Product Specifications

SUPERVOLCANO

Dimensions	
Overall Length Assembled	56.5±0.5mm (just block and nozzle)
Overall Length combined with v6	98.3±0.5mm (when combined with v6 heatsink)
Mechanical Specifications	
Maximum nominal volumetric throughput (PLA print test at 220°C)	6600 mm3/min
*results may vary depending on your set-up	
Maximum operation temperature with the sock fitted	260°C
Maximum operation tempera- ture without the sock and a E3D thermistor fitted	285°C
Maximum operation tempera- ture without the sock and a E3D PT100	485°C
Electrical Specifications	
Maximum rated operating tem- perature of the heater	500°C (please be aware that the heater is capable of reaching higher temperatures if used improperly. We highly recommend that you do not exceed the rated temperature of the heater)
Nominal heater power	80W
1aximum current draw with 2V/24V heater variants	8.0A/3.9A
laximum current rating of the nosfet switch	15A
Materials	
Block	Nickel Plated Copper
lozzle	Brass/Nickel PLated Copper/Hardened Steel
ock	'E' Glass Fiber and Silicone Elastomer Rubber
ïxings	Steel
Options	
-ilament size	1.75mm/3.00mm
Nozzle size	0.60/0.80/1.00/1.20/1.40 (mm)
/oltage	12V/24V (All of our 12V heaters must be used with the supplied mosfet switch)

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WHAT'S IN THE BOX



80w Heater Cartridge

Thermistor Extension Cable





Super Volcano Brass Nozzle





This product comes with high powered electronics. The assembly documentation must be followed and can be found at https://e3d-online.dozuki.com/. If you are still unsure on how to implement the system correctly, please contact our customer support team.

80W heaters are used and these will draw a lot of current from your control board. For this reason the 12V heater **cannot** be used without the included **mosfet switch** which will handle the high current draw and prevent your control board heater terminals from melting.

The SuperVolcano sock is made from 'E' glass fibre yarn knitted to form a sleeve and coated with a high grade iron oxide silicone elastomer rubber. When handling this material, **thick protective gloves** must be worn at all times and care must be taken to not let any of the fibres contact the skin or face as this can cause irritation. If you need to cut the sleeving, you must also wear a **mask** to prevent inhalation of any particles generated. Once you have mounted the sock you must wipe down any work surfaces to remove any leftover fibres or particles.

Handling of the HotEnd must only be carried out with the printer switched off and the power cord unplugged from the socket. If the printer has been running, wait until the temperature displayed is below 50°C before switching off the machine. If the machine does not have a temperature readout, allow 15min for the block to reach ambient temperature once the machine has been unplugged. The SuperVolcano block will **remain hot longer** than other hotends, allow extra time for the system to cool down. This is due to the higher thermal capacity and larger mass of the heater block when compared to other available hotends.

Do not use the heater provided with any other block than the SuperVolcano block. This block was specifically designed to work with the high temperatures reached by this heater. Using the heater with another block might result in catastrophic failure of the system.

Please note care must be taken when bending the heater cartridge wires and not to bend them to a sharp point as this could snap the wires due to their gauge. Ensure not to fatigue the wires by repeatedly bending them as this will cause failure.







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			NOT TO SCALE							47.5		6.0			
			Dept. Technical reference	These drawings are free hardware: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.	Copyright (C) E3D-Online Ltd (e3d-online.com)	E-HEATER-24V-80W	E-HEATER-12V-80W	SKU							
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