TRAP-IT™ beam dumps are a Kentek exclusive. Our beam dumps cover a broad spectrum of laser applications and handle them all with unparalleled safety. TRAP-IT™ beam dumps are available in convection-cooled and water-cooled configurations. Choose from several sizes, with or without a stand.

- Average Power Range 0-1000 Watts/Joules
- Use with Continuous Wave or Pulsed lasers
- Non-Reflective, Matte Black Finish
- Cleanroom Friendly
- Mount Inside Enclosures or on Optical Tables

Having a dedicated spot where the beam can dissipate its light energy into heat energy will safely reduce the risk of exposure to people and equipment within the facility.

- Convection-cooled units are rated for 0-50 watts average power
- Water-cooled units are rated for 0-1000 watts average power

To find average power for pulsed lasers multiply the single shot energy by the repetition rate. For example, if the energy per pulse is 10 Joules and the repetition rate is 60 Hz, the average power would be 600 Watts, 10(J) x 60(Hz) = 600 average watts.

A safe power density for convection- and water-cooled beam dumps under most applications would be 150W/cm². We suggest a lower power density of 100W/cm² for the following lasers: Excimer, Ruby, and CO₂.

All beam dumps could suffer damage to the finish over time; ours have been designed to keep reflection to a minimum even with the finish removed. We recommend using optics to expand the beam to a larger diameter if needed.

Unsure of what you need to safely contain your laser? Call and discuss your application with a Kentek representative today!
Trap-It™ 3/4” Convection-Cooled
3/4 Inch Aperture, Rated 0-50 Watts
Includes stand and adjustable post.
Order# - ABD-0.75

Does not include stand or adjustable post.
Order# - ABD-0.75NP

Trap-It™ 2” Convection-Cooled
2 Inch Aperture, Rated 0-50 Watts
Includes stand and adjustable post.
Order# - ABD-2

Does not include stand or adjustable post.
Order# - ABD-2NP

Trap-It™ 3/4” Water-Cooled
2 Inch Aperture, Rated 0-50 Watts
Includes stand and adjustable post.
Order# - ABD-2C

Does not include stand or adjustable post.
Order# - ABD-2CNP

Trap-It™ 4” Water-Cooled
4 Inch Aperture, Rated 0-1000 Watts
Includes stand and adjustable post.
Order# - ABD-4C

Does not include stand or adjustable post.
Order# - ABD-4CNP

Trap-It™ 2” Dual Cone Convection-Cooled
4 Inch Aperture, Rated 0-50 Watts
Includes stand and adjustable post.
Order# - ABD-1000

Trap-It™ 4” Dual Cone Convection-Cooled
4 Inch Aperture, Rated 0-50 Watts
Includes stand and adjustable post.
Order# - ABD-1000