

EVOLUTION II

Ex de ASYMMETRIC FLOODLIGHT

The Evolution II takes the unique Evolution features to a new level with greatly improved photometric performance by means of an asymmetric reflector system which gives increased light distribution, coupled with the low glare attributes associated with this type of reflector. As with the original Evolution there are no exposed flameproof paths.

The ATEX category 2 G D luminaire utilises Ex de protection and IP66/67 sealing making it suitable for use for ignitable gas and dust applications. The Evolution can be used as standard with up to 400W HID lamps or increased to 600W with a separate Ex e control gear box.

The protection is Ex de for ignitable gas applications and is dust excluding IP6X for use in ignitable dust applications. The ATEX Categories are 2 G and 2 D. Lamps up to 400W can be used and extended up to 600W with a separate Ex e control gear box.

Explosion protection for gas group IIB is standard and is suitable for ambient temperatures up to 55°C.



PTFE Coating mounted at 90°

Standard Specification

Features

Type of Protection	Ex de (Flameproof, Increased Safety) Dust protected enclosure
ATEX Classification	Group II Category 2 G D
Area Classification	Zone 1 and Zone 21 areas to EN 60079-10 and EN 50281-3 with installation to EN 60079-14 and EN 50281-1-2 Gas Groups IIA and IIB
Apparatus Standard	EN 50014 EN 50018 EN 50019 EN 50281-1-1
Certificate Coding	EC Type Examination Certificate Baseefa04ATEX0155 ⊕ II 2 G D EEx de IIB (refer to table for T rating and Ambient)
Enclosure	Aluminium alloy LM6 to BS 1490 All fastenings stainless steel. Toughened glass window
Reflector	Asymmetric beam, high purity anodised aluminium
Entry Termination Installation	2 x M20 cable entries 3 core 6mm ² max. conductor with looping Stirrup mounting bracket with aiming quadrant
Control Gear	Internal copper/iron with PFC correction capacitor and timed ignitor
Relamping	Access via hinged end cover on release of single screw
Lampholder Lamp Type	E40 (R7s for linear Tungsten-Halogen) HPS, Metal Halide or Tungsten-Halogen
Burning Position	Universal for HID, +/-45° on horizontal plain for Tungsten-Halogen lamps
Ingress Protection	IP66/67 to EN 60529
Electrical Supply	110, 120, 220, 230, 240, 254V 50Hz HPS & Metal Halide 12V - 250V linear Tungsten-Halogen 110V - 250V single ended Tungsten-Halogen

Installation in gas groups IIA and IIB
Easy and quick access for maintenance
Simple, rapid lamp replacement and flamepath inspection
Reduced maintenance due to no exposed flamepath
Exceptional photometric efficiency with reduced glare
Effective light distribution for many applications
IEC Ex Compliant
Optional PTFE coating available

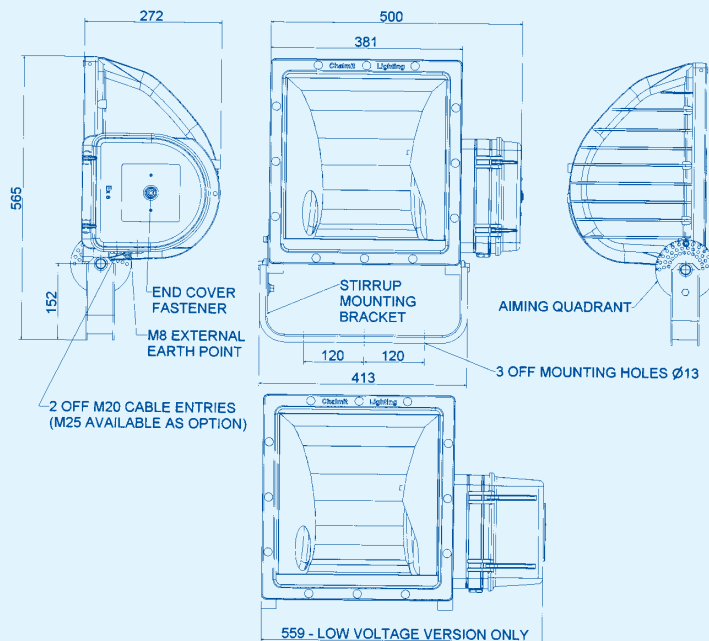
ATEX CATEGORY 2 ZONE 1 & 21 APPLICATIONS

Std. Cat No.	Wattage	Lamp	Lampholder	T Class (Gas)	T °C (Dust)	Ambient °C	Weight
EV2D/150/MS	150W	HPS and Metal Halide	E40	T4	130	40	28kg
				T3	175	55	
EV2D/250/MS	250W	HPS and Metal Halide	E40	T4	130	40	28.5kg
				T3	175	55	
EV2D/400/MS	400W	HPS and Metal Halide	E40	T3	175	55	28.5kg
EV2D/600/HS*	600W	HPS	E40	T3	195	35	25kg
EV2D/500/TH	500W	Single Ended T/Halogen	E40	T3	195	40	25kg
EV2D/500/TL	500W	Linear T/Halogen	R7s	T3	195	55	25kg

*Ignitor only fitted. Remote gear box required.

Options - Suffix to Catalogue No.

/I20	120V (Weight increase of +10kg)	/P	PTFE coating
/60	60Hz	/PE	Pendant mounted
/M25	M25 Entries	/N	Narrow beam option



NOTE: 120V version utilises deeper end cover (as shown above)

Accessories (Should be ordered separately)

	Catalogue Order Code
284 retrofit bracket (allows Evolution II to pick-up 284 fixings)	SEVO1-0001
Pole mounting bracket	SEVO4-0001
Anti-glare shield	SEVO4-0019
Wire guard	SEVO4-0020
Combined glare shield and wire guard	SEV24-0001

Product design and specifications are subject to change without notice, please check the Chalmite website for latest specifications.



Electrical Products

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