3d printer enclosure

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About the 3D printer enclosure rdbox.de/en/

RDBox: A new level of quality in 3D printing

Advantages of the RDBox for 3D FDM Printers:

• Stable Microclimate: Optimal temperature and humidity for materials such as ABS, Nylon, and PLA.

• Higher Print Quality: Reduced warping and cracking.

• Process Stability: Consistent conditions for smooth printing.

• Universal Compatibility: Suitable for most 3D FDM printers.

• Easy Handling: Simple to install and maintain. The RDBox offers professional quality and stability in 3D printing.

The RDBox for 3D FDM printers is an innovative solution to improve the quality and stability of 3D printing. This product ensures an optimal microclimate in the printer's working area, which is especially important when using demanding materials such as ABS, Nylon, or PLA. It significantly enhances the printing process. Briefly about the RDBox Thermobox:

Structure and Materials of the 3D Printer Enclosure:

The RDBox is made of sturdy white acrylic with a wall thickness of 5 mm and is equipped with a transparent acrylic door that provides a comfortable visual access to the printing process. The bottom of the RDBox, reinforced to 10 mm, is additionally equipped with vibration-damping feet, ensuring stability and minimal vibrations. The dimensions of the RDBox vary according to your requirements, ranging from 60 to 90 cm. A vibration-damping concrete slab, covered with leather, not only absorbs vibrations but also gives the product an aesthetic appearance and pleasant tactile properties.

solation and Control of the 3D Printer Enclosure:

The interior of the RDBox is lined with 5 cm thick “Pyramid” type polyurethane foam, which effectively absorbs sound and significantly reduces noise levels during the printing process. Climate control is managed via an LCD display that shows the internal temperature and automatically activates the fans to expel hot air and controls the lighting as needed.

Wireless Technology and Safety for 3D Printer Enclosure:

The RDBox connects via Wi-Fi and Bluetooth, allowing control of the settings through our mobile app or a browser on the local network. Additionally, it is integrated with an MQTT broker, enabling real-time monitoring and control of operational parameters. A built-in smoke detector enhances operational safety.

Ventilation of the 3D Printer Enclosure:

The ventilation system includes HEPA and carbon filters, which purify the air from microparticles and odors.

The RDBox is the ideal choice for those seeking professional print quality with added comfort and style.

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