

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°C to 60°C or in 90% air humidity,
it can provide a stable and exceptional welding experience.

-20°C ↔ 60°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: 2023/06/01-2023/06/30	温差实验设备配置
地点: 山东博科环境设备有限公司	

一、实验目的:
为验证BodorWelder 1500在全球范围内各种气候环境下稳定运行, 在全天气候条件测试之后, 对设备性能进行评估, 以保证能给客户提供持久利益, 并让客户感受到一流的使用体验。

二、实验设计:
1. 不同温度下BodorWelder 1500设备性能;
2. 在湿度: -20°C-60°C, 湿度: 30%-90%, 以湿度T为基准条件下进行以下实验:
① 1号机, 从60°C/80%开始, 当实际温度T<30°C时, 每隔10°C/2H为周期, 当实际温度T>20°C时, 以每5°C/2H为周期, 温度降至-20°C/40%进行连续实验;
② 2号机, 从20°C/80%开始, 当实际温度T<30°C时, 每隔10°C/2H为周期, 当实际温度T>30°C时, 以每5°C/2H为周期, 湿度增至60°C/90%进行连续实验;
③ 3号机, 极寒/高温实验组, 在-20°C/30%-4H和60°C/90%-4H 连续实验;
④ A号机, 此组为对照组, 在25°C/50%连续实验4H。

三、实验结论:

1. BodorWelder 1500在-20°C-60°C的湿度, 30%-90%湿度下测试均有连续出光现象;
2. 当实际T>30°C和实际T<0°C时随着温度的升高/降低, 设备功率均在1400-1600W以内波动, 并可稳定出光;
3. 当设备在湿度环境 (25°C/50%)下, 设备出光功率波动为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

Uninterrupted Continuous Light Output



It has endured thousands of tests in high temperature and 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: 2023/06/01-2023/06/30
地点: 山东博科环境设备有限公司

一、实验目的:
为BodorWelder 1500在全球范围内气候环境下稳定运行, 在气候条件极端恶劣之后, 对设备性能进行评估, 以保证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. 不同温度下生产BodorWelder 1500设备4套。
2. 在室温: 20°C-60°C, 湿度: 30%-90%, 以高温T为基准进行以下实验:
① 1号机, 从60°C/80%开始, 当实际温度T<30°C时, 以每10°C 2H为周期, 当实际温度T>20°C时, 以每5°C 2H为周期, 温度逐次降至-20°C/40%进行连续实验。
② 2号机, 从20°C/40%开始, 当实际温度T<30°C时, 以每10°C 2H为周期, 当实际温度T>30°C时, 以每5°C 2H为周期, 温度逐次增至60°C/90%进行连续实验。
③ 3号机, 模拟高温实验组, 在20°C/30%-40°C/50%-90% 4H连续实验。
④ 4号机, 模拟为对照组, 在25°C/50%连续实验4H。

三、实验结论:

1. BodorWelder 1500在20°C-60°C的室温, 30%-90%湿度下测试均有连续出光记录。
2. 当室温T>30°C和湿度T<0°C时随着温度的升高, 设备功率P的范围在1400-1600W以内波动, 并可稳定出光。
3. 当室温有变温环境 (25°C/50%)下, 设备出光功率波动在1470-1490W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。





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.

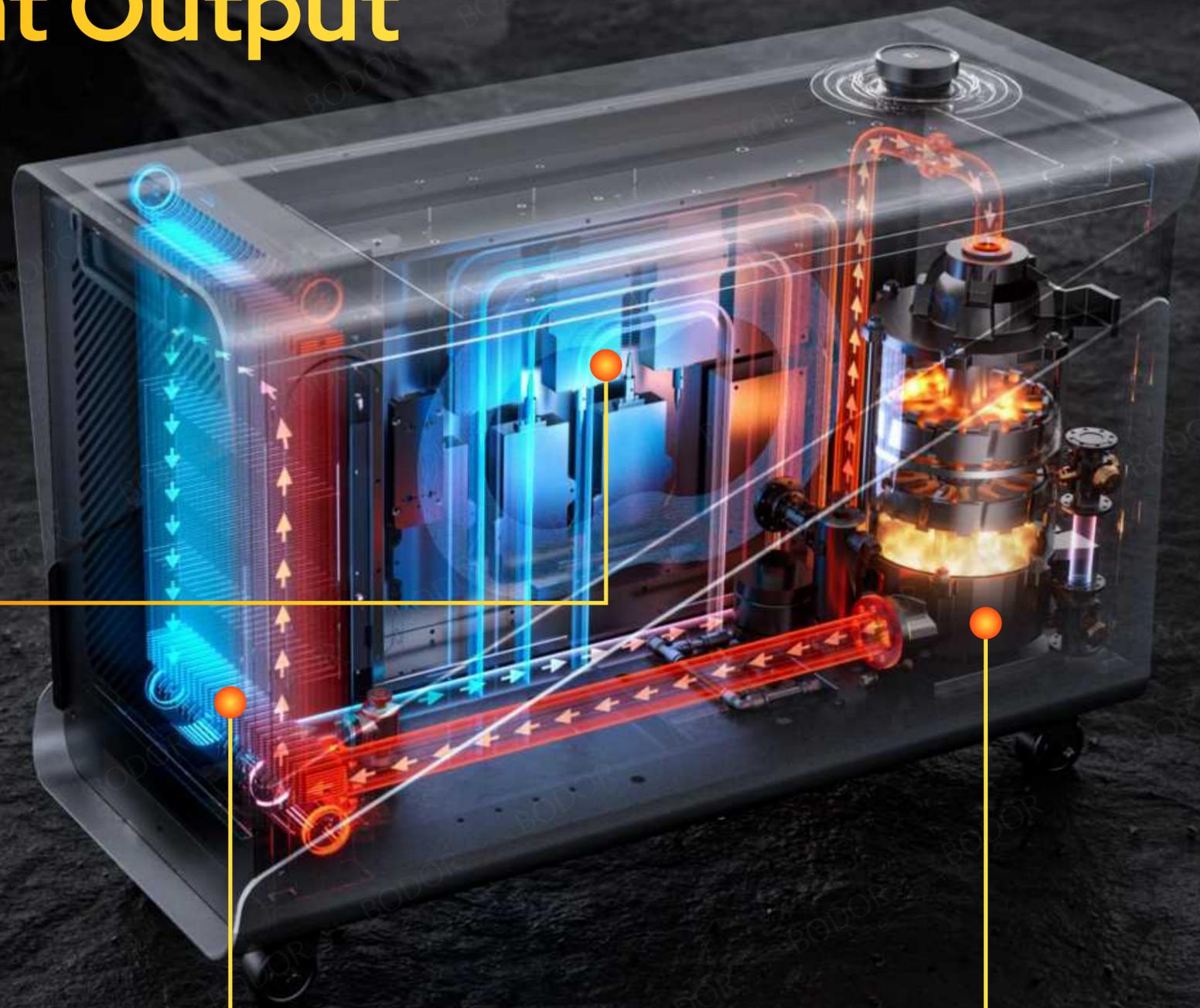


Self-Cooling Technology Continuous Light Output

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 m² 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.





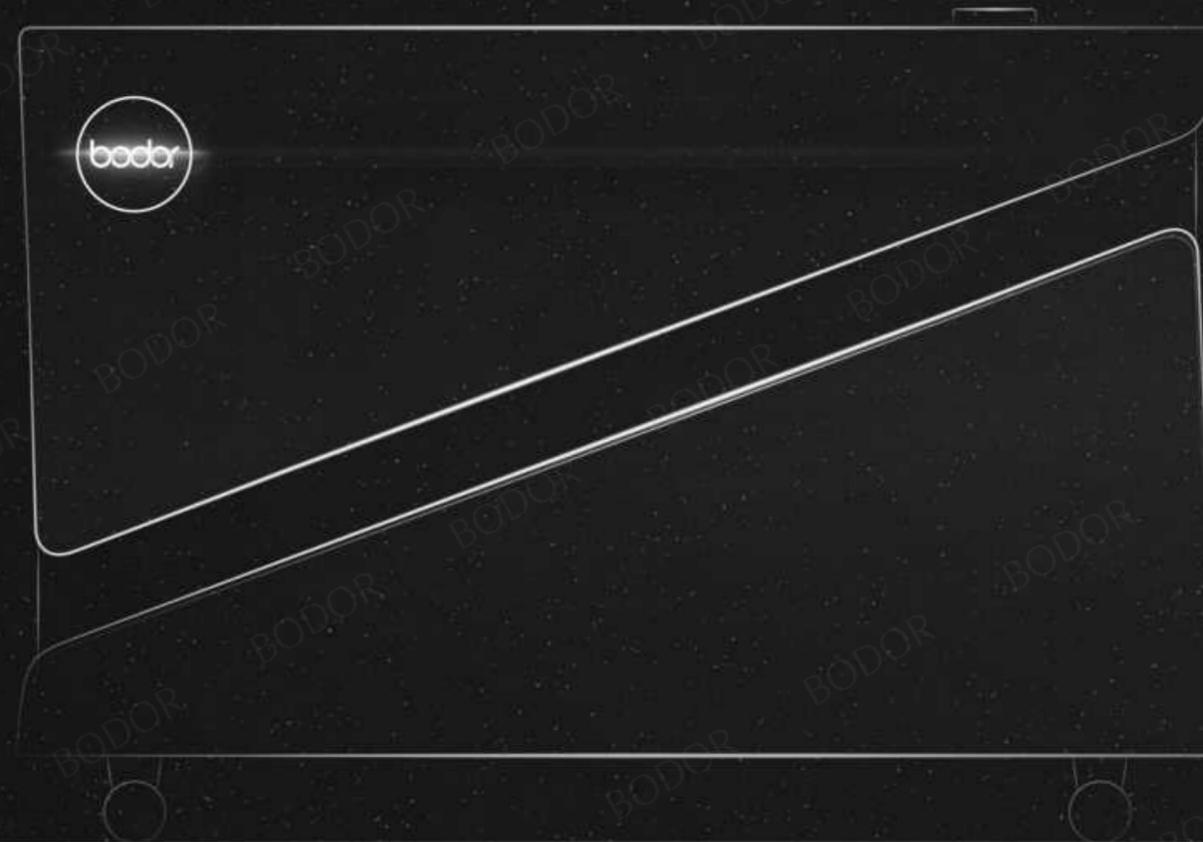
Welder Pro Parameters

Pro 1500

Output Power	1500W
Length of Optical Fiber Cable	10m±0.5m
Cooling Method	Self-Cooling
Constant Power Continuous Light Output	<input checked="" type="checkbox"/>
Operating Ambient Temperature Range	-20°C to 60°C
Weight	CE : 82kg GB : 65kg
Dimensions	850mm×420mm×570mm

Redefining Self-Cooling Revolutionizing Handheld Welder

24/7 Stable Operation Self-cooling Continuous Light Output



bodor

Dare to dream