

BD

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

REDUCE BACK-REFLECTIONS

All BD models can be fitted with a water-cooled absorbing TUBE to reduce the back-reflections below 4 %. The TUBE extension is backward-compatible so it can be added to your current BD unit.



ACCESSORIES



Stand with steel post



Pelican carrying case



Water filter
(Metric: 202984,
Imperial: 202990)



	BD-4KW-HE	BD-12KW-HD
MAX AVERAGE POWER (CONTINUOUS / 2 MINUTES)	4000 W / 4500 W	12 000 W / 12 000 W
EFFECTIVE APERTURE	100 mm ϕ	100 mm ϕ
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 ϕ	100 mm ϕ
Absorber (high damage threshold)	HE	HD
Cooling water		
Required cooling flow	(4 - 6) LPM	(6 - 10) LPM
Temperature range	(15 - 25) °C	(15 - 25) °C
Dimensions	127H x 127W x 74D mm	127H x 127W x 70D mm
Weight (head only)	1.8 kg	3.3 kg
ORDERING INFORMATION		
Compatible stand	STAND-S-443-C	STAND-S-443-C
Product page		

a. At 1064 nm, 1.07-1.08 μ m and 10.6 μ m.