

# DEUTERIUM ARC LAMP - P727

## UV Light Source for Spectroscopy – 3 volt

### Instrument

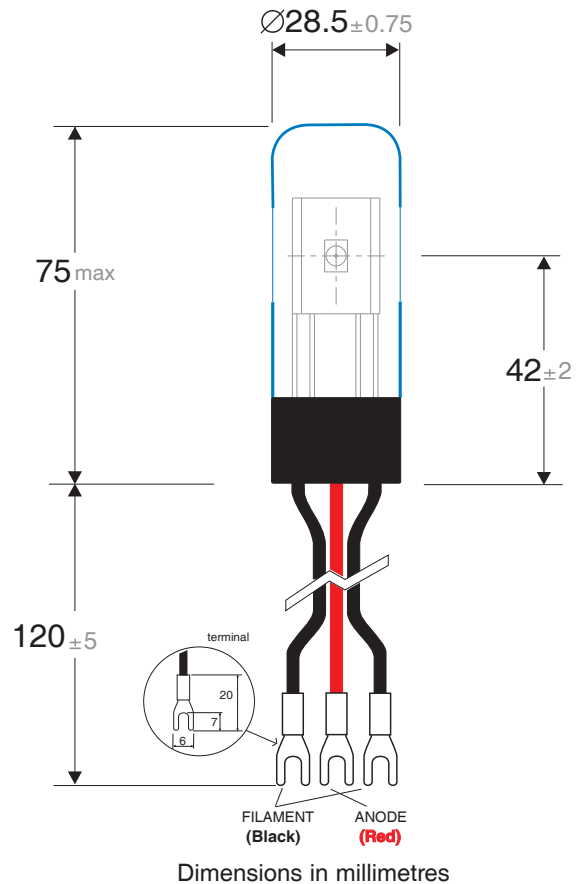
Perkin Elmer

### Electrical

|                         |           |                    |
|-------------------------|-----------|--------------------|
| Filament/Heater Voltage | Start     | 3.0 VDC            |
|                         | Operating | 1.5~2.0 VDC        |
| Filament/Heater Current |           | 4.5A Max           |
| Discharge/Arc Voltage   | Strike    | @25° > 350VDC      |
|                         | Operating | 60 - 90 VDC        |
| Discharge/Arc Current   |           | 10 - 300mA         |
| Leads                   | Black     | Filament & Cathode |
|                         | Red       | Anode              |
| Terminals               |           | 4mm Spade          |

### Optical

|                  |   |
|------------------|---|
| Window           | UV Transmitting Borosilicate            |
| Aperture type    | 1mm Circular                            |
| Wavelength range | 185nm - 400nm                           |
| Noise            | < 1 x 10 <sup>-4</sup> Absorption units |
| Drift            | < 3 x 10 <sup>-3</sup> Absorption units |



### Operational life

When radiant energy reaches 50% of the initial energy. Typical life 1500 hours

This Deuterium lamps is guaranteed for a period of one year from date of delivery or 1000 hours usage, which ever comes first.

### Warranty

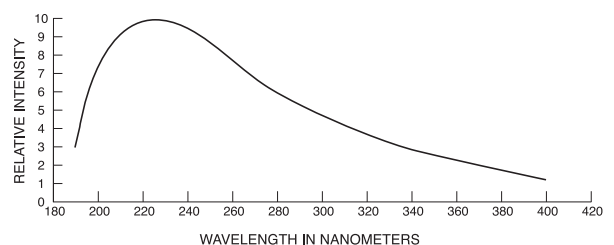
Free of charge replacement lamp will be provided where Photron is satisfied the following conditions have been adhered to.

- Lamp is returned to supplier freight paid.
- Lamp has been operated within our recommended specifications.
- Lamp has not failed due to accidental, misuse or transit damage.
- If a replacement lamp is supplied the validity of guarantee shall commence from delivery date of original lamp.

### Precautions for use

- Do not subject the lamp to mechanical shock.
- Ensure glass envelope is free from foreign material. Lamp may be wiped using alcohol liquid.
- Caution! UV transmitting window is very thin. Handle with care.
- Care must be taken not to contact lamp with bare hand, temperature can reach over 200°C during operation.
- UV Radiation is harmful to the eyes. Do not observe light output directly.
- Deuterium lamps operate at high voltages. Extreme caution is required to prevent electrical shock.

### Spectrum of Deuterium Emissions



**PHOTRON** PTY. LTD.  
LIGHTEN YOUR HORIZON

Unit 5 - 3 Vesper Drive, Narre Warren, Victoria, Australia 3805

Tel: 6-13-9704-9933 • Fax: 6-13-9704-6289

sales@photron.com.au • service@photron.com.au

www.photronlamp.com

Quality Certified for ISO9001:2000