

BEAM DUMPS

Water-Cooled Beam Dumps for High Power Lasers



KEY FEATURES

- EASY-TO-USE**
Just plug the water-cooling and you're done!
- 2 MODELS TO CHOOSE FROM**
 - 4 kW : BD-4KW-HE
 - 12 kW : BD-12KW-HD
- VERY LARGE APERTURE**
The round aperture of 100 mm in diameter accommodates even the largest beams
- HIGH DAMAGE THRESHOLDS**
Up to 16 kW/cm² (at 500 W)
- 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	96
HP	98
SUPER HP	100
LIST OF ALL ACCESSORIES	186

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.

MONITORS

ENERGY DETECTORS

POWER DETECTORS

HIGH POWER SOLUTIONS

PHOTO DETECTORS

THz DETECTORS

OEM DETECTORS

SPECIAL PRODUCTS

BEAM DIAGNOSTICS