

Explosionproof LED luminaire ACQUEX LED

50,000 h product life

5 YEARS
warranty

IP 66	IK 08
Frequency 0-50/60Hz	Rated voltage 220-240V
650°C	SELV
UV	+40°C -20°C



ACQUEX LED-M 1x1.2 ET PC Inox

General characteristics

- Designed to be used in hazardous areas where an explosive atmosphere persists for a short period as standard illumination or as emergency illumination.
- Housing in compressed glass fiber reinforced polyester in yellow (RAL 1003) integrating two gear tray holders to allow suspension to carry out its connection to the mains. Polyurethane gasket to obtain IP66 rating.
- Stainless steel clips (INOX).
- Transparent diffuser in polycarbonate (PC), with UV protection, manufactured in injection with prismatic design for an optimum light distribution.
- Polyamide ATEX cable gland M20x1.5 IP68.
- ACQUEX LED is perfectly suitable for use in EX-Zones according to ATEX directive 2014/34/EU:

II 3 G Ex nA IIC T6 Gc

II 3 D Ex t IIIC T85 °C Dc IP66

Mounting accessories

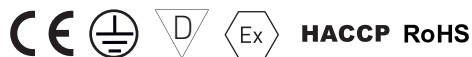
- Stainless steel fixing brackets included.



Applications recommendation

- Oil and gas sites
- Pharmaceutical
- Chemical industry
- Food and agricultural industry
- Industrial facilities

Approvals and markings



Mounting possibilities



Product Options

- Emergency kit 3h

Accessories

Option

10115832 Brass nickel plated ATEX cable gland M20x1.5

Weatherproof LED luminaire ACQUEX LED

Functional characteristics

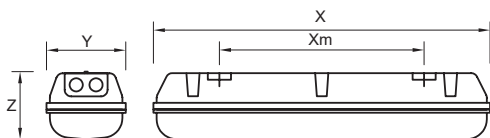
- The long life time of the LEDs decreases maintenance costs.
- LED technology integrates low power consumption for greater efficiency, intelligent lighting management through a high frequency sensor, quick and easy installation thanks to plug and play system.
- Extremely safe, with a robust design with a vibration-free components directly reusable without starting time to low ambient temperatures down to -25 ° C.

General technical data

Rated voltage range	220V-240V
Rated frequency	0-50Hz/60Hz
Protection class	Class I
Protection rating	IP66
Impact resistance	IK08 PC Diffuser
UV protection	Diffuser and body with UV protection
Fire protection	GRP and PMMA: Flammability (UL94): HB, Glow wire test (EN 60695-2-11): 650°C PC: Flammability (UL94): V2, Glow wire test(EN 60695-2-11): 850°C
THD	< 10%
Chemical agents resistance	See appendix
Color Rendering Index (CRI)	> 80
Type of control gear	Electronic transformer, switchable
Connection method	Terminal block and cable gland

Operating data | Dimensions

Designation	Special features	Luminous Flux	Efficiency	Connection load	Color Temperature	X	Xm	Y	Z
		lm	lm/W	W	K	mm	mm	mm	mm
ACQUEX LED-M 1x0.6 ET PC Inox		2500	119	21	4000	665	390	145	101
ACQUEX LED-M 1x1.2 ET PC Inox		4800	133	36	4000	1282	800	145	101
ACQUEX LED-M 1x1.5 ET PC Inox		6000	136	44	4000	1578	1100	145	101
ACQUEX LED-M 1200 ET EB3 PC Inox	Emergency battery 3h	4800	133	36	4000	1282	800	145	101
ACQUEX LED-M 1500 ET EB3 PC Inox	Emergency battery 3h	6000	136	44	4000	1578	1100	145	101



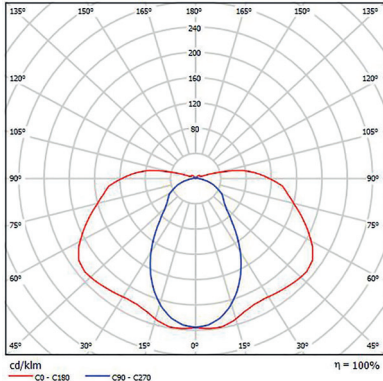
Logistical data

Designation	Order Number					
		L x W x H mm	Pcs./Box	Box	Groupage Pcs./Euro palett	Double pallet Pcs./Euro palett
ACQUEX LED-M 1x0.6 ET PC Inox	10121627	675 x 151 x 105	1	2.0	150	90+90
ACQUEX LED-M 1x1.2 ET PC Inox	10121628	1289 x 151 x 105	1	3.3	75	45+45
ACQUEX LED-M 1x1.5 ET PC Inox	10121629	1589 x 151 x 105	1	4.0	75	45+45
ACQUEX LED-M 1200 ET EB3 PC Inox	10121630	1289 x 151 x 105	1	3.5	75	45+45
ACQUEX LED-M 1500 ET EB3 PC Inox	10121631	1589 x 151 x 105	1	4.2	75	45+45

For logistic estimations please contact our sales backoffice team

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Light characteristic



ACQUEX LED-M 1x0.6 ET PC Inox

Other models similar distribution with different intensities

Product life

T ^a Range	L Value	Lifetime
25°C	L80	50,000 h

Conformity to standards

Electrical equipment designed to be used with certain voltage limitations

EN 60598-1	Luminaires - Part 1: General requirements and tests
EN 60598-2-1	Luminaires - Part 2: Particular requirements. Section 1: General purpose luminaires

Electromagnetic compatibility

EN 55015	Limits and methods of measurement of radio disturbance characteristics of electric lighting and similar equipment. Characteristics of electric lighting and similar equipment
EN 61000-3-2	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions
EN 61000-3-3	Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems
EN 61547	Equipment for general lighting purposes EMC immunity requirements
EN 62471	Photobiological safety of lamps and lamp system
EN 62493	Assessment of lighting equipment related to human exposure to electromagnetic fields

APPENDIX

Chemical Agents	Polyester	Polycarbonate	Aluminium	PMMA	Stainless steel
Acetic acid 10%	✓	✓	✓	✓	✓
Acetone	∅	x	✓	x	✓
Alcoholic beverages	✓	✓	✓	∅	✓
Aluminium sulphate	✓	✓	✓	✓	∅
Ammonia 5%	∅	x	✓	✓	✓
Aniline	∅	x	✓	x	✓
Arsenic acid 20%	∅	✓	✓	✓	✓
Benzene	x	x	✓	x	∅
Bencylic alcohol	x	x	∅	x	∅
Bromine	x	x	x	x	x
Calcium Chloride	✓	✓	✓	✓	∅
Calcium nitrate	✓	✓	✓	✓	∅
Carbon tetrachloride	x	x	✓	x	∅
Carbonic acid	✓	x	✓	x	✓
Caustic potash 5%	x	x	x	✓	∅
Cement	✓	✓	✓	✓	∅
Hydrochloric acid 1-5%	∅	✓	x	✓	x
Chlorine liquids (vapours)	x	x	x	x	∅
Chloroform	x	x	✓	x	✓
Chromic acid	x	∅	x	∅	∅
Citric acid 20%	✓	✓	✓	✓	∅
Copper sulphate	✓	✓	x	✓	∅
Diesel-naphta oil	✓	∅	✓	✓	✓
Ethyl alcohol 30%	✓	✓	✓	∅	✓
Ethyl chloride	x	x	∅	x	✓
Ethyl ether	✓	x	✓	x	∅
Food oils and fats	✓	x	✓	✓	✓
Formic acid 10%	∅	✓	x	✓	∅
Glycerine	✓	✓	✓	✓	✓
Hexane	∅	✓	✓	✓	✓
Iodine	✓	x	∅	✓	x
Isopropylic alcohol	✓	∅	✓	∅	∅
Lubricating oil	✓	✓	✓	✓	✓
Magnesium sulphate	✓	✓	✓	✓	✓
Methanol	✓	x	✓	∅	✓
Mineral oils	✓	✓	✓	✓	✓
Nitric acid 20%	x	∅	x	✓	✓
Oxygen	✓	✓	✓	✓	✓
Ozone	✓	✓	✓	✓	∅
Perchloric acid 10%	x	✓	x	✓	x
Petrol	✓	x	✓	✓	✓
Phenol	∅	x	✓	x	∅
Pothassium bromide	✓	✓	∅	✓	∅
Pothassium nitrate	✓	✓	✓	✓	∅
Pothassium permanganate	✓	✓	✓	✓	∅
Sea climate	✓	✓	∅	✓	∅
Silicon oils	✓	✓	✓	∅	✓
Soda bleach 15%	✓	x	∅	✓	∅
Sodium chloride	✓	✓	∅	✓	∅
Sodium hydroxide 5%	✓	x	x	✓	∅
Sodium sulphate	✓	✓	✓	✓	∅
Sugar	✓	✓	✓	✓	✓
Sulphur	✓	✓	✓	✓	∅
Sulphuric acid 30%	x	✓	x	✓	x
Toluene	x	x	✓	x	✓
Trichloroethylene	x	x	✓	x	∅
Zinc sulphate	✓	✓	∅	✓	∅

✓ Resistant ∅ Relatively resistant x Non-resistant