



ArenaVision MVF403 – world-class performance

ArenaVision MVF403

ArenaVision MVF403 takes sports floodlighting to the highest level, offering very high light output, optical efficiency, ease of installation, reliability and flexibility. It is ideal for indoor sports halls (1000 W version) as well as many outdoor sports and other lighting applications. The integrated system of oval optics and compact double-ended MHN-LA 1000W or MHN-SA HO 2000W lamps ensures outstanding system efficiency and low glare. A built-in reflector skirt reduces spill light and glare even further. The MHN-SA HO 2000W/956 and MHN-LA 1000W/956 lamps meet the highest international CTV requirements. With the MHN-LA 1000W/842 lamp, the natural colour rendering and comfortable atmosphere are well suited to TV and filming as well as other floodlighting applications. Hot re-strike versions are available for all lamp types, enabling immediate restoration of lighting after power supply failure. The (optional) flicker-free version of ArenaVision MVF403 MHN-LA 1000W is designed to ensure that the flicker effect is fully eliminated in order to guarantee perfect images filmed with super-slow-motion cameras at sports events. The flicker-free version of ArenaVision MVF403 comes equipped with a special electronic igniter, which works in combination with Philips' electronic ballast GearUnits (ECM330), to be ordered separately.

Benefits

- Innovative floodlights designed around Philips' world-class double-ended lamps; dedicated optics ensure maximum optical efficiency and enable accurate light distribution with a minimum of spill light
- Philips quartz metal-halide lamps meet the most demanding lighting and TV broadcast requirements with excellent colour rendering
- The flicker-free version completely eliminates flicker effect, thereby guaranteeing perfect images filmed with super-slow-motion cameras

ArenaVision MVF403

Features

- High-output double-ended metal-halide lamps with excellent colour rendering and lifetime
- Dedicated precision optics
- Safety switch
- Electronic hot-restrike
- Complete Philips lamp, optic and gear system
- Flicker-free light version for super-slow-motion cameras

Application

- Outdoor sport stadiums
- Indoor sport halls

Specifications

Type	MVF403
Light source	HID:
	- 1 x MASTER MHN-SA / XW / 2000 W
	- 1 x MASTER MHN-LA / XWH / 1000 W
Lamp included	Yes (K or light color 842 or 956)
Optic	Beam category A1 (A1)
	Beam category A2 (A2)
	Beam category A3 (A3)
	Beam category A4 (A4)
	Beam category A5 (A5)
	Beam category A6 (A6)
	Beam category A7 (A7)
	Beam category A8 (A8)
Optical cover	Front glass for downlighting (DOWN)
	Uplighting versions (UP) (Not for MHN-2000W version)
Ignitor	Series (SI), 1000 W, 2000W integral
	Hot-restrike (HRE), integral

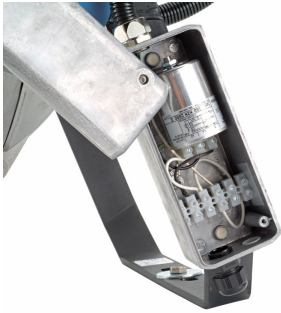
Options	Aiming memory (AM) to safeguard the original aiming position of the luminaire during servicing
	Hot re-strike versions enabling immediate restoration of lighting after power supply failure
	Uplighting versions available for architectural lighting
	Special cable sleeve version for tropical regions
Materials and finishing	Housing and rear cover: non-corrosive, high-pressure die-cast aluminum
	Optical cover: chemically toughened glass 3 mm thickness for downlighting versions, ceramic 3 mm thick for uplighting versions
	Mounting bracket: zinc nickel treated
	Clips: stainless steel (to secure the back cover)
	Reflector: anodised and brightened 99.99% aluminum
	Finishing in raw aluminum

Specifications

Installation	On mast headframe, ceiling, wall and floor mounting
	The lamp only needs to be installed mechanically; electrical connection achieved by closing the rear cover
	Precision aiming facilities at both top and bottom of the housing for use in conjunction with the ZVF403 PAD accessory
	Adjustment of mounting bracket: 360°
	Ambient temperature outdoor:
	- MASTER MHN-SA 20000 W lamp version: 35°C (Outdoor only)
	- MASTER MHN-LA 1000 W lamp version: 45°C (Outdoor and indoor)
	Drag factor (Cx): 0.93
	Projected area in 70° position: 0.20 m

Maintenance	Max adjustment from the horizontal: -90 / +90°
	Lamp access by opening clips of rear cover (tool-less)
	Equipped with safety switch to cut off current when luminaire is opened (requires additional contactor - supplied by others)
Accessories	No internal cleaning required
	External louver (ZVF403 GS), precision (ZVF403 PAD) and simple (ZVF403 SAD) aiming devices
Remarks	Equipped with aluminum connection box with series ignitor (SI)
	Wire mesh to prevent large glass falling out
	Pre-wired 230 - 240 V / 50 Hz and 380-400-415-430V / 50Hz gear units (ECB/ECP330) are available, to be ordered separately
Main applications	Outdoor sport stadiums, indoor sport halls.

Product details



OPDP_MVF403i_0027-Detail
photo

Application conditions

Maximum dimming level	Not applicable
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Approval and application

Mech. impact protection code	IK08
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Surge protection (common/differential)	-
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Controls and dimming

Dimmable	No
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General information

Luminaire light beam spread	-
CE mark	Yes
Light source colour	956 daylight
Optical cover/lens type	DOWN
Flammability mark	NO
Gear	-
Number of gear units	-
Number of light sources	1
Product family code	MVF403

Initial performance (IEC compliant)

Init. Corr. Colour Temperature	5600 K
Init. Colour rendering index	>90

Light technical

Standard tilt angle side entry	-
Standard tilt angle post-top	-

Mechanical and housing

Colour	Aluminium
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General information

Order Code	Full Product Name	Lamp family code	Lamp power	Optic type
910502223318	MVF403 MHN-LA1000W/956 A3 SI	MHN-LA	1000 W	Beam category A3 (A3)
910502223418	MVF403 MHN-LA1000W/956 A4 SI	MHN-LA	1000 W	Beam category A4 (A4)
910502223518	MVF403 MHN-LA1000W/956 A5 SI	MHN-LA	1000 W	Beam category A5 (A5)
910502223618	MVF403 MHN-LA1000W/956 A6 SI	MHN-LA	1000 W	Beam category A6 (A6)
910502223718	MVF403 MHN-LA1000W/956 A7 SI	MHN-LA	1000 W	Beam category A7 (A7)
910925748712	MVF403 MHN-SA2000W/956 A5 SI	MHN-SA	2000 W	Beam category A5 (A5)
910925748812	MVF403 MHN-SA2000W/956 A6 SI	MHN-SA	2000 W	Beam category A6 (A6)
910925748912	MVF403 MHN-SA2000W/956 A7 SI	MHN-SA	2000 W	Beam category A7 (A7)

