

BEAM DUMPS

Water-Cooled Beam Dumps for High Power Lasers



KEY FEATURES

- 1. **EASY-TO-USE**
Just plug the water-cooling and you're done!
- 2. **2 MODELS TO CHOOSE FROM**
 - 4 kW : BD-4KW-HE
 - 12 kW : BD-12KW-HD
- 3. **VERY LARGE APERTURE**
The round aperture of 100 mm in diameter accommodates even the largest beams
- 4. **HIGH DAMAGE THRESHOLDS**
Up to 16 kW/cm² (at 500 W)
- 5. **ISOLATION TUBE IN OPTION**
It is possible to add an isolation tube to reduce back reflections

AVAILABLE MODELS



BD-4KW-HE
4 kW Beam Dump



BD-12KW-HD
12 kW Beam Dump

ACCESSORIES



Stand with Steel Post
(Model Number: 201102)



Pelican Carrying Case

SEE ALSO

UP55-HD	100
HP	102
SUPER HP	104
LIST OF ALL ACCESSORIES	196

MONITORS

ENERGY DETECTORS

POWER DETECTORS

HIGH POWER SOLUTIONS

PHOTO DETECTORS

THZ DETECTORS

OEM DETECTORS

SPECIAL PRODUCTS

BEAM DIAGNOSTICS

BEAM DUMPS

SPECIFICATIONS

	BD-4KW-HE	BD-12KW-HD
MAX AVERAGE POWER (CONTINUOUS / 2 MINUTES)	4 000 W / 4 500 W	12 000 W / 12 000 W
EFFECTIVE APERTURE	100 mm Ø	100 mm Ø
COOLING METHOD	Water-Cooled	Water-Cooled
DAMAGE THRESHOLDS		
Maximum Average Power Density ^a		
500 W	10 kW/cm ²	16 kW/cm ²
4 kW	4 kW/cm ²	---
5 kW	---	6.5 kW/cm ²
10 kW	---	3.5 kW/cm ²
PHYSICAL CHARACTERISTICS		
Effective Aperture	100 mm Ø	100 mm Ø
Absorber (High Damage Threshold)	HE	HD
Required Cooling Flow	(4 - 6) LPM < ±1 LPM/min ^b	(6 - 10) LPM < ±1 LPM/min ^b
Temperature of Cooling Water	(15 - 25) °C < ±3°C/min ^b	(15 - 25) °C < ±3°C/min ^b
Dimensions	127H x 127W x 74D mm	127H x 127W x 70D mm
Weight (head only)	1.8 kg	3.3 kg
ORDERING INFORMATION		
Product Name	BD-4KW-HE	BD-12KW-HD
Product Number (Including stand)	202937	202939

Specifications are subject to change without notice

a. At 1064 nm, 1.07-1.08 µm and 10.6 µm.

b. > 1 min. Contact Gentec-EO for clean deionized water cooling module option.