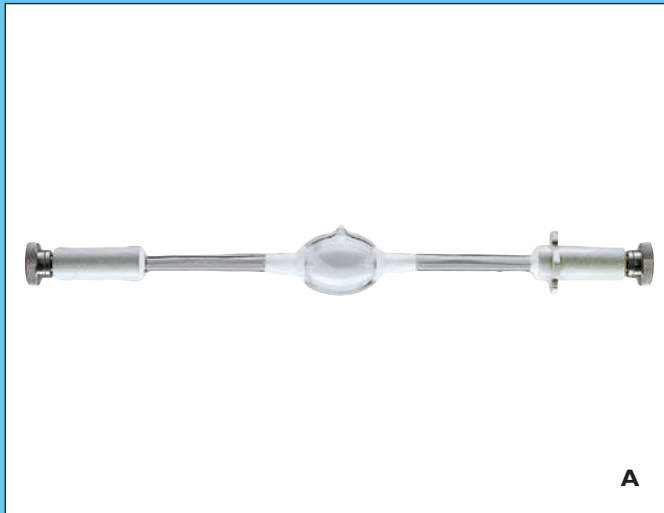
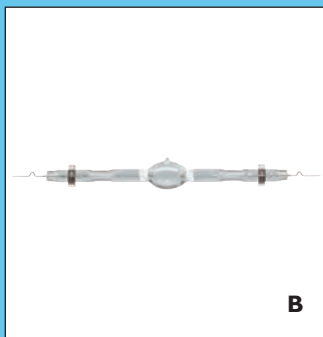


MH/HPI Metal halide

MHN-SA

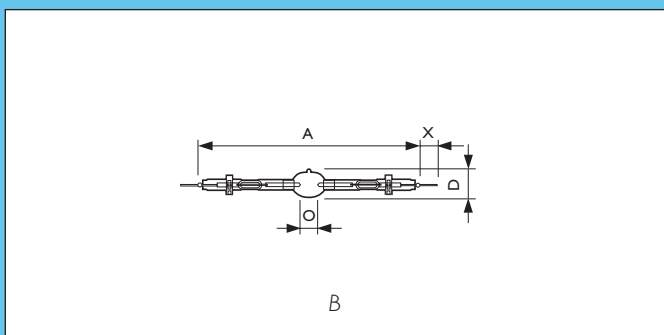
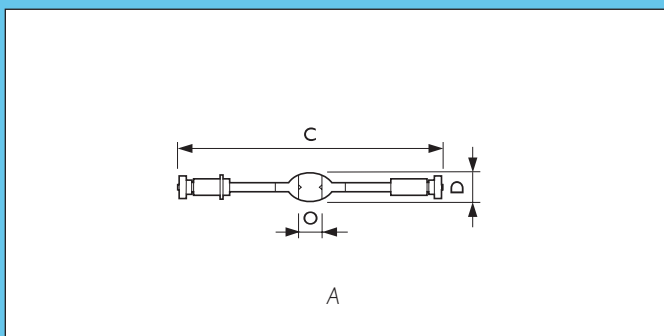


MHN-SA (P)SFC



MHN-SA X830R

Dimensions in mm



Product Description

- Compact quartz metal halide lamps with double-pin

Product Features

- Very compact source (Short Arc) with high luminous efficacy and superior color rendering
- Double-pin concept results in long lifetime
- Natural white color appearance, high color rendering and good color stability
- Daylight color temperature eases transition from daylight to artificial lighting

Product Benefits

- Allows compact and very efficient luminaire systems with high precision optics for good beam control and minimal spill light
- Very good color rendering creates a pleasant ambience with high visual comfort for players and spectators
- Continuous spectral distribution offers a superior solution for (semi-) professional stadiums with regular TV coverage

Application

- Professional sports lighting and floodlighting

Luminaires

- MHN-SA lamps require UV-absorbing and protective front glass and correct thermal behaviour for optimal lamp performance

	Overall length	Overall length	Diameter	Arc length	
Product ID	A nom.	C max.	D max.	O nom.	X nom.
1800W/X830R	318		41	25	25
2000W/X830R	318		41	25	25
1800W (P) SFC		364	41	25	

Preferred selection

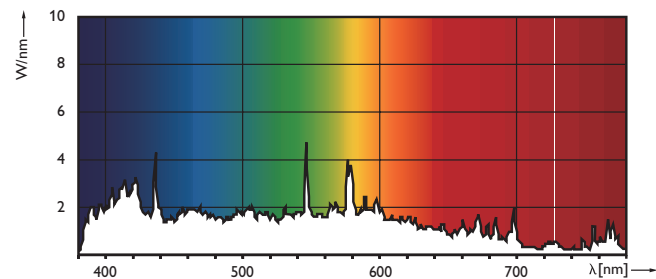
Product ID	Lamp Wattage EL (W)	Lamp Current EL (A)	Lamp Voltage (V)	Main Voltage (V)	Cap/ Base	Color Temperature (K)	Color Rendering Index (R _a)
MASTER MHN-SA 1800W/956 (P)SFC 230V	1800	17.3	120	230	(P)SFC	5600	90
MASTER MHN-SA 1800W/956 X830R 230V	1800	17.3	120	230	X830R	5600	90
MASTER MHN-SA 1800W/956 (P)SFC 400V	1800	10.5	205	400	(P)SFC	5600	90
MASTER MHN-SA 2000W/956 X830R 400V	2040	11.3	205	400	X830R	5600	90

Product ID	Chromaticity Coordinate X	Chromaticity Coordinate Y	Bulb Finish	Luminous Flux Lamp (lm)	Luminous Efficacy Lamp (lm/w)	Luminance Average EM (cd/cm ²)
MASTER MHN-SA 1800W/956 (P)SFC 230V	330	339	Clear	155000	86	6500
MASTER MHN-SA 1800W/956 X830R 230V	330	339	Clear	155000	86	6500
MASTER MHN-SA 1800W/956 (P)SFC 400V	330	339	Clear	160000	86	6700
MASTER MHN-SA 2000W/956 X830R 400V	330	362	Clear	200000	86	7500

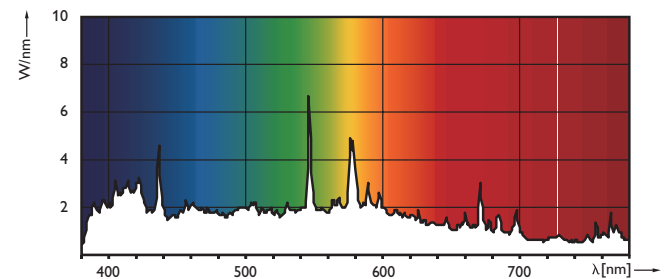
Product ID	Operating Position	Ignition Supply Voltage min. (V)	Bulb Temperature max. (°C)	Pinch Temperature max. (°C)	Net Weight Per Piece (g)
MASTER MHN-SA 1800W/956 (P)SFC 230V	P15	198	980	300	245
MASTER MHN-SA 1800W/956 X830R 230V	P15	198	980	300	110
MASTER MHN-SA 1800W/956 (P)SFC 400V	P15	342	980	300	245
MASTER MHN-SA 2000W/956 X830R 400V	P15	360	980	300	110

Spectral power distribution

MHN-SA 1800W



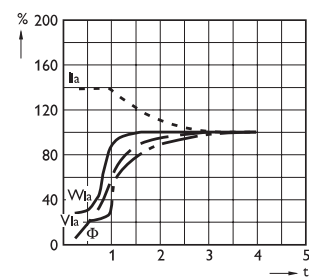
MHN-SA 2000W



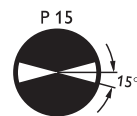
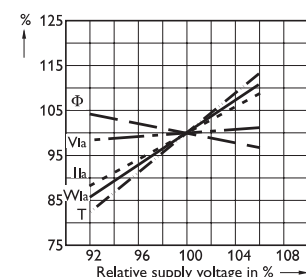
Performance diagrams

MASTER MHN-SA

Lamp performance during run up



Effects of mains voltage variations



The allowed burning position

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