

# Bodor Pro Series

Self-Cooling Handheld Laser Welder



# Redefining Self-Cooling Revolutionizing Handheld Welder

24/7 Stable Operation Self-cooling Continuous Light Output



# Constant Temperature Suitable For Worldwide

In extreme environments ranging from  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$  or in 90% air humidity,  
it can provide a stable and exceptional welding experience.

$-20^{\circ}\text{C}$  ↔  $60^{\circ}\text{C}$



**-20 °C**  
Temperature

**81 %**  
Humidity

bodor

# Uninterrupted Continuous Light Output

It has endured thousands of tests in extreme cold and high humidity conditions in the state-level enthalpy difference laboratory, gaining authoritative testing and certification!



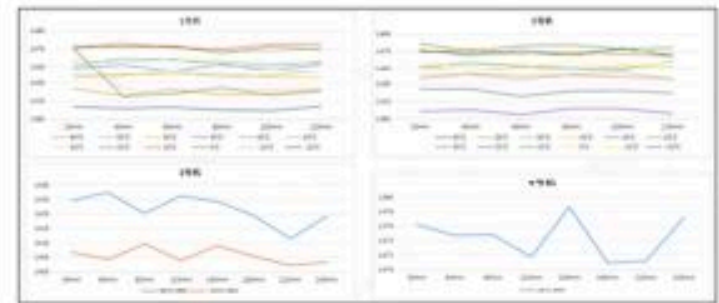
**BodorWelder 1500极寒及高温测试报告**

时间: 2023/06/01-2023/08/30  
地点: 山东博科环境设备有限公司

焓差实验设备配置

一、实验目的:  
为使BodorWelder 1500在全球范围内各种气候环境下稳定运行, 在对全球气候环境调研之后, 对该设备设计以下实验, 以保证能给客户带来持久利益, 并让客户感受到一流的使用体验。

二、实验设计:  
1. 不同批次生产的BodorWelder 1500设备4组。  
2. 在温度: -20°C~60°C, 湿度: 30%~90%, 以湿度T为基准前提下进行以下实验:  
① 1号机, 从60°C/80%开始, 当实际温度T<30°C时, 以每10°C 2H为阶梯, 当实际温度T>30°C时, 以每5°C 2H为阶梯, 温度递减至-20°C/40%进行长光实验。  
② 2号机, 从20°C/40%开始, 当实际温度T<30°C时, 以每10°C 2H为阶梯, 当实际温度T>30°C时, 以每5°C 2H为阶梯, 温度递增至60°C/80%进行长光实验。  
③ 3号机, 极寒/高温实验组, 在-20°C/30% 4H和60°C/90% 4H 长光实验。  
④ 4号机, 此组为对照组, 在25°C/50%长光4H。

三、实验结论:  
  
1. BodorWelder 1500在-20°C~60°C的温度, 30%~90%湿度下测试过程连续出光无异常。  
2. 当温度T>30°C和温度T<0°C时随着温度的升高/降低, 设备功率P的范围在1400~1430W以内波动, 并可稳定出光。  
3. 当温度在室温环境(25°C/50%)下, 设备出光功率范围为1470~1480W以内, 并可稳定出光。  
4. 实验过程中, 设备运行不受环境温度影响。



# 60 °C

Temperature

# 90 %

Humidity

bodor

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② 2号机, 从 20°C/40%开始, 当实际设定T<30°C时, 以每10°C 2H为阶梯, 当实际设定T>30°C时, 以每5°C 2H为阶梯, 湿度调增至60%/80%进行长出来实验。  
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# International Authoritative Certification

Tests by the authoritative CNAS indicate that steel welded by the Pro 1500 is strong and deformation-free and features smooth and aesthetically pleasing weld seams. The Pro 1500 has demonstrated superior advantages in bending, hardness, tensile strength, and other aspects with overall welding quality far surpassing other process levels.

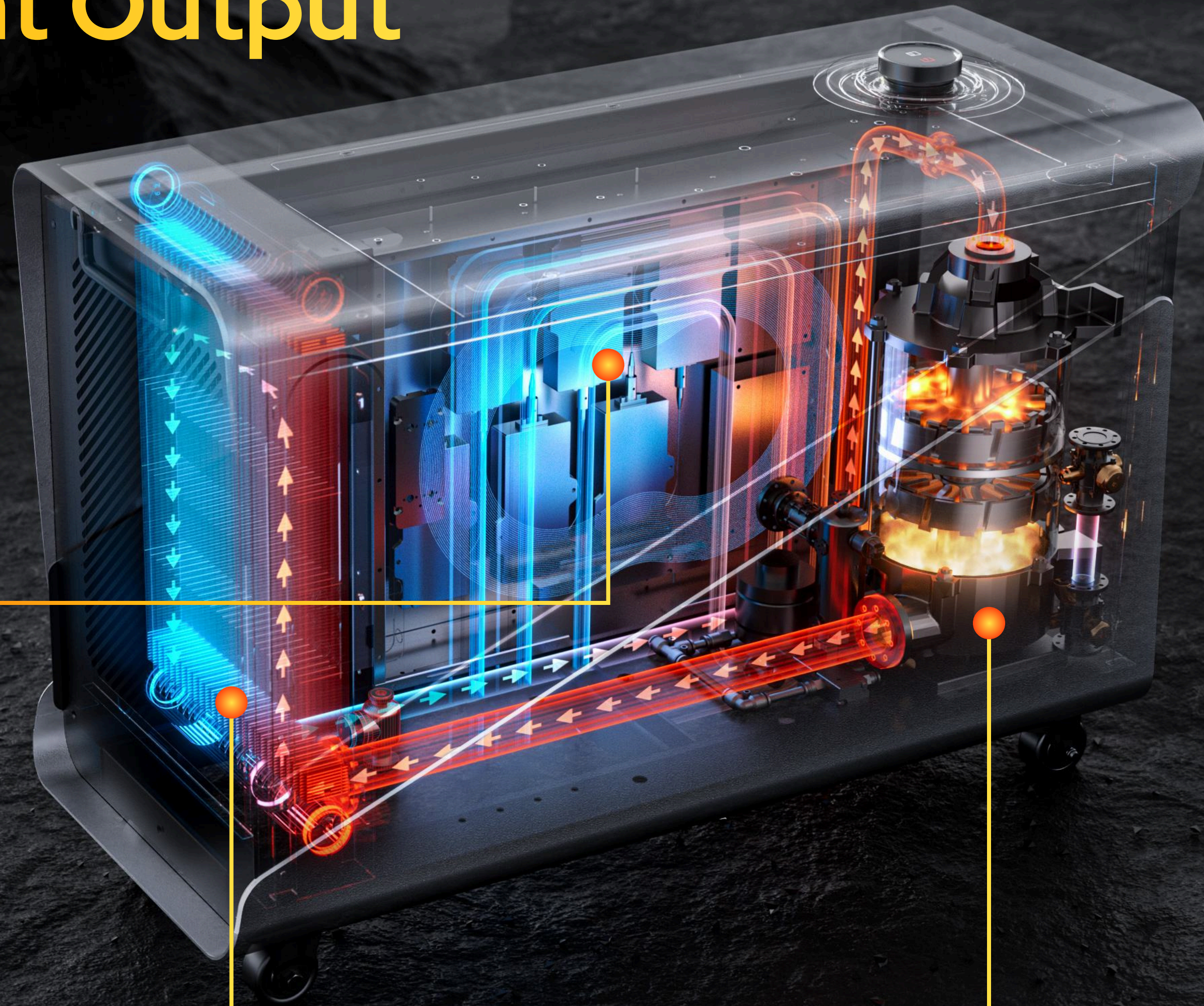


# Self-Cooling Technology Continuous Light Output

It utilizes Bodor's patented technology—the Intelligent Circulating Constant Temperature System. Automatic sensing and precise temperature control enable effortless continuous welding.

The self-developed high-converting light source brings lower heat generation and a continuous high-energy beam.

The high-performance condensation cooling device, with an ultra-large fin area and efficient cooling material, continuously dissipates heat, supporting long-lasting high-performance light output.



Using an efficient compressor and intelligent refrigerant control, the core components automatically cool, unaffected by external temperature changes.

# One-Click Control Effortless Mastery

The knob interactive design is elegant and simple, intuitive and easy to understand.



Parameter Adjustment



Processing Sets Saving



Start Processing

# High Performance Compact Appearance

Compared to traditional water-cooling welders, the self-cooling handheld laser welder **does not have an internal water tank**, resulting in a smaller size and lighter weight.

This makes it easier for users to handle complex welding tasks in different work locations.



# Smaller Size Larger Potential

The Bodor self-cooling handheld laser welder occupies only

**0.24 m<sup>2</sup>** of floor space.

Its iconic small size has great potential due to its intelligent temperature control technology.



# More Combinations More Choices

It is equipped with specialized welding/cutting nozzles, suitable for various processing scenarios, meeting diverse customer needs.

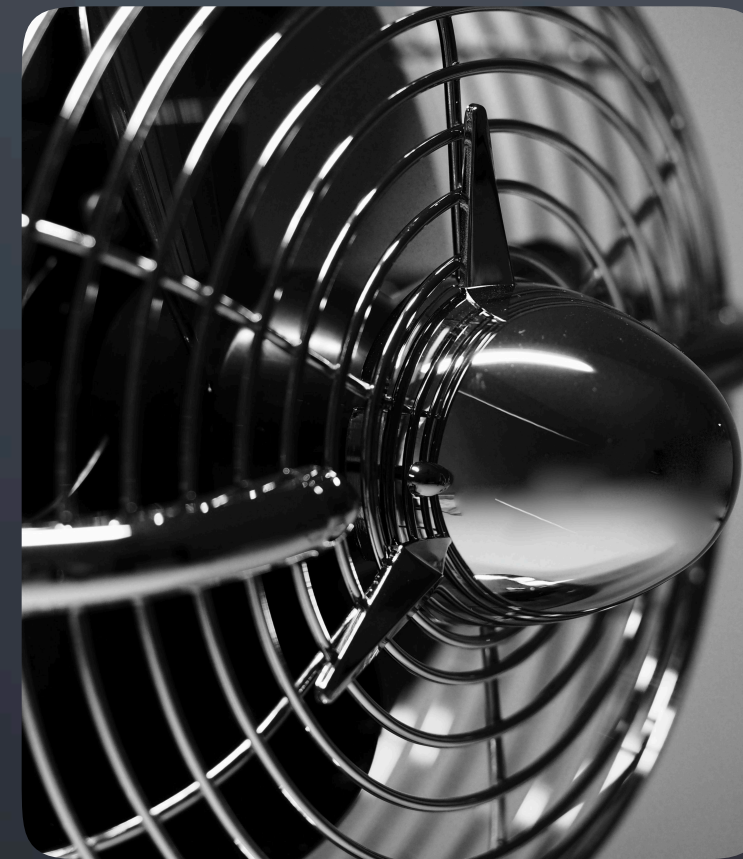




Self-Cooling Handheld Laser Welding Machine

## Applicable Industries

Widely applied in kitchenware, sheet metal processing, stainless steel products, ventilation ducts, shelves, crafts, stair handrails, computer cases, furniture, home appliances and other industries.





## Welder Pro Parameters

Pro 1500

Output Power 1500W

Length of Optical Fiber Cable 10m±0.5m

Cooling Method Self-Cooling

Constant Power Continuous Light Output ●

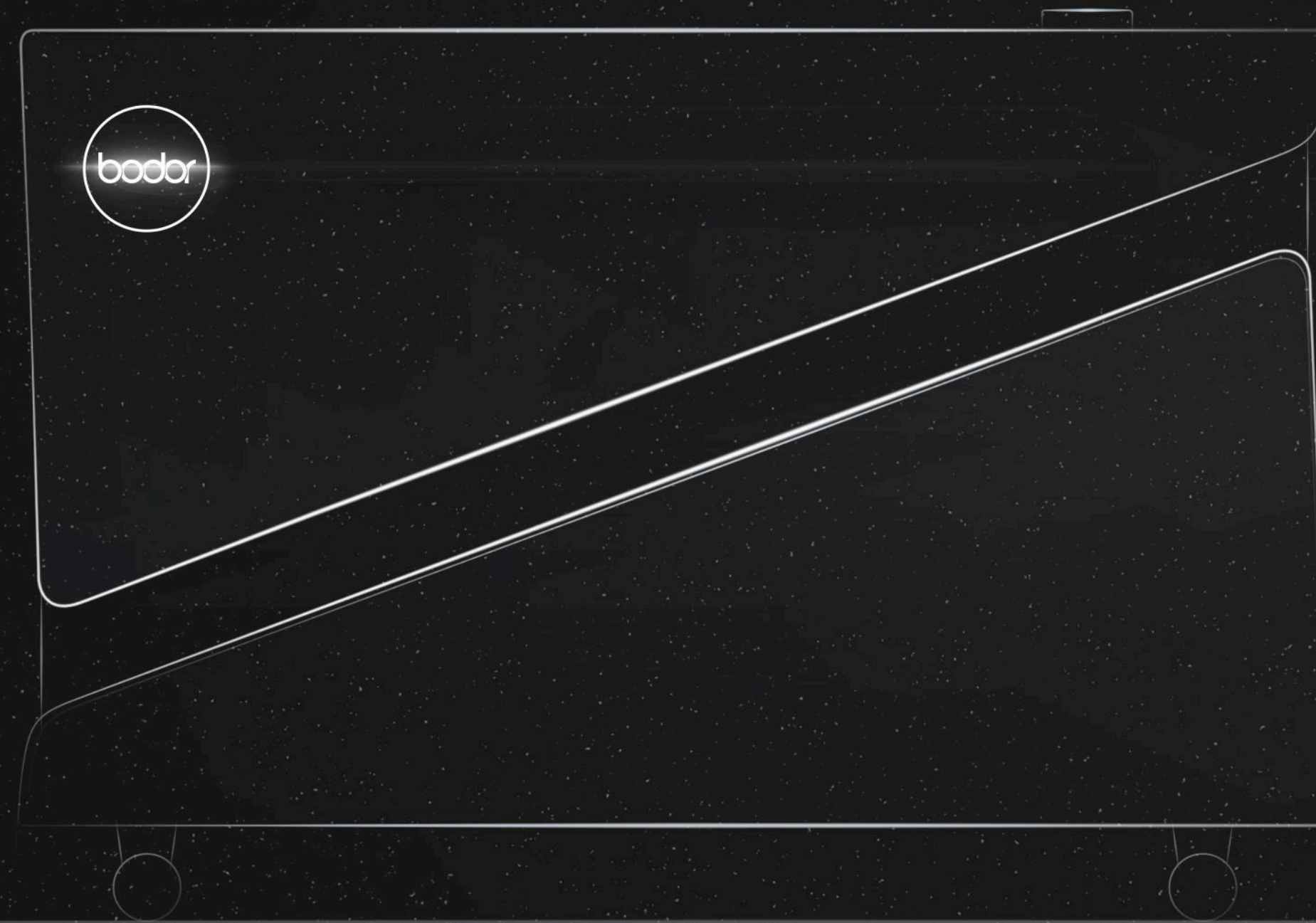
Operating Ambient Temperature Range -20°C to 60°C

Weight CE : 82kg  
GB : 65kg

Dimensions 850mm×420mm×570mm

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Dare to dream