

ZONE 21 & 2,22



EXL450LED-A3

with 3 hour emergency power module



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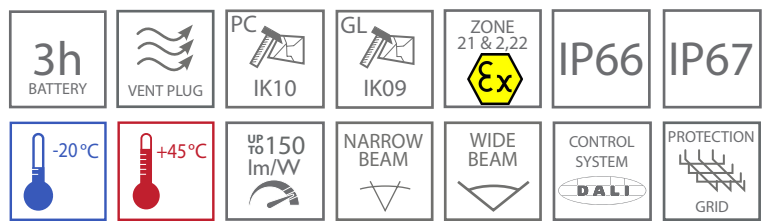
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3h emergency module



turns on during the power network failure



EX MARKING:



II 3G Ex ec IIC T6...T4 Gc
II 2D Ex tb IIIC T80°C...T105°C Db

CERTIFICATES:



OBAC 22 ATEX 0349X

EXEMPLARY APPLICATIONS



REFINERIES



OFFSHORE



CHEMICAL
PLANTS



CHEMICAL
WAREHOUSES

Explosionproof floodlight with **LED** modules with very high luminous flux. Designed to be used in the zones **21&2,22** of the explosion hazard of gases, vapors and mists of flammable liquids with air, as well as of flammable dusts and fibers.









The housing is made of anodized aluminum. The diffuser can be made of glass or polycarbonate. There is a possibility to choose one out of five available optics.

Versions with 3-hour emergency power module **A3**.

Additional accessories as protection grid **PRG** or vent plugs **VENT** can be installed optionally.

FEATURES








MECHANICAL PARAMETERS

	housing	anodized aluminum
	diffuser	tempered glass, polycarbonate
	ingress protection	IP66, IP67
	protection class	I
	shock resistance	GL: IK09 PC: IK10
	mounting	on the bracket
	mounting accessories	check: <i>mountings</i>
	optional accessories	protection grid, vent plugs
	wires between the fitting modules	high temperature resistant silicone wires





WORK PARAMETERS

	ambient temperature	-20°C up to +45°C
	lifetime	>50.000h L ₈₀ B ₁₀ >70.000h L ₇₀ B ₁₀

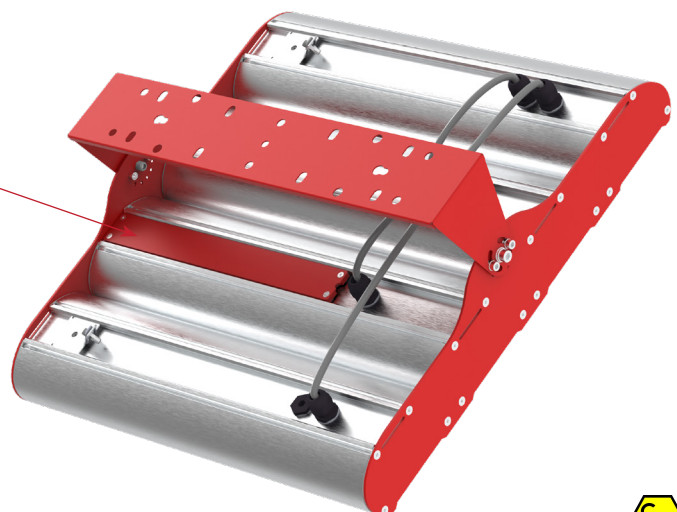
ELECTRICAL PARAMETERS

2,5 mm ² 6,0 mm ² - <i>optionally</i>	connection terminals	
220-240V, 50-60 Hz voltage ± 10%	input voltage 24E	
intrinsically safe LED modules	light source	
>0,98	power factor	
Ø20 Ø25	cable inlets	
L-N 6kV, L-PE 10kV	overvoltage protection in driver	
L-N 1kV, L-PE 2kV	overvoltage protection in converter	

PHOTOMETRICAL PARAMETERS

>70 >80 - <i>optionally</i>	CRI	
4000K 6500K - <i>optionally</i>	colour temperature	
SVM < 0,0016 <i>acc. with IEC TR 61547-1:2020</i>	light pulsation	
PstLM < 0,187 <i>acc. with IEC TR 61547-1:2020</i>	flicker indicator	

easy access to the emergency module battery



TYPES COMPARISON

TYPE OF LIGHT FIXTURE	LUMINOUS FLUX* [lm]	POWER CONSUMP.** [W]	EFFICIENCY [lm/W]	EMERGENCY MODE		TEMP. CLASS / MAX. SURFACE TEMPERATURE
				EMERGENCY LUMINOUS FLUX [lm]	AMBIENT TEMPERATURE	
EXL450LED-EX2-1-A3	16000	103	155	900	- 20°C ÷ 45°C	T6/T80 °C
EXL450LED-EX2-2-A3	22000	153	144	900	- 20°C ÷ 45°C	T5/T80 °C
EXL450LED-EX3-1-A3	24000	155	155	900	- 20°C ÷ 45°C	T5/T80 °C
EXL450LED-EX3-2-A3	34000	238	143	900	- 20°C ÷ 45°C	T4/T105 °C

* - Luminous flux is indicated for LED modules CRI 70.

** - During the emergency battery loading, the power consumption can be increased up to 5,0W.



Luminous flux tolerance +/- 10%

Power tolerance +/- 5%

The parameters given in the following data sheet has been determined for the temperature Ta=25°C.

Luminous flux, light intensity distribution and efficiency has been tested on the basis of the standards EN ISO 17025:2005, norm series EN13032 and LM-79.

The actual data and General Warranty Conditions are available on our website www.atmlighting.pl

MAXIMAL QUANTITY OF FITTINGS THAT MAY BE CONNECTED ACCORDING TO THE USED CIRCUIT BRAKER

Version 24E (220-240V, 50÷60Hz)

TYPE OF THE FITTING	B16	C16
EXL450LED-EX2-1	21	11
EXL450LED-EX2-2	11	6
EXL450LED-EX3-1	11	6
EXL450LED-EX3-2	7	4

Above values are indicated for the power supply voltage 220VAC.

LUMINAIRE OPERATING MODES

STANDARD MODE

emergency module is off

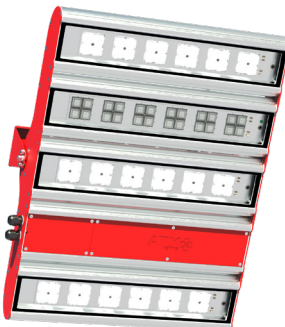
EMERGENCY MODE

emergency module turns on after the power network failure

EXL450LED-EX2-...-A3

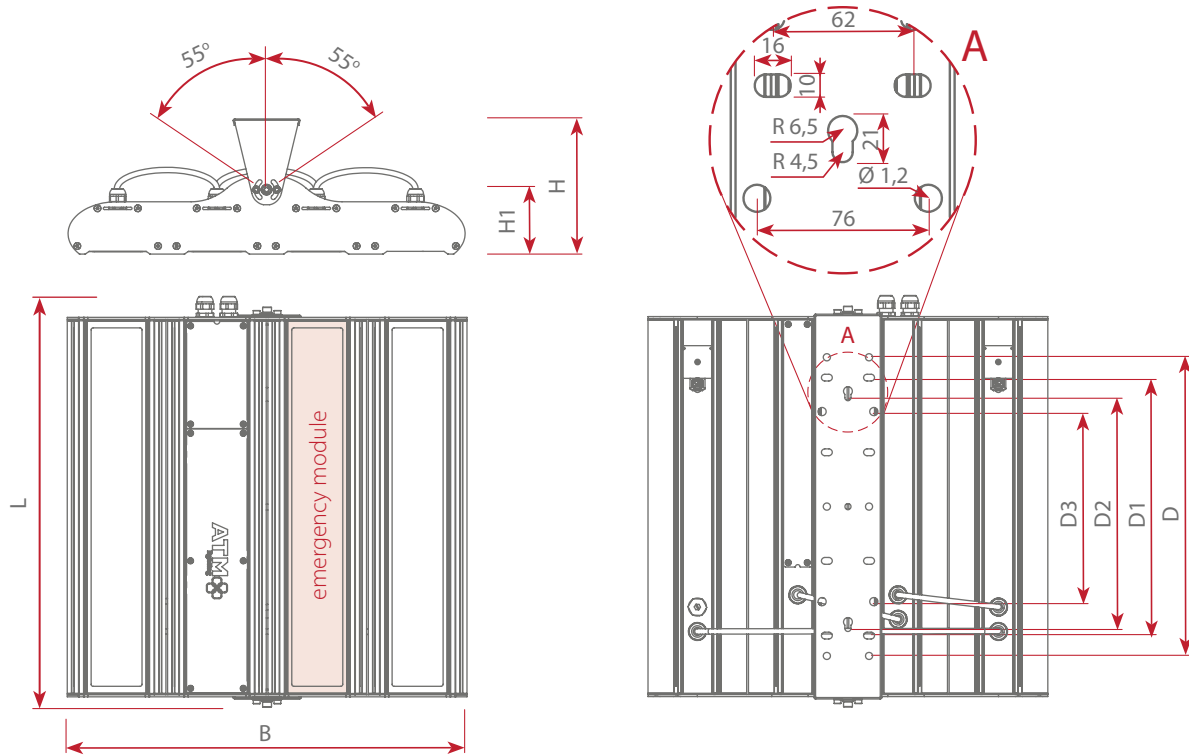


EXL450LED-EX3-...-A3

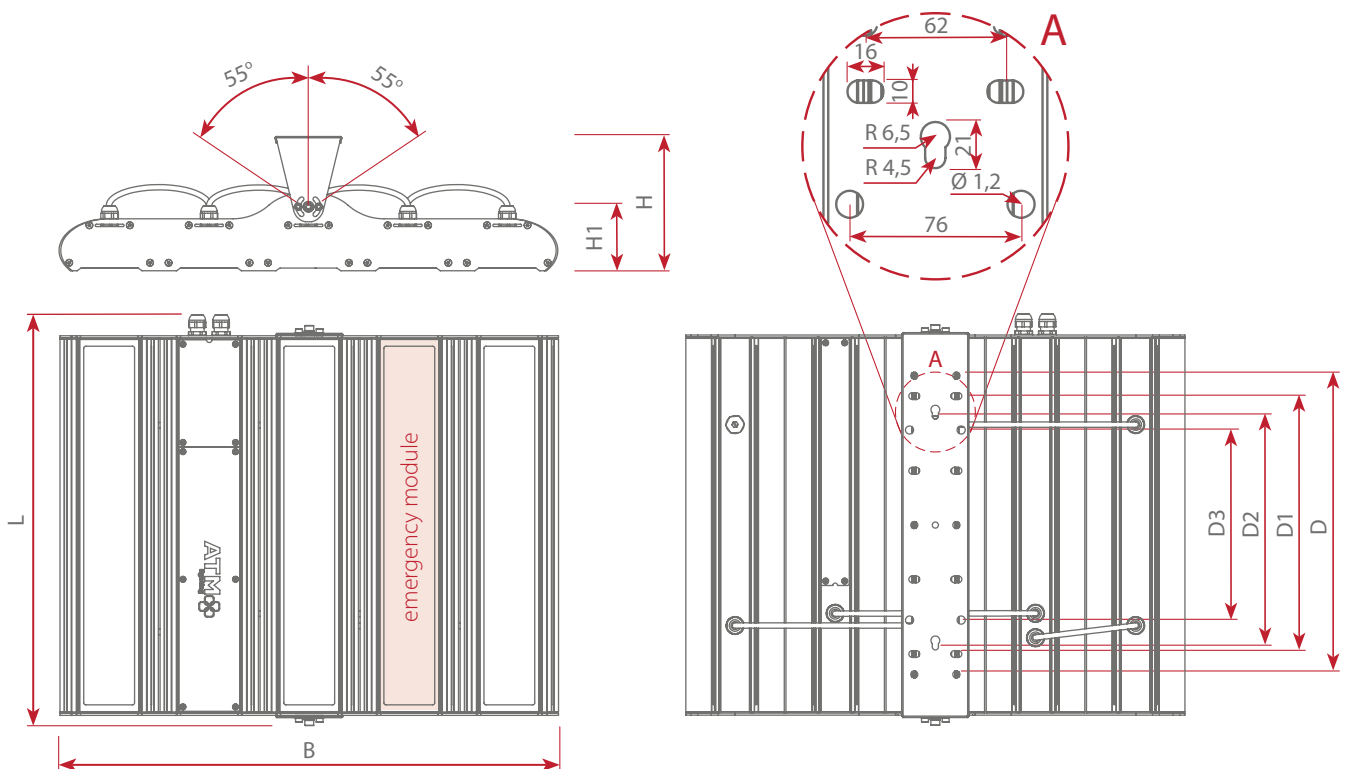


DIMENSIONS

VERSION EX2 - A3



VERSION EX3 - A3

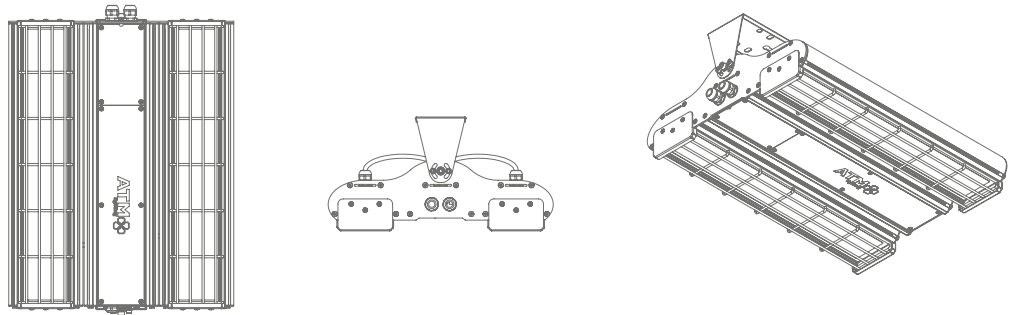


TYPE	L	B	H	H1	D	D1	D2	D3	Weight [kg]
EXL450LED-EX2-...-A3	606	585	202	97	440	380	340	280	13,5
EXL450LED-EX3-...-A3	606	735	202	97	440	380	340	280	16,5

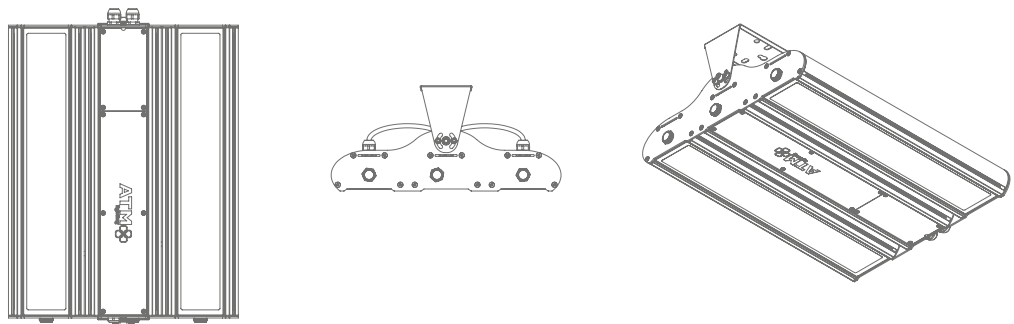
OPTIONAL VERSIONS

3F 3-phase power supply: **3F**
 Optional version adapted to 3-phase power supply

PROTECTION GRID Additional equipment: **PRG**
 Additional protection grid protecting from unexpected damages



VENT PLUG Additional equipment: **VENT**
 Additional ventilated plug for every module of the lighting fixture

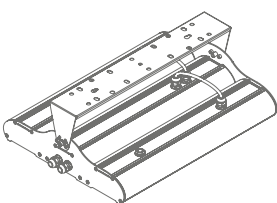
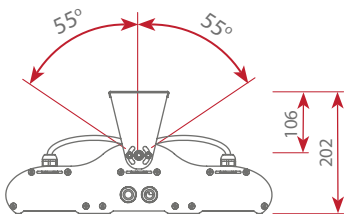


The ventilated plug prevents from the condensation of water vapor inside the fitting. This version is recommended for external use of the fitting.

MOUNTINGS

AMO90

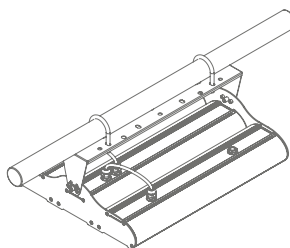
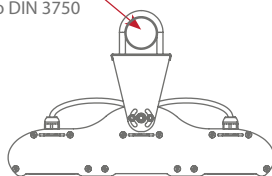
standard



AMO360

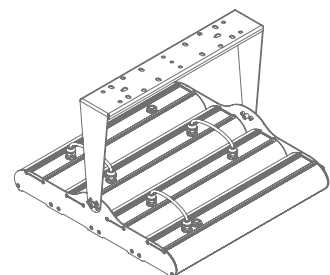
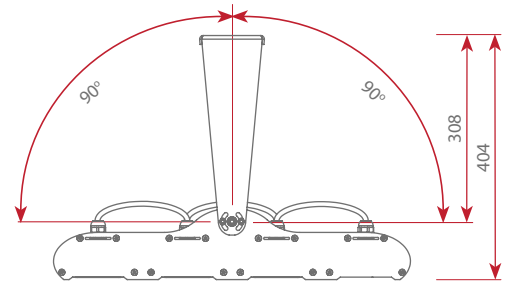
option

adaptable diameter due to DIN 3750

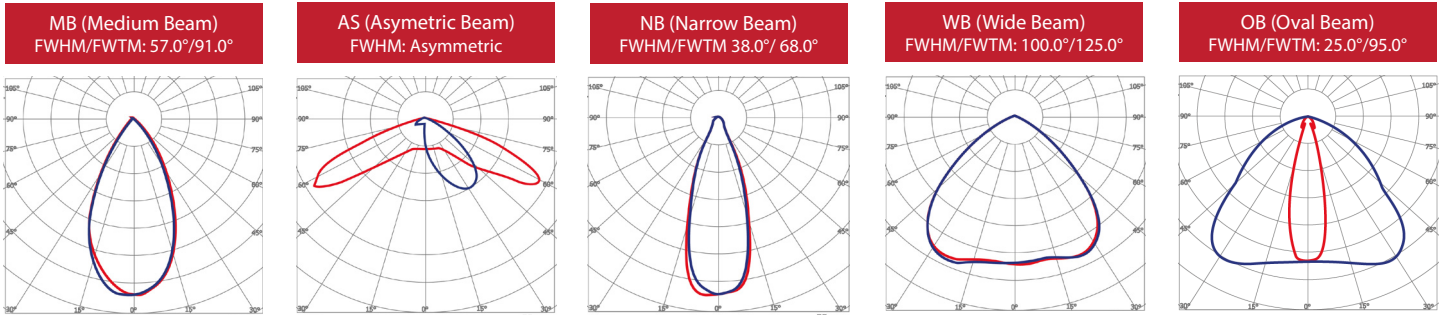


AMO180

option



DISTRIBUTION CURVES



As standard, the optics in the emergency module are the same as in the other modules.

CONFIGURATIONS

EXL450LED-EX - - 24E-50 - - - ALU - - - - - A3 - -

group	2	1	70	10	M	20	GL	NB	AMO90	3F	PRG
explosionproof light fittings	3	2		20	P	25	PC	MB	AMO180		VENT
type	4							WB	AMO360		
type 450								OB			
light source								ASY			
LED modules											
LED module type											
LED module quantity											
driving current											
power supply											
24E - 220-240V, 50-60Hz											
wiring											
50 - single 5-pole terminal → 5 (1-phase)											
70 - single 7-pole terminal → 7 (3-phase)											
cable inlets - quantity											
10 - one cable inlet on the side of the housing → 1 0											
20 - two cable inlets on the side of the housing → 2 0											
cable inlets - material											
M - metal											
P - plastic											
cable inlets - size											
20 - Ø20											
25 - Ø25											
housing material											
ALU - anodized aluminum											
diffuser material											
GL - tempered glass											
PC - UV stabilised polycarbonate											
optics											
NB - narrow beam											
MB - medium beam											
WB - wide beam											
OB - oval beam											
ASY - asymmetric beam											
mountings											
check: mountings											
additional options											
3F - version adapted to work in a three-phase network, equipped with wiring 70 (L1, L2, L3, PE, N)											
emergency version											
A3 - additional emergency power module											
additional accessories											
PRG - version equipped with protection grid on the diffuser											
VENT - version equipped with explosionproof ventilated plugs (recommended in external use of the fitting)											

DOWNLOADS

