

MAGNAFLUX BLACKLIGHTS®

MAGNAGLO®

ZYGLO®

Fan-Cooled

**Designed especially
for NDT testing**

ZB-100F Portable Black Light System

Produces longwave ultraviolet light at 365 nanometers, providing optimum fluorescence in Magnaglo® and Zyglo® testing materials.

ZB-100F Fan-Cooled Black Light

- ▶ 100 watt black light with transformer, cords, G.F.I. and plug
- ▶ Built-in fan keeps light cool-to-the-touch
- ▶ Running temperature <85°F
- ▶ Typical output 5,000 $\mu\text{W}/\text{cm}^2$
- ▶ #600004 portable unit includes carrying base and stand for storage of cord
- ▶ #600005 Hand-held unit similar to #600004, except no carrying base provided



Cool-To-The-Touch

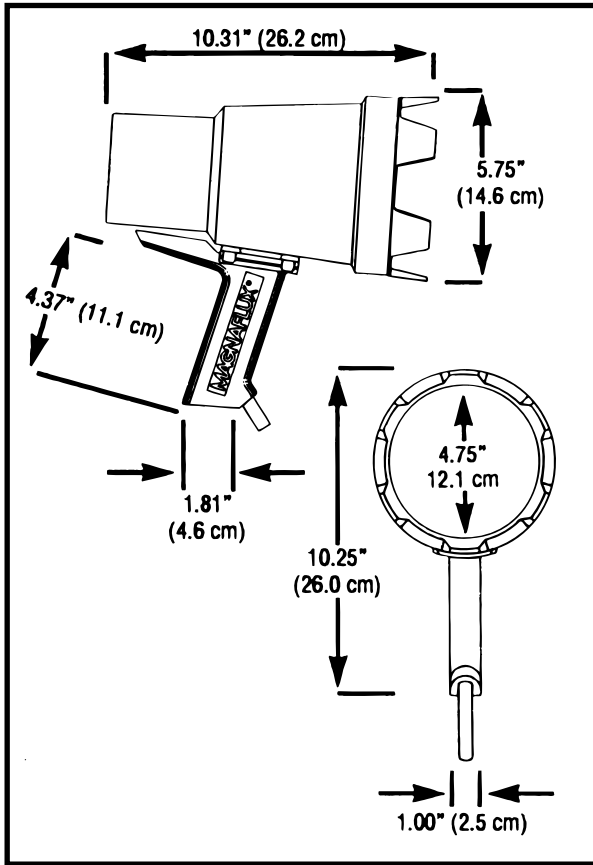


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MAGNAFLUX®

A Division of Illinois Tool Works Inc.

ZB-100F Portable Black Light System



Even with its integrated fan, the ZB-100F is still a comfortable, well-balanced black light for hand-held operation.

Features & Benefits

One significant feature that separates the ZB-100F from other black lights – **it has a built-in, quiet-operating DC fan** located at the rear of the lamp housing. The advantage of this design feature is obvious – dramatically reduced running temperature. In practical terms, the fan-cooled ZB-100F means more comfort and safety for operators plus longer bulb life.

Because black lights are often hand-held during fluorescent inspections, the heat they create is an important consideration. The typical running temperature of the ZB-100F is less than 85 degrees Fahrenheit, so it does not significantly raise the ambient temperature around the operator, nor is it a safety concern.

The ZB-100F also shares all of the features of the ZB-100, our most popular NDT black light.

- ▶ Polycarbonate Air-Flo™ bezel allows air to cool lens in the rest position, and helps keep operators' hands away from lens glass during use
- ▶ Cord-through-handle design reduces operator fatigue, improves balance and provides greater safety
- ▶ Fiberglass-reinforced handle always stays cool
- ▶ Tough aluminum housing withstands rugged use
- ▶ Recessed lens protects lens and bulb from damage

Technical Specifications

- ▶ Power Supply: 115V/50 or 60Hz/1PH
- ▶ Current Draw: 1.9 amps
- ▶ Typical Visible Light: 10 Lux or 1 ft. candle @ 15" (38 cm)
- ▶ Bulb: 100 watts
- ▶ Running Temperature: 85°F (30°C) @ 70°F 13 amps @230 VAC
- ▶ Weight – Hand Lamp: 3 lbs. (1.4 kg)
- ▶ Weight – Hand Lamp: 12.5 lbs. (5.7 kg) Control Unit
- ▶ Lamp to Control: 10 ft. (3.1 m) Cable Unit
- ▶ Main Cable Supply: 12 ft. (3.7 m) with Ground Fault Protection
- ▶ UV Intensity meets industry and military standards @ 15" (38 cm)



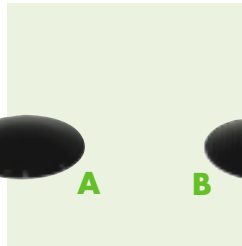
Black Light Bulbs



100W Medium Base Bulb (#507320)

- ▶ 100 watt Spotlight bulb, replacement for ZB-100 and ZB-100F models and all other MAGNAFLUX 100 watt lamps made **after** May 1982

Filters



A) Smooth Filter Glass (#519227)

- ▶ For use with ZB-100 and ZB-100F models

B) Fluted Filter Glass (#3901)

- ▶ Similar to # 519227, but fluted for a more diffused output pattern

UV-Absorbing Spectacles



UV-Absorbing Spectacles (#506249)

- ▶ Reduces eye fatigue from exposure to UV light emission

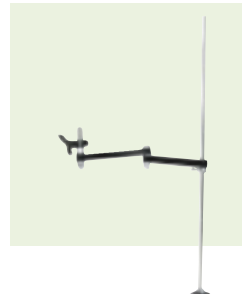
Mounting Hardware

Side mounts, tabletop assemblies and wall brackets facilitate the use of black lights in a variety of applications.



ZB-100/100F Side-Mount Assembly (#600029)

- ▶ Bracket mounts on side of horizontal units
- ▶ Movable pivot arms for adjustment of black light
- ▶ Light assembly lifts from fixture for portable use

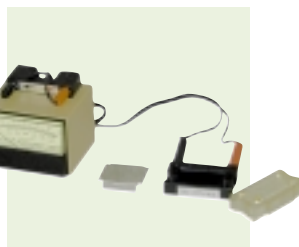


ZB-100/100F Tabletop Mount Assembly (#600026)

- ▶ Fasten base to any horizontal surface
- ▶ Movable pivot arms for adjustment of black light
- ▶ Light assembly lifts from fixture for portable use

Light Meters

All MAGNAFLUX light meters meet major specs, including ASTM E 1417 and ASTM E 1444 (replaced MIL-STD-1949A) and include instructions and certification report.



Analog Black Light Meter Model J-221 (#108254)

- ▶ Accurately measures black light intensity (microwatts/cm²)
- ▶ Includes longwave sensor cell, reduction screen contrast filter and extension cord



Digital Meter Model DSE-100X (#519567)

- ▶ Accurately measures both visible light (footcandles) and black light (microwatts/cm²)
- ▶ Includes digital radiometer/photometer, black light and visible light sensors
- ▶ **Carrying Case (#519294)** also available



Digital Black Light Meter Model DM-365X (#507522)

- ▶ Accurate digital readout of black light intensity, tuned at 365 nanometers (microwatts/cm²)
- ▶ Includes meter and black light sensor
- ▶ **Carrying Case (#519294)** also available

MAGNAGLO® Fluorescent Materials Kit

- Product** ▶ **MAGNAGLO® Kit**
Part# ▶ **600030**
Bath ▶ 14AM Magnaglo Bath, 6 aerosol cans
Cleaner ▶ SKC-S, 2 aerosol cans
Black Light ▶ ZB-100 in plastic case, 100w, 115v, 60Hz
- Plastic case for materials, can gun, wire brush, 6 wiping cloths and instructions. Used with yoke, coil or power supply.



ZYGLO® Fluorescent Penetrant Kit

General Purpose (Non-Halogenated) Zyglo® kit

- Product** ▶ **ZA-60**
Part# ▶ **600032**
Penetrant ▶ ZL-27A, 2 aerosol cans
Developer ▶ ZP-9F, 2 aerosol cans
Dry Developer ▶ ZP-4B, 1 pint can
Cleaner ▶ SKC-S, 3 aerosol cans
Black Light ▶ ZB-100 and plastic case, 100w, 115v, 60Hz

Plastic case for materials, can gun, wire brush, 6 wiping cloths and instructions.



Refill Kit for ZA-60 Kit

- Product** ▶ **ZA-60R Refill Kit**
Part# ▶ **1-3926-48**
Penetrant ▶ ZL-27A, 2 aerosol cans
Developer ▶ ZP-9F, 2 aerosol cans
Dry Developer ▶ ZP-4B, 1 pint can
Cleaner ▶ SKC-S, 3 aerosol cans

Plastic case for materials, can gun, wire brush, 6 wiping cloths and instructions.

Your authorized MAGNAFLUX® Distributor is:



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