

MAC 2000 WASH SPECIFICATIONS

Physical

Length	408 mm (16.0 in)
Width	490 mm (19.3 in)
Height	750 mm (29.5 in)
Weight	34 kg (74.8 lbs)

Lamp

Type	1200 W short arc discharge
Base	Double-ended SFC 10-4 with key
Approved models	Philips MSR 1200 SA/DE Gold (installed), Osram HTI D7/60 1200 SharXS
Control	Automatic and remote on/off, hot re-strike
Ballast	Electronic

Dynamic Effects

Cyan	0 - 100%
Magenta	0 - 100%
Yellow	0 - 100%
Color Temperature Correction	0 - 178 mireds
Color wheels (1 or 2)	4 positions plus open, interchangeable filters
Dimmer/shutter	Full range dimming, variable speed strobe effect up to 10 Hz
Motorized zoom	See photometric data for zoom beam angles
Light buster mode	Narrow beam with diffuser removed
Pan	540°
Tilt	267°

Color Filters

Shape	Hexangular
Thickness	1.2 mm
Type	Dichroic

Control and Programming

Protocol	USITT DMX-512 (1990)
Control channels	19 or 21
Setting and addressing	Control panel with LED display, remote using MP-2 uploader
Pan/tilt resolution	8- or 16-bit
Movement control	Tracking and vector
Software installation	Serial upload (MUF)
Receiver	Opto-isolated RS-485

Photometrics (Standard Fresnel Lens)

Measurement conditions	Standard Fresnel lens, 50 mm aperture ring
Hypermode (light buster mode, no diffuser), 1/10 peak angle 13°	1/10 peak output 35300 lumens
Minimum spread, 1/10 peak angle 16.5°	1/10 peak output 25200 lumens
Median spread, 1/10 peak angle 27°	1/10 peak output 31000 lumens
Maximum spread, 1/10 peak angle 40°	1/10 peak output 33900 lumens
Measurement source	Osram HMI 1200 W/S

Photometrics (PC Lens)

Measurement conditions	PC lens, 50 mm aperture ring
Hypermode (light buster mode, no diffuser), 1/10 peak angle 12.5°	1/10 peak output 35800 lumens
Minimum spread, 1/10 peak angle 14°	1/10 peak output 26600 lumens
Median spread, 1/10 peak angle 23°	1/10 peak output 31300 lumens
Maximum spread, 1/10 peak angle 37°	1/10 peak output 36000 lumens
Measurement source	Osram HMI 1200 W/S

Photometrics (Optional Super Wide-angle Lens)

Measurement conditions	Super wide-angle lens, 50 mm aperture ring
Hypermode (light buster mode, no diffuser), cutoff angle 95.5°	1/10 peak output 42200 lumens
Minimum spread, 1/10 peak angle 79.5°	1/10 peak output 28200 lumens
Median spread, 1/10 peak angle 87.5°	1/10 peak output 33800 lumens
Maximum spread, 1/10 peak angle 94.5°	1/10 peak output 37300 lumens
Measurement source	Osram HMI 1200 W/S

Approvals



EU EMC	EN 55015, EN 55103-1, EN 61547
EU safety	EN 60598-2-17
Canadian safety	CSA/CAN CSA E60598-1, E598-2-17
US safety	UL 1573

Construction

Housing	UV-resistant fiber-reinforced composite
Color	Black
Protection factor	IP 20

Installation

Minimum distance to combustible materials	1 m (39 in)
Minimum distance to illuminated surfaces	.3 m (10 ft)
Minimum distance around fans and vents	.0.1 m (4 in)
Orientation	Any
Mounting points	8 pairs of 1/4-turn locks, offset 45°

Electrical

AC power	Auto-ranging 100-120 and 208-240 VAC nominal voltage, 50/60 Hz
Ballast	Electronic
Main fuses (x 2 - for operation on 208 - 240 V nominal)	15 A
Main fuses (x 2 - for operation on 100 - 120 V nominal)	T 20 A
Fuse F101	T 6.3 A
Fuse F102	T 10 A
Fuse F103	T 3.15 A
Fuse F104	T 3.15 A

Typical Power and Current*

100 V, 50 Hz	1532 W, 19.1 A, PF 0.803
100 V, 60 Hz	1521 W, 18.6 A, PF 0.812
110 V, 60 Hz	1501 W, 16.9 A, PF 0.801
120 V, 60 Hz	1496 W, 15.7 A, PF 0.789
208 V, 60 Hz	1413 W, 7.1 A, PF 0.958
230 V, 50 Hz	1411 W, 6.5 A, PF 0.953
240 V, 50 Hz	1411 W, 6.2 A, PF 0.950

V = Volts, Hz = Hertz, W = Watts, A = Amps, PF = power factor

* Wattage, amperage and power factor figures are typical, not maximum. Allow for a deviation of +/- 10%. Figures apply to current product with passive power factor correction (PPFC). See previous revisions of user manual at <http://www.martin.com> for specifications of older models without PPFC.

Connections

AC input	3 m cable tail w/o power plug
Data input/output	Locking 3-pin & 5-pin XLR, pin 1 shield, pin 2 cold (-), pin 3 hot (+)

Thermal

Maximum ambient temperature (T _a)	40° C (104° F)
Maximum surface temperature, steady state, T _a = 40° C (104° F)	140° C (284° F)
Total heat dissipation (calculated)	Approx. 5120 Btu/hr

Included Items

User manual
Philips MSR 1200 SA/DE Gold lamp (installed)
Two Omega clamp attachment brackets, 1/4-turn
3-pin XLR cable
PC lens
Fresnel lens
Super wide-angle lens
30 mm (1.2 in.), 40 mm (1.6 in.), 45 mm (1.8 in.) and 50 mm (2 in.) aperture rings
2 x 20 A main fuses (for use with 100-120 V power)
2 x 15 A main fuses (for use with 208-240 V power)

Accessories

DABS1 USB-XLR interface device and cables	P/N 91611144
MP-2 Uploader	P/N 90758420
G-clamp	P/N 91602003
Half-coupler clamp	P/N 91602005
'The Wife' DMX Tester	P/N 91611038
MAC 2000 Wash Dimmer Wheel	P/N 62324018
MAC 2000 Wash Barndoors	P/N 91611059
MAC 2000 Double Flight Case	P/N 91510017
Philips MSR 1200 SA/DE Gold lamp	P/N 97010310
Osram HTI 1200 SharXS lamp	P/N 97010304
DMX termination plug, 3-pin male XLR	P/N 91613017
10 cm phase-reversing 3-pin male to 3-pin female XLR cable	P/N 11820006

Ordering Information

MAC 2000 Wash in 2-unit flight case	P/N 90203000
MAC 2000 Wash E in single-unit flight case	P/N 90203010
MAC 2000 Wash E (in a cardboard packing case)	P/N 90203015

Specifications subject to change without notice