/3K	150	12500	E27	55	137± 3
MH-E150/WDL	MH150W/ED54/coated/E27/3K	150	11800	E27	55	137± 3
MH-E150/NDL/CL	MH150W/ED54/clear/E27/4K	150	12500	E27	55	137± 3
MH-E150/NDL	MH150W/ED54/coated/E27/4K	150	11800	E27	55	137± 3
MH-E250/NDL	MH250W/ED90/coated/E40/4K	250	*18000-25000	E40	90	203± 3
MH-E250/D(3.0A)	MH250W/ED90/coated/E40/6K	250	19000	E40	90	203± 3
MH-E400/NDL	MH400W/ED118/coated/E40/4 K	400	*35000-40000	E40	120	275± 3
MH-E400/D(4.0/4.4A)	MH400W/ED118/coated/E40/6 K	400	30000	E40	120	275± 3
<b>Tubular bulb</b>						
MH-T250/NDL	MH250W/T46/clear/E40/4K	250	*17000-22000	E40	46	259± 3
MH-T250/D(3.0A)	MH250W/T46/clear/E40/6K	250	19000	E40	46	259± 3
MH-T400/NDL	MH400W/T46/clear/E40/4K	400	*34000-38000	E40	46	281± 3
MH-T400/D(4.0/4.4A)	MH400W/T46/clear/E40/6K	400	30000	E40	46	281± 3
MH-T600/D(6.2A)	MH600W/T46/clear/E40/6K	600	50000	E40	80	340± 3
MH-T1000/NDL(8.0A)	MH1000W/T64/clear/E40/4K	1000	80000	E40	64	377± 3

## Special 'O' Rated Metal Halide Lamps – European System

### MHP Series – With Shrouded Arc-tube For Open Fixtures

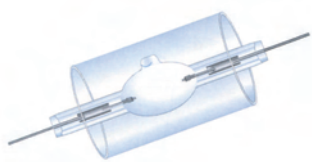


- High Luminous efficacy with very good colour rendition
- Universal burning position
- Long burning hours
- 'O' rated lamps permit greater flexibility in fixture design, reduce fixture operating temperatures and lower fixture costs



#### Shrouded arc-tube

The shroud helps contain hot particles in the lamp in case the arc-tube fails, hence there is no need to enclose the lamp

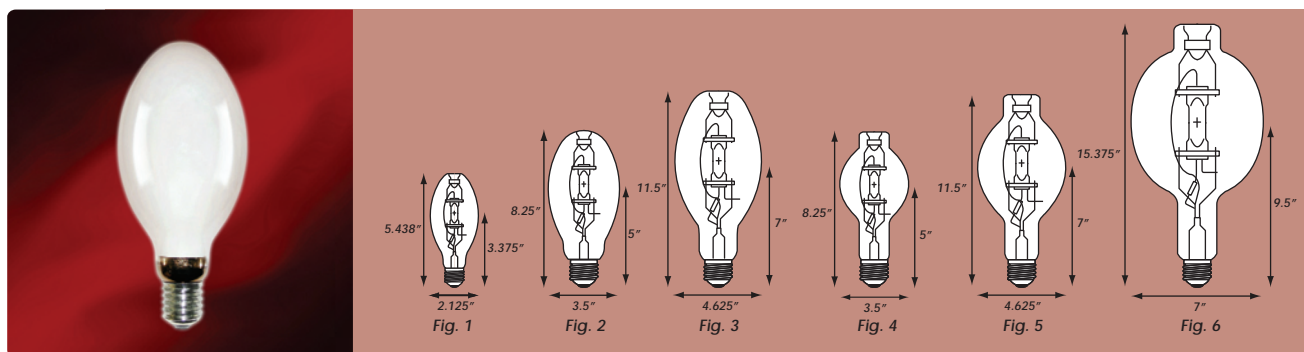


#### Quartz Arc-tube Technology

Lamp Code	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (mm)	Length L (mm)
MHP-E70/WDL/CL	MHP70W/ED54/clear/E27/3K	70	5200	E27	55	137±3
MHP-E70/WDL	MHP70W/ED54/coated/E27/3K	70	4800	E27	55	137±3
MHP-E70/NDL/CL	MHP70W/ED54/clear/E27/4K	70	5500	E27	55	137±3
MHP-E70/NDL	MHP70W/ED54/coated/E27/4K	70	5100	E27	55	137±3
MHP-E100/WDL/CL	MHP100W/ED54/clear/E27/3K	100	8400	E27	55	137±3
MHP-E100/WDL	MHP100W/ED54/coated/E27/3K	100	7800	E27	55	137±3
MHP-E100/NDL/CL	MHP100W/ED54/clear/E27/4K	100	8400	E27	55	137±3
MHP-E100/NDL	MHP100W/ED54/coated/E27/4K	100	7800	E27	55	137±3
MHP-E150/WDL/CL	MHP150W/ED54/clear/E27/3K	150	12500	E27	55	137±3
MHP-E150/WDL	MHP150W/ED54/coated/E27/3K	150	11800	E27	55	137±3
MHP-E150/NDL/CL	MHP150W/ED54/clear/E27/4K	150	12500	E27	55	137±3
MHP-E150/NDL	MHP150W/ED54/coated/E27/4K	150	11800	E27	55	137±3
MHP-E250/NDL	MHP250W/ED90/coated/E40/4K	250	20000	E40	90	203±3
MHP-E250/D	MHP250W/ED90/coated/E40/6K	250	19000	E40	90	203±3
MHP-E400/NDL	MHP400W/ED118/coated/E40/4K	400	34000	E40	120	275±3
MHP-E400/D	MHP400W/ED118/coated/E40/6K	400	30000	E40	120	275±3

# Single-Ended Metal Halide Lamps – N. American System

## For Enclosed Fixtures



- High Luminous efficacy with very good colour rendition
- Universal burning position
- Long burning hours

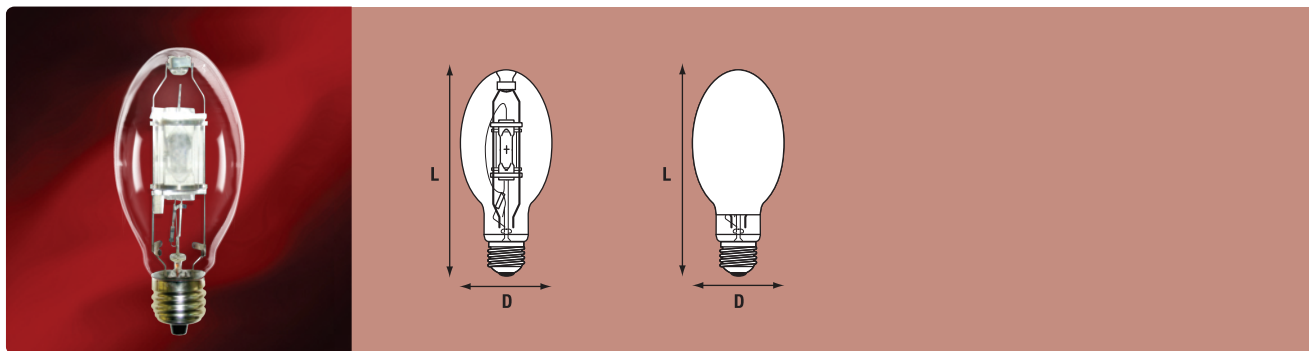


Quartz Arc-tube Technology

Lamp Code	ANSI Spec	Description	Wattage (W)	Lumen (lm)	Base	Fig.
MH50/4K	M110	MH50W/ED17/clear/MED/4K	50	3400	Medium	1
MH50/C/4K	M110	MH50W/ED17/coated/MED/4K	50	3200	Medium	1
MH70/3K	M98	MH70W/ED17/clear/MED/3K	70	5200	Medium	1
MH70/C/3K	M98	MH70W/ED17/coated/MED/3K	70	4800	Medium	1
MH70/4K	M98	MH70W/ED17/clear/MED/4K	70	5500	Medium	1
MH70/C/4K	M98	MH70W/ED17/coated/MED/4K	70	5100	Medium	1
MH100/3K	M90	MH100W/ED17/clear/MED/3K	100	8400	Medium	1
MH100/C/3K	M90	MH100W/ED17/coated/MED/3K	100	7800	Medium	1
MH100/4K	M90	MH100W/ED17/clear/MED/4K	100	8400	Medium	1
MH100/C/4K	M90	MH100W/ED17/coated/MED/4K	100	7800	Medium	1
MH150/3K	M102	MH150W/ED17/clear/MED/3K	150	12500	Medium	1
MH150/C/3K	M102	MH150W/ED17/coated/MED/3K	150	11800	Medium	1
MH150/4K	M102	MH150W/ED17/clear/MED/4K	150	12500	Medium	1
MH150/C/4K	M102	MH150W/ED17/coated/MED/4K	150	11800	Medium	1
MH175/4K	M57	MH175W/ED28/clear/MOG/4K	175	14000	Mogul	2
MH175/C/4K	M57	MH175W/ED28/coated/MOG/4K	175	13200	Mogul	2
MH250/4K	M58	MH250W/ED28/clear/MOG/4K	250	21000	Mogul	2
MH250/C/4K	M58	MH250W/ED28/coated/MOG/4K	250	20000	Mogul	2
MH250/BT28/4K	M58	MH250W/BT28/clear/MOG/4K	250	21000	Mogul	4
MH250/BT28/C/4K	M58	MH250W/BT28/coated/MOG/4K	250	20000	Mogul	4
MH400/4K	M59	MH400W/ED37/clear/MOG/4K	400	36000	Mogul	3
MH400/C/4K	M59	MH400W/ED37/coated/MOG/4K	400	34000	Mogul	3
MH400/BT37/4K	M59	MH400W/BT37/clear/MOG/4K	400	36000	Mogul	5
MH400/BT37/C/4K	M59	MH400W/BT37/coated/MOG/4K	400	34000	Mogul	5
MH1000/4K	M47	MH1000W/BT56/clear/MOG/4K	1000	110000	Mogul	6
MH1000/C/4K	M47	MH1000W/BT56/coated/MOG/4K	1000	105000	Mogul	6
MH1500/4K	M48	MH1500W/BT56/clear/MOG/4K	1500	155000	Mogul	6
<b>Special Versions</b>						
MH175/MED/4K	M57	MH175W/ED28/clear/MED/4K	175	14000	Medium	2
MH175/MED/C/4K	M57	MH175W/ED28/coated/MED/4K	175	13200	Medium	2
MH400/ED28/4K	M59	MH400W/ED28/clear/MOG/4K	400	36000	Mogul	2
MH1000/BT37/4K	M47	MH1000W/BT37/clear/MOG/4K	1000	110000	Mogul	5

## Special 'O' Rated Metal Halide Lamps - N. American System

### MHP Series – With Shrouded Arc-tube For Open Fixtures



- High Luminous efficacy with very good color rendition
- Universal burning position
- Long burning hours
- 'O' rated lamps permit greater flexibility in fixture design, reduce fixture operating temperatures and lower fixture costs
- Special EX39 socket is required for 175W, 250W, 400W and 1000W lamps



E/S lamp with E39 mogul base in an EX39 restricted socket



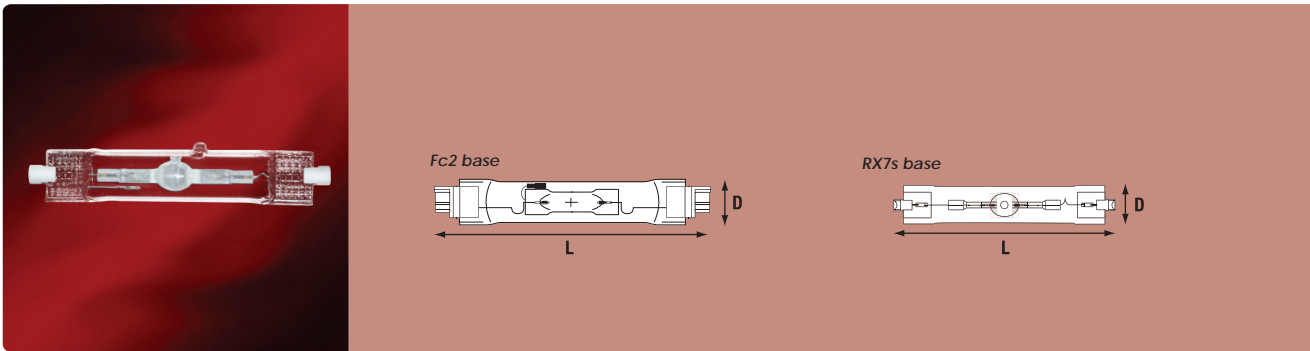
'O' lamp with EX39 restricted base in an EX39 restricted socket

#### Quartz Arc-tube Technology

Lamp Code	ANSI Spec	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (inch)	Length L (inch)
MHP50/4K	M110	MHP50W/EDX17/clear/MED/4K	50	3400	Medium	2.13	5.37
MHP50/C/4K	M110	MHP50W/ED17/coated/MED/4K	50	3200	Medium	2.13	5.37
MHP70/3K	M98	MHP70W/ED17/clear/MED/3K	70	5200	Medium	2.13	5.37
MHP70/C/3K	M98	MHP70W/ED17/coated/MED/3K	70	4800	Medium	2.13	5.37
MHP70/4K	M98	MHP70W/ED17/clear/MED/4K	70	5500	Medium	2.13	5.37
MHP70/C/4K	M98	MHP70W/ED17/coated/MED/4K	70	5100	Medium	2.13	5.37
MHP100/3K	M90	MHP100W/ED17/clear/MED/3K	100	8400	Medium	2.13	5.37
MHP100/C/3K	M90	MHP100W/ED17/coated/MED/3K	100	7800	Medium	2.13	5.37
MHP100/4K	M90	MHP100W/ED17/clear/MED/4K	100	8400	Medium	2.13	5.37
MHP100/C/4K	M90	MHP100W/ED17/coated/MED/4K	100	7800	Medium	2.13	5.37
MHP150/3K	M102	MHP150W/ED17/clear/MED/3K	150	12500	Medium	2.13	5.37
MHP150/C/3K	M102	MHP150W/ED17/coated/MED/3K	150	11800	Medium	2.13	5.37
MHP150/4K	M102	MHP150W/ED17/clear/MED/4K	150	12500	Medium	2.13	5.37
MHP150/C/4K	M102	MHP150W/ED17/coated/MED/4K	150	11800	Medium	2.13	5.37
MHP175/4K	M57	MHP175W/ED28/clear/EMOG/4K	175	14000	EX39	3.5	8.25
MHP175/C/4K	M57	MHP175W/ED28/coated/EMOG/4K	175	13200	EX39	3.5	8.25
MHP250/4K	M58	MHP250W/ED28/clear/EMOG/4K	250	21000	EX39	3.5	8.25
MHP250/C/4K	M58	MHP250W/ED28/coated/EMOG/4K	250	20000	EX39	3.5	8.25
MHP400/4K	M59	MHP400W/ED37/clear/EMOG/4K	400	36000	EX39	4.62	11.25
MHP400/C/4K	M59	MHP400W/ED37/coated/EMOG/4K	400	34000	EX39	4.62	11.25
MHP1000/4K	M47	MHP1000W/ED56/clear/EMOG/4K	1000	110000	EX39	7	15.37
MHP1000/C/4K	M47	MHP1000W/ED56/coated/EMOG/4K	1000	105000	EX39	7	15.37



Double-Ended Metal Halide Lamps – Ignitor Pluse Start



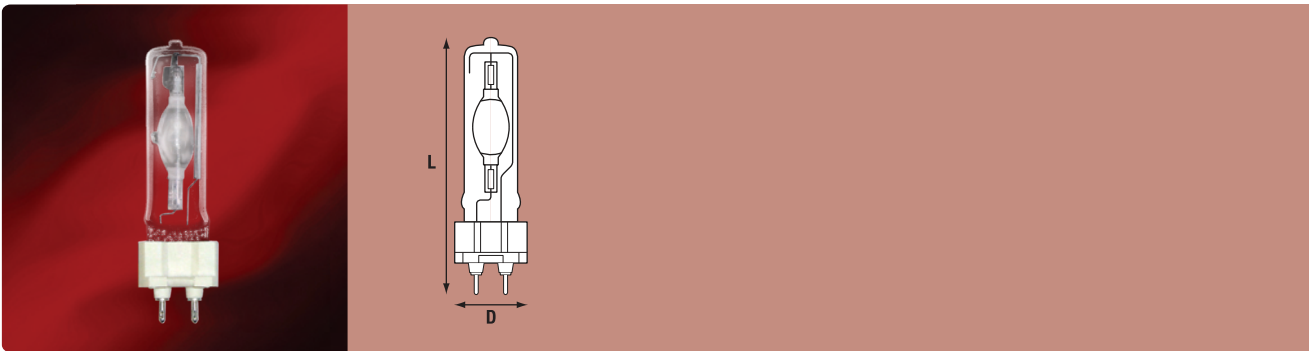
Quartz Arc-tube Technology

Lamp Code	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (mm)	Length L (mm)
MH-DE 70/WDL	MHDE70W/3K	70	5000	RX7s	20	120
MH-DE 70/NDL	MHDE70W/4K	70	5500	RX7s	20	120
MH-DE 100/WDL	MHDE100W/3K	100	6400	RX7s	23	138
MH-DE 100/NDL	MHDE100W/4K	100	6800	RX7s	23	138
MH-DE 150/WDL	MHDE150W/3K	150	11500	RX7s	23	138
MH-DE 150/NDL	MHDE150W/4K	150	12000	RX7s	23	138
MH-DE 250/NDL	MHDE250W/4K	250	20000	Fc2	25	163
MH-DE 400/NDL	MHDE400W/4K	400	34000	Fc2	30	254

- High luminous efficacy
- Very good colour rendition
- Long service life 8000 hours



G12 Bi-pin Metal Halide Lamps – Ignitor Pluse Start

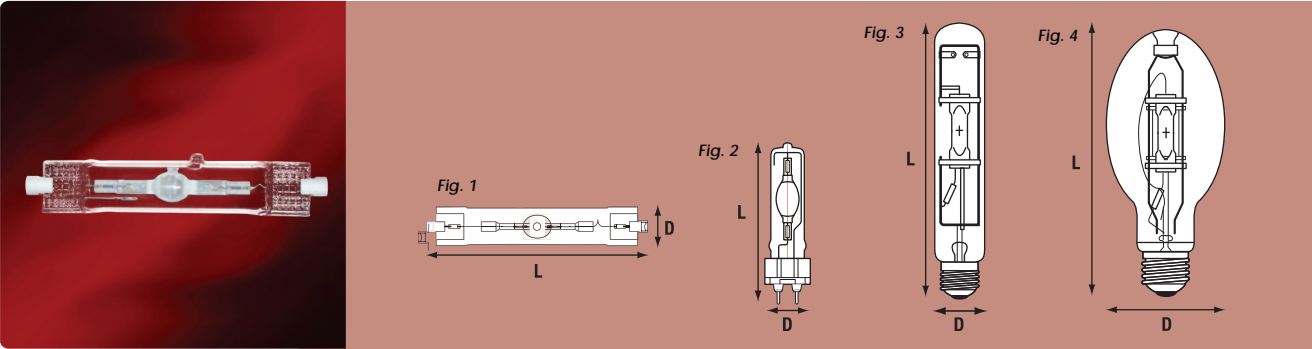


Quartz Arc-tube Technology

Lamp Code	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (mm)	Length L (mm)
MH70/G12/WDL	MH70W/G12/3K	70	5200	G12	25	110
MH70/G12/NDL	MH70W/G12/4K	70	5500	G12	25	110
MH100/G12/WDL	MH100W/G12/3K	100	8000	G12	25	110
MH100/G12/NDL	MH100W/G12/4K	100	8400	G12	25	110
MH150/G12/WDL	MH150W/G12/3K	150	12000	G12	25	110
MH150/G12/NDL	MH150W/G12/4K	150	12500	G12	25	110

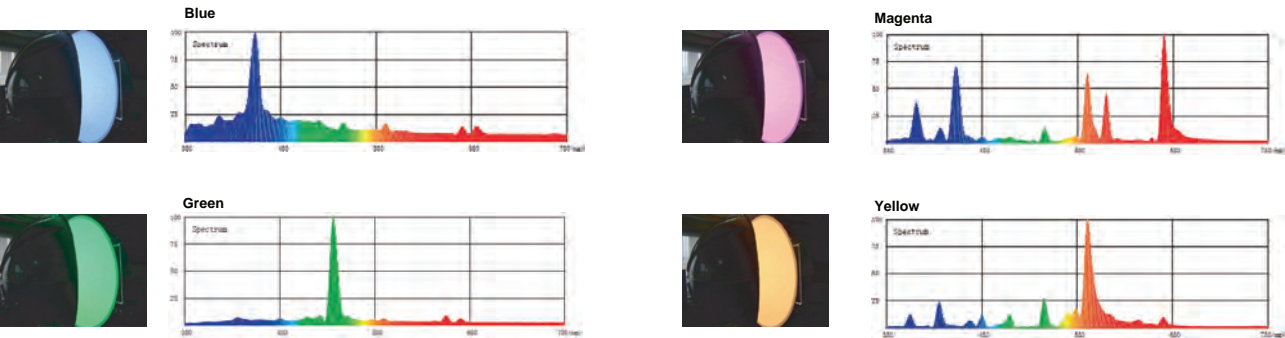
# Special Colour Metal Halide Lamps

Creation of vivid and rich colours without the need of filters for applications with style and appeal



## Colour High Intensity Discharge Lamps

- Create colour effect without the need of filters
- White, Blue, Green, Magenta, Yellow

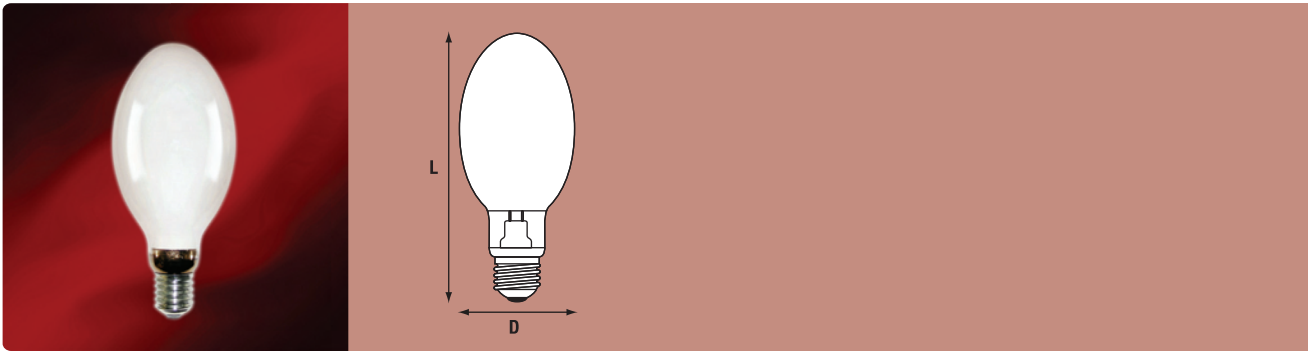


## Aquarium Metal Halide 10,000K & 14,000K :

- Neutral daylight 10,000K and 14,000K for daylight simulation
- Aquariums: simulate ocean condition for coral growth
- Also available with 20,000K for deep water penetration

Lamp Code	Wattage (W)	Base	Colours	Diameter D (mm)	Length L (mm)	Fig.
For special decor flood lighting						
MH-DE 70W	70	RX7s	Blue, Green, Magenta, Yellow	20	120	1
MH-DE 150W	150	RX7s	Blue, Green, Magenta, Yellow	23	138	1
MH-E 70W	70	E27	Blue, Green, Magenta, Yellow	55	137	4
MH-E 100W	100	E27	Blue, Green, Magenta, Yellow	55	137	4
MH-E 150W	150	E27	Blue, Green, Magenta, Yellow	55	137	4
MH-E 175W	175	E27	Blue, Green, Magenta, Yellow	55	137	4
MH-E 250W	250	E40	Blue, Green, Magenta, Yellow	90	203	4
MH-E 400W	400	E40	Blue, Green, Magenta, Yellow	120	275	4
MH-T 250W	250	E40	Blue, Green, Magenta, Yellow	46	259	3
MH-T 400W	400	E40	Blue, Green, Magenta, Yellow	46	281	3
MH 70W G12	70	G12	Blue, Green, Magenta, Yellow	25	110	2
MH 150W G12	150	G12	Blue, Green, Magenta, Yellow	25	110	2
For aquarium lighting						
MH-DE 70W	70	RX7s	10000K, 14000K, 20000K	20	120	1
MH-DE 150W	150	RX7s	10000K, 14000K, 20000K	23	138	1
MH-T 250W	250	E40	10000K, 14000K, 20000K	46	259	3

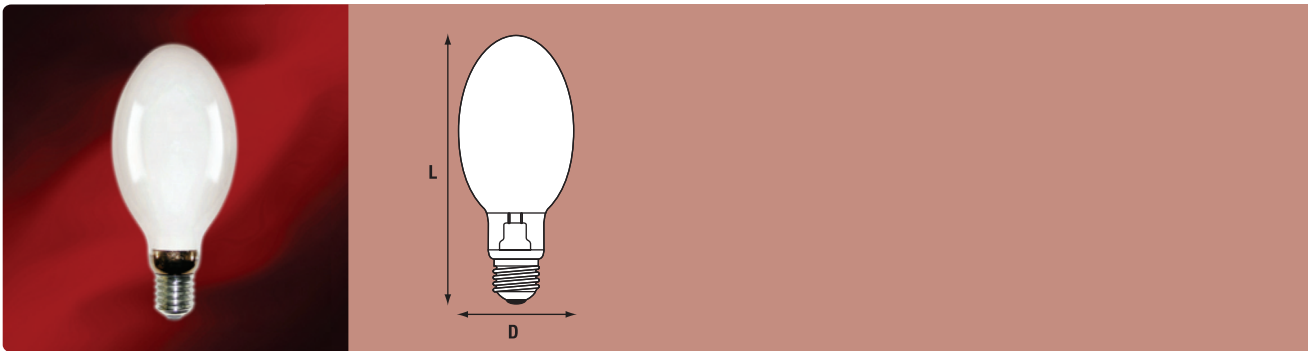
## Mercury Vapor Lamps - European System



- High Luminous efficacy
- Universal burning position
- Long average burning hours, up to 10000 hours service life

Lamp Code	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (mm)	Length L (mm)
HQ50-W	HQ50/ED55/coated/E27	50	1800	E27	55	130
HQ80-W	HQ80/ED70/coated/E27	80	3800	E27	70	156
HQ125-W	HQ125/ED75/coated/E27	125	6200	E27	75	170
HQ250-W	HQ250/ED90/coated/E40	250	13000	E40	90	226
HQ400-W	HQ400/ED120/coated/E40	400	23000	E40	120	290

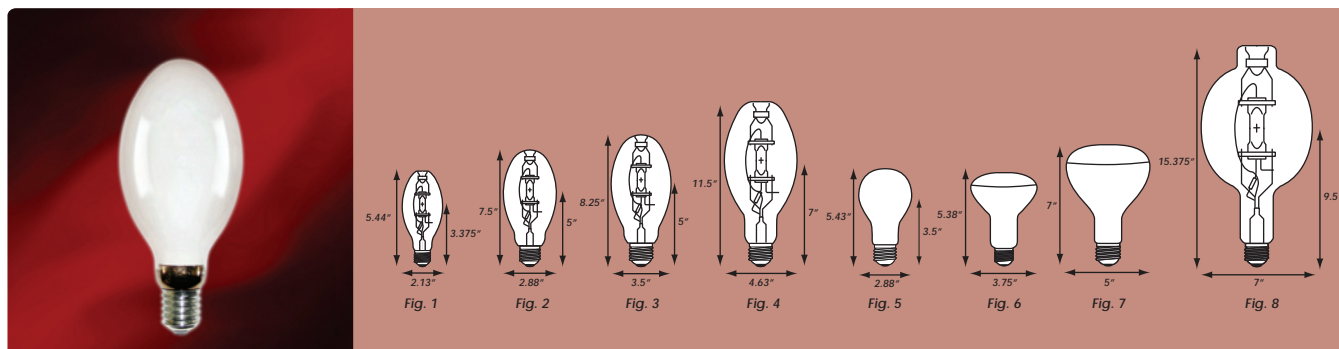
## Self-Ballasted Mercury Vapor Lamps - European System



- Operating voltage options : 220V, 230V and 240V
- High Luminous efficacy
- Universal burning position
- Long average burning hours of up to 5000 hours service life

Lamp Code	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (mm)	Length L (mm)
HML 160W	HML160/ED75/coated/E27	160	3100	E27	75	170
HML 250W-E27	HML250/ED90/coated/E27	250	5600	E27	90	226
HML 250W-E40	HML250/ED90/coated/E40	250	5600	E40	90	226
HML 500W	HML500/ED120/coated/E40	500	14000	E40	120	290

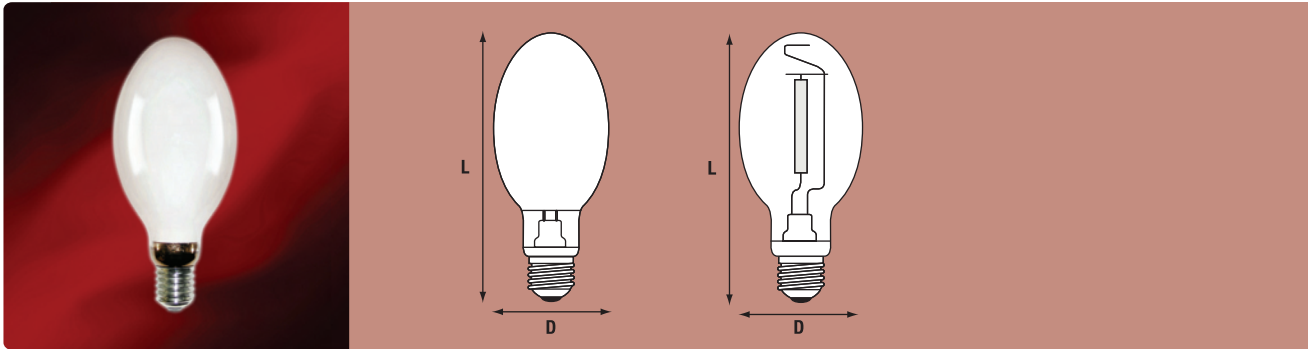
# Mercury Vapor Lamps - N. American System



- High Luminous efficacy
- Universal burning position
- Long average burning hours

Lamp Code	ANSI Spec	Description	Wattage (W)	Lumen (lm)	Base	Fig.
<b>Elliptical Coated</b>						
HQ50DX	H46	HQ50/ED17/coated/MED	50	1800	Medium	1
HQ75DX	H43	HQ75/ED17/coated/MED	75	2800	Medium	1
HQ75ED23DX	H43	HQ75/ED23/coated/MOG	75	2800	Mogul	2
HQ100A23DX	H38	HQ100/A23/coated/MED	100	4000	Medium	5
HQ100DX	H38	HQ100/ED17/coated/MED	100	4000	Medium	1
HQ100ED23DX	H38	HQ100/ED23/coated/MOG	100	4000	Mogul	2
HQ175DX	H39	HQ175/ED28/coated/MOG	175	8400	Mogul	3
HQ250DX	H37	HQ250/ED28/coated/MOG	250	13000	Mogul	3
HQ400DX	H33	HQ400/ED37/coated/MOG	400	23000	Mogul	4
HQ1000DX	H36	HQ1000/BT56/coated/MOG	1000	58000	Mogul	8
<b>Elliptical Clear</b>						
HQ100	H38	HQ100/ED17/clear/MED	100	3900	Medium	1
HQ100ED23	H38	HQ100/ED23/clear/MOG	100	3900	Mogul	2
HQ175	H39	HQ175/ED28/clear/MOG	175	8000	Mogul	3
HQ250	H37	HQ250/ED28/clear/MOG	250	12000	Mogul	3
HQ400	H33	HQ400/ED37/clear/MOG	400	21000	Mogul	4
HQ1000DX	H36	HQ1000/BT56/clear/MOG	1000	56000	Mogul	8
<b>Reflector</b>						
HQ50R30	H46	HQ50/R30/MED	50	1350	Medium	6
HQ100R40	H38	HQ100/R40/MED	100	2600	Medium	7
HQ175R40	H39	HQ175/R40/MED	175	5000	Medium	7

High Pressure Sodium Lamps Elliptical Bulb - European System

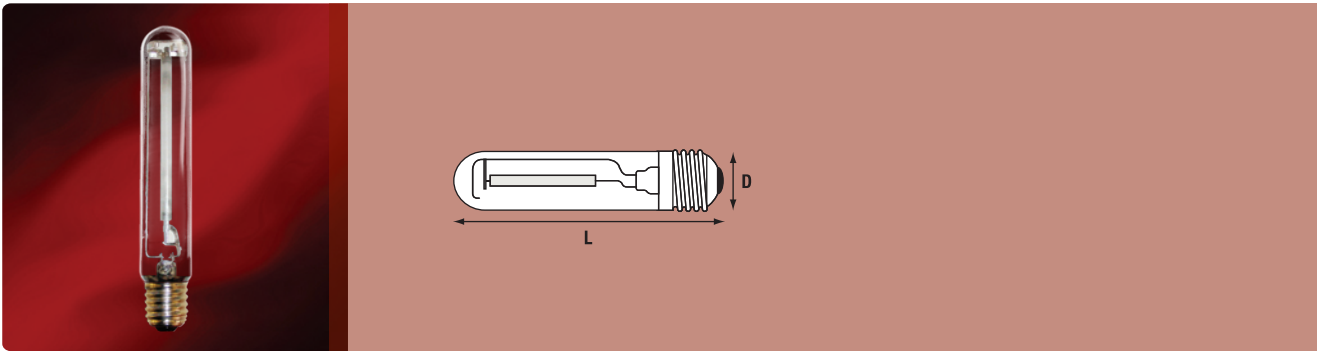


- High Luminous efficacy
- Universal burning position
- Long average burning hours

Lamp Code	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (mm)	Length L (mm)
SON-E 70	SON70/ED70/coated/E27	70	4600	E27	70	156
SON-E 70/I	SON70/ED70/coated/E27/Ignitor	70	4600	E27	70	156
SON-E 100	SON100/ED75/coated/E27	100	7300	E27	75	156
SON-E 150	SON150/ED90/coated/E40	150	12000	E40	90	226
SON-E 250	SON250/ED90/coated/E40	250	21000	E40	90	226
SON-E 400	SON400/ED120/coated/E40	400	38000	E40	120	290



# High Pressure Sodium Lamps Tubular Bulb - European System

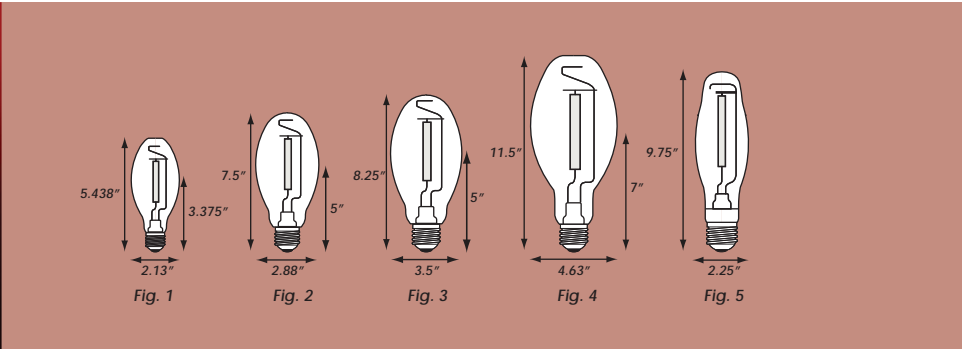


- High Luminous efficacy
- Universal burning position
- Long average burning hours

Lamp Code	Description	Wattage (W)	Lumen (lm)	Base	Diameter D (mm)	Length L (mm)
SON-T 70	SON70/T38/clear/E27	70	5000	E27	38	156
SON-T 100	SON100/T46/clear/E40	100	7800	E40	46	211
SON-T 150	SON150/T46/clear/E40	150	13000	E40	46	211
SON-T 250	SON250/T46/clear/E40	250	23000	E40	46	260
SON-T 400	SON400/T46/clear/E40	400	41000	E40	46	287

The SON-PLUS High Output versions are available with 130% lumen output of above standard types

# High Pressure Sodium Lamps - N. American System



- High Luminous efficacy
- Universal burning position
- Long average burning hours



Lamp Code	ANSI Spec	Description	Wattage (W)	Lumen (lm)	Base	Fig.
Elliptical clear						
SON/E/70	S62	SON70/ED17/clear/MED	70	5000	Medium	1
SON/E/100	S54	SON100/ED17/clear/MED	100	7800	Medium	1
SON/E/100/MOG	S54	SON100/ED23/clear/MOG	100	7800	Mogul	2
SON/E/150/Med	S55	SON150/ED17/clear/MED	150	13000	Medium	1
SON/E/150	S55	SON150/ED23/clear/MOG	150	13000	Mogul	1
SON/E/150/100	S56	SON150/100/ED28/clear/MOG	150	13000	Mogul	2
SON/E/250	S50	SON250/ED28/clear/MOG	250	23000	Mogul	3
SON/E/400	S51	SON400/ED37/clear/MOG	400	41000	Mogul	4
Elliptical coated						
SON/E/70/C	S62	SON70/ED17/coated/MED	70	4600	Medium	1
SON/E/100/C	S54	SON100/ED17/coated/MED	100	7300	Medium	1
SON/E/100/C/MOG	S54	SON100/ED23/coated/MOG	100	7300	Mogul	2
SON/E/150/C/Med	S55	SON150/ED17/coated/MED	150	12000	Medium	1
SON/E/150/C	S55	SON150/ED23/coated/MOG	150	12000	Mogul	2
SON/E/250/C	S50	SON250/ED28/coated/MOG	250	21000	Mogul	3
SON/E/400/C	S51	SON400/ED37/coated/MOG	400	38000	Mogul	4
Elliptical tubular clear						
SON/T/250	S50	SON250/ET18/clear/MOG	250	23000	Mogul	5
SON/T/400	S51	SON400/ET18/clear/MOG	400	41000	Mogul	5