



WOLF FM/ATEX TURBOLITE

Class 1 Div 1
Compliant

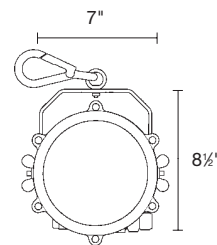
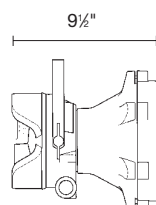
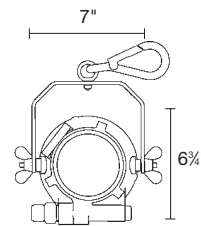
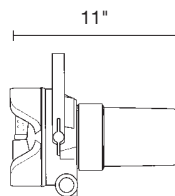
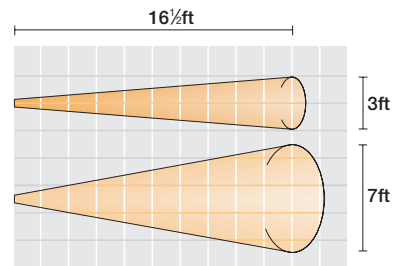


- FM listed Class 1 Div 1 Groups A,B,C,D
- Aluminium super-lightweight construction
- 250 watt Halogen light output
- Safe compressed air power source
- Re-designed for greater reliability
- Fitted with stainless steel exhaust silencer
- Dust ignition protected for zones 21 and 22 using remote exhaust
- Group I Mining approval with alternative brass construction
- Dual approvals US Factory Mutual and FM/ATEX
- MSHA approval
- Does not trail an electric cord

A-TL45A/B



A-TL44A/B



Wolf Turbolite A-TL44A/B
250w with ball glass for all round illumination
Peak luminous intensity at 8ft radius **70lux**

Wolf Turbolite A-TL45A/B
250w with polished reflector spot beam (approx 10°)
Peak luminous intensity at 16 1/2ft **2000lux**

Wolf Turbolite A-TL45A/B
250w with matt reflector flood beam (approx 25°)
Peak luminous intensity at 16 1/2ft **950lux**



Aluminium
super-lightweight
construction

Wolf FM/ATEX Turbolite lamps are high power compressed air driven units for use in potentially explosive atmospheres. With a safety record of 75 years, Wolf Airlamps are one of the safest high power portable lamps for hazardous areas.

The new generation FM/ATEX Turbolite meets EN 1127 – ‘Explosion prevention and protection’, for Europe; and in the USA, FM Class 3600 ‘Electrical Equipment for use in Hazardous (Classified) Locations’.

Used extensively in the petrochemical, oil and marine industries, Wolf Airlamps provide illumination in many applications including shotblasting, cleaning and coating of storage tanks and vessels, and for pipeline and structural engineering activities, offering a safer alternative to electric low voltage lighting where explosive atmospheres present a serious risk to the workforce.

The standard range consists of two models, both produced in high strength aluminium alloy. The **A-TL44A** ‘Bay Light’ version provides a high level of all-round general illumination. The **A-TL45A** ‘Floodlight’ version has a reflector head with a matt reflector giving a wide-angle diffused beam.

The ‘**A**’ suffix denotes FM/ATEX lightweight aluminium models, **reducing Turbolite weight to approximately half** that of the brass airlamps. Alternative ‘**B**’ suffix models A-TL44B and A-TL45B are also FM/ATEX but with brass housings, usable in gassy mines. All lamps are nickel plated to protect against corrosion and are supplied with a bridle and safety snap hook fitted.

The Turbolite is powered, purged, pressurised and cooled by compressed air controlled by an integral regulator, which passes through the lamp head and drives the turbine wheel by means of three

nozzle plates. The turbine drives a magnet rotor within windings, generating the 24 Volt ac electrical supply which powers the 250 Watt halogen bulb.

Major improvements over the existing models, include sealed bearings, a refined regulator, greater use of stainless steel components, a bulb-life enhancing device and a new silencer, incorporating a particle trap.

Special conditions of certification for all Turbolites are that clean, dry compressed air and anti-static air hose are used to operate the lamp, minimising contamination inside the lamp. When used in potentially explosive dust atmospheres a ‘remote exhaust’ must be used, exhausting air to the safe area.

A full range of accessories is available, including anti-static hose, filters, filter stands, airlamp tripods and setting and testing devices.

Wolf FM Turbolite					
Technical Specification					
Product reference		A-TL44FMA	A-TL44FMB	A-TL45FMA	A-TL45FMB
Product description		Safety bay light, compressed air powered		Safety flood light, compressed air powered	
Code	FM	Class 1 Div 1 Groups A, B, C, D. T4 Ta = 55°C			
	MSHA code	10C-35-4			
	FM/ATEX Industrial	Ⓔ II 2 GD II T4 (Tamb = 55°C) T135°C			
	FM/ATEX Mining	–	Ⓔ I M2	–	Ⓔ I M2
Equipment category		2 GD			
		–	M2	–	M2
Apparatus standards		EN1127:1998			
Type of protection		Technical File			
Area of classification (gases)		Zones 1 and 2, Gas Groups IIA, IIB, IIC			
Temp. classification (gases)		T4			
Area of classification (dusts)		Zones 21 and 22			
Max surface temp. (dusts)		T135°F			
Ambient temperature		-4°F to +104°F			
Certificate		SIRA02FM/ATEX5099X			
Enclosure		Aluminium	Brass	Aluminium	Brass
Lens		Ball glass/plastic dome		Toughened glass (½")	
Beam type		All-around 360° illumination		Flood (as standard) or spot to order	
Light source:	Pt. no.	A-129 (as standard)/ A-159 (alternative)			
	Type	Halogen filled filament bulb			
	Volts	24v			
	Watts	250w			
	Output	6000 lm/9000 lm			
	Life	2000 hrs/200 hrs			
Power source:	Type	Compressed air driven turbo-alternator			
	Air pressure	72-116 psi			
	Consumption	18-20 cubic ft/min			
Ingress protection		Once pressurised, may be used underwater			
Weight		12lb	21lb	15½lb	30lb
Special certification conditions		A clean dry air supply must be used Supply hose must be anti-static Lamps used in explosive dust atmospheres must have a remote exhaust hose to the safe area			

Note: All information has been gathered under laboratory conditions, the user must regard the values given as approximate. The Company reserves the right to alter product specifications without prior notice.

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