

Airturbo

Zones: 1 and 2



Tel: +44 (0)191 490 1547
Fax: +44 (0)191 477 5371
Email: northernsales@thorneandderrick.co.uk
Website: www.cablejoints.co.uk
www.thorneandderrick.co.uk



Product Overview

The Airturbo, originally used to meet the rigorous requirements of underground explosion proof lighting for coal mines, is BASEEFA certified for use in Zones 1 and 2 industrial hazardous areas, typically in oil and petrochemicals industries for tank cleaning and pipeline inspections.

Once connected to a suitable air supply, continuous output of high quality general illumination is produced, even under water. The A-0444 is fitted with a bay light type head providing all round illumination when suspended in the work area and the moulded ball glass containing the bulb is surrounded by a protective polycarbonate dome. The A-0445 provides a flood beam giving a well diffused 30° angle of light with the standard matt reflector, or with a polished reflector, a highly concentrated spot light. The lamp has a 15mm toughened glass lens for high impact strength and pressure resistance.

Housings are spark free cast brass with a forged brass safety hook, all nickel-plated. The generator is a compressed air driven turbo-alternator of simple design and robust construction and a gunmetal impulse turbine wheel produces the energy to power the 12v 55w Tungsten Halogen bulb.

A clean dry air supply is a condition of certification and essential for the efficient running of these lamps. Deposits of dirt on the inside of the lens will adversely affect the level of illumination and if needed, air-line filters can be supplied. Another mandatory requirement of safe use is anti-static hose, designed to avoid a dangerous build up of static electricity. The Airturbo has many inherent safety features, recognised by BASEEFA; effectively pressurised and purged system, protective curtain of air from the exhaust ports, instant cut-off of the lamp if the lens is broken and cooling of heat generating components. Lamps are routinely run in, tested and set to the necessary output prior to despatch.

Features & Benefits

- Safe Compressed Air Power
- Reversed Air Safety Feature
- Pressurised and Purged System
- 55 Watt Long-life Halogen Bulb
- Economical 0.25m³/min Consumption
- Full Accessory Range Available

Certifications

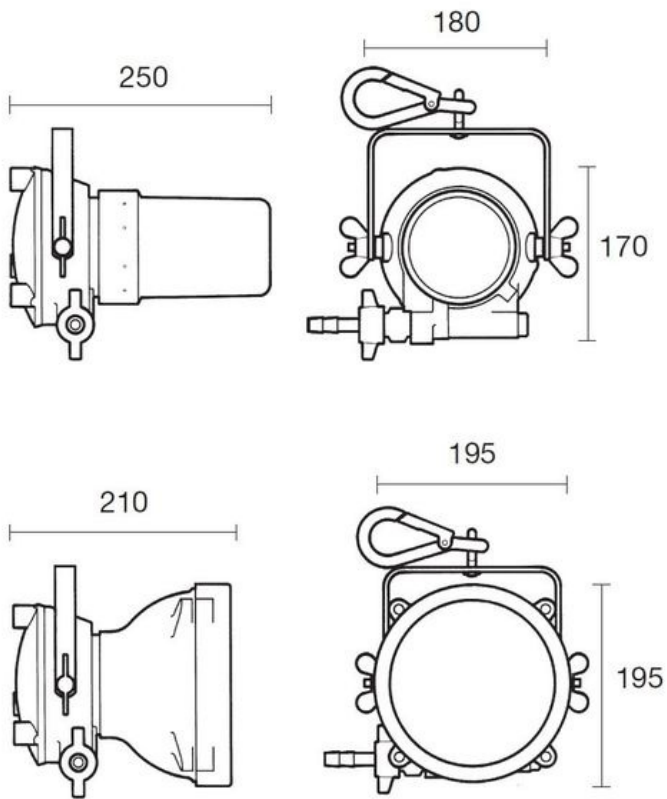
EX (NON ATEX)

Technical Specification

Product Reference		A-0444	A-0445
Product Description		Safety Bay Lamp Compressed Air Powered	Safety Floodlamp Compressed Air Powered
Code		Ex s II T6	
Apparatus Standards		SFA 3009:1972	
Type of Protection		's' special protection	
Area of Classification (Gas)		Zones 1 and 2, Gas Groups IIA, IIB and IIC	
Temp. Classification		T6	
Ambient Temperature		-20° C to +40° C	
Certificate		BASEEFA Ex 78209X*	
Enclosure		Nickel Plated Brass and Gun-metal	
Lens		Ball Glass/Polycarbonate Dome	Toughened Glass (15mm)
Beam Type		All-around 360° Illumination	Flood (Matt Reflector) (as standard) or Spot (Polished Reflector) (to order)
Light Source:	Part Number	A-1130	
	Type	Tungsten Halogen Filament Bulb	
	Volts	12v	
	Watts	55w	
	Output	1000lm (at 12v)	
	Life	1000hrs (at 12v)	
Power Source:	Type	Compressed Air Driven Turbo-alternator	
	Air Pressure	4.0-8.0 bar	
	Consumption	0.25m3/min	
Ingress Protection		Once pressurised may be used under water	
Weight		8.2kg	12.5kg
*Special Certification Conditions		A clean, dry air supply must be used. Supply hose must be anti-static.	

- All information has been gathered under laboratory conditions, the user must regard the values given as approximate.
- Changes may be made to the above specification without notification, details are available on request.

Product Dimensions



Light Output

A-0444 - Ball Glass

Peak luminous intensity at 2.5m radius **2lux**

A-0445 - Polished Reflector

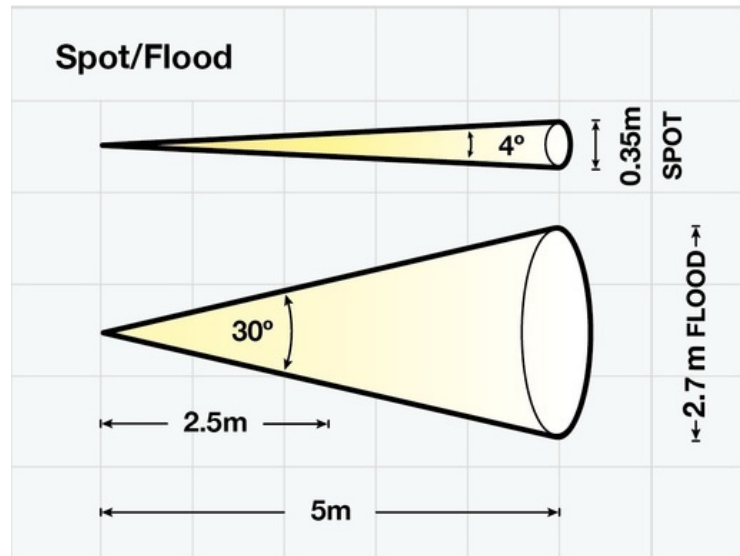
Spot Beam (approx 4°)

Peak luminous intensity at 5m **900lux**

A-0445 - Matt Reflector

Flood Beam (approx 30°)

Peak luminous intensity at 5m **40lux**



Version: SL034 DF440 Issue 3

T&D THORNE &
DERRICK UK

Tel: +44 (0)191 490 1547

Fax: +44 (0)191 477 5371

Email: northernsales@thorneandderrick.co.uk

Website: www.cablejoints.co.uk

www.thorneandderrick.co.uk