

Revo Six Datasheet



Will - E3D

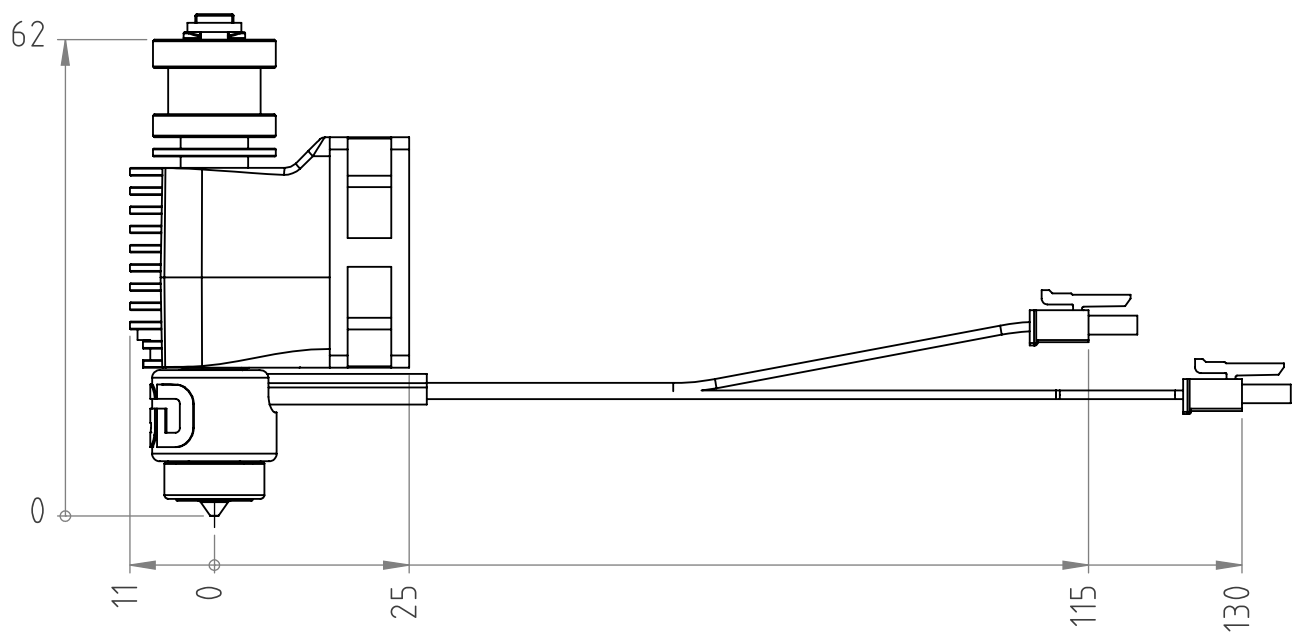
Revo™ Six DATASHEET



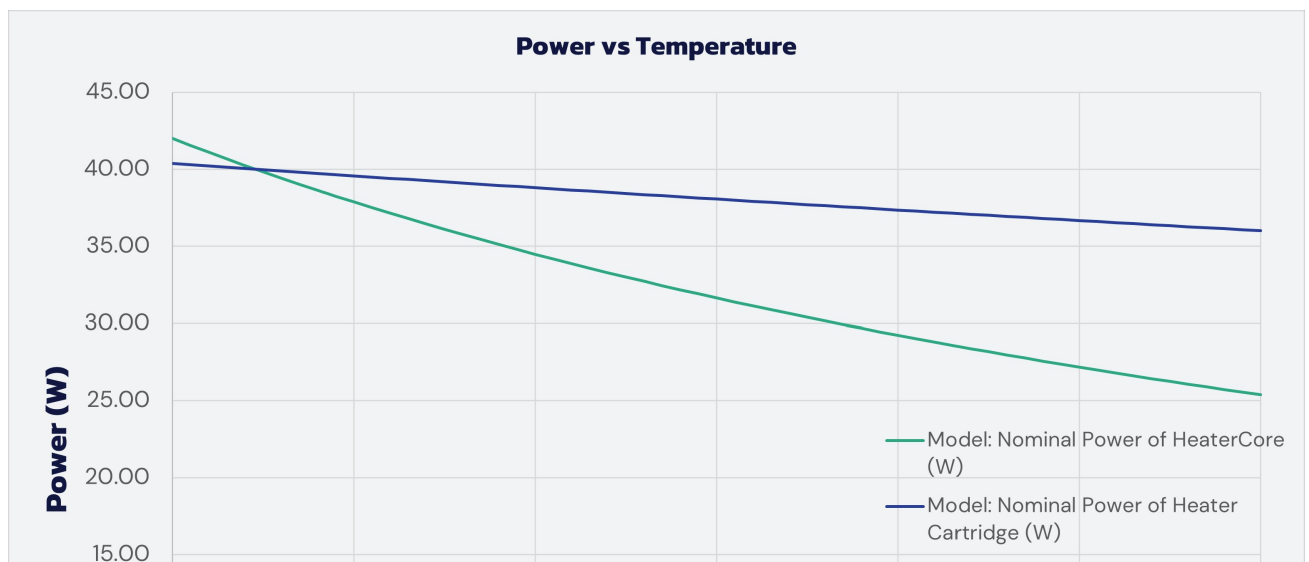
Summary

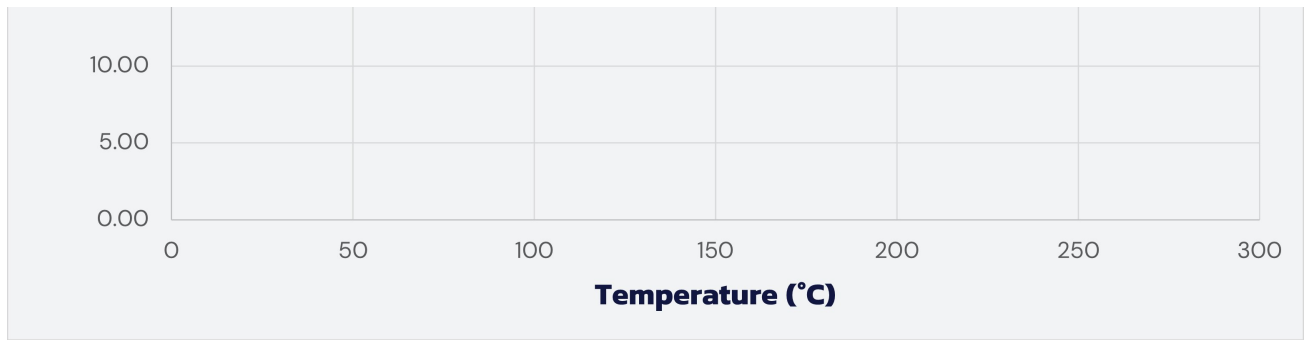
- Max Printing Temperature: 300°C
- Mass: ~53g
- Temperature sensor type: thermistor, Semitec 104NT-4-R025H42G
- Voltage options: 12V or 24V
- Wattage: 40W
- Filament diameter: 1.75mm

Volume and Dimensions



Power vs Temperature





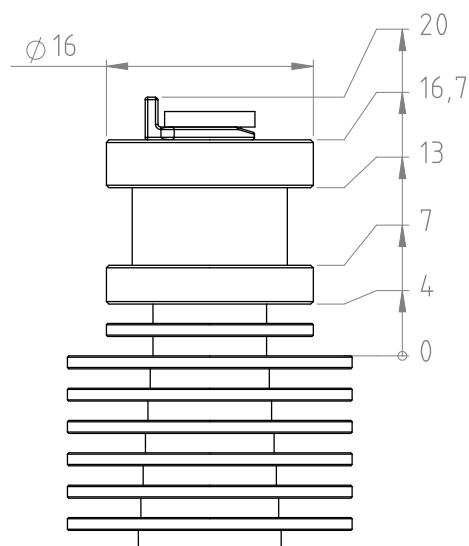
Initial Resistance of a 24V heater at 23°C: 14.4Ω

Temp Coefficient of HeaterCore: 0.002078

Temp Coefficient of Heater Cartridge: 0.002078

Mounting Guidance

Mounting type: E3D Groove Mount



Cable Orientation

Turn Revo HeaterCore anti-clockwise to orient cables. Turning clockwise will cause the spring to disengage.

Assembly

There is no need to hot-tighten the Revo Six assembly. Tools must not be used to fasten the Revo Nozzle to the HeaterCore.

Operational Temperatures

Maximum recommended ambient operating temperature (PLA): 40°C

Lowest temperature rated component: Fan 70°C

Electrical Specification

Fan

12V or 24V

Fan current: 0.1A (12V) and 0.08A (24V)

Heater

12V or 24V, 40W nominal power at ambient

Fan noise: 30 dB(A)

Temperature

Temperature sensor: Semitec 104NT-4-R025H42G

Connections

Fan: Molex SL, 2 Pin, Unpolarised

Heater: Molex Micro-Fit 3.0, 2 pin horizontal

Temperature sensor: Molex Micro-Fit 3.0, 2 pin horizontal

Assembly is supplied with 1m cables to connect to mainboard

Materials

Heatsink: Aluminium (black anodised)

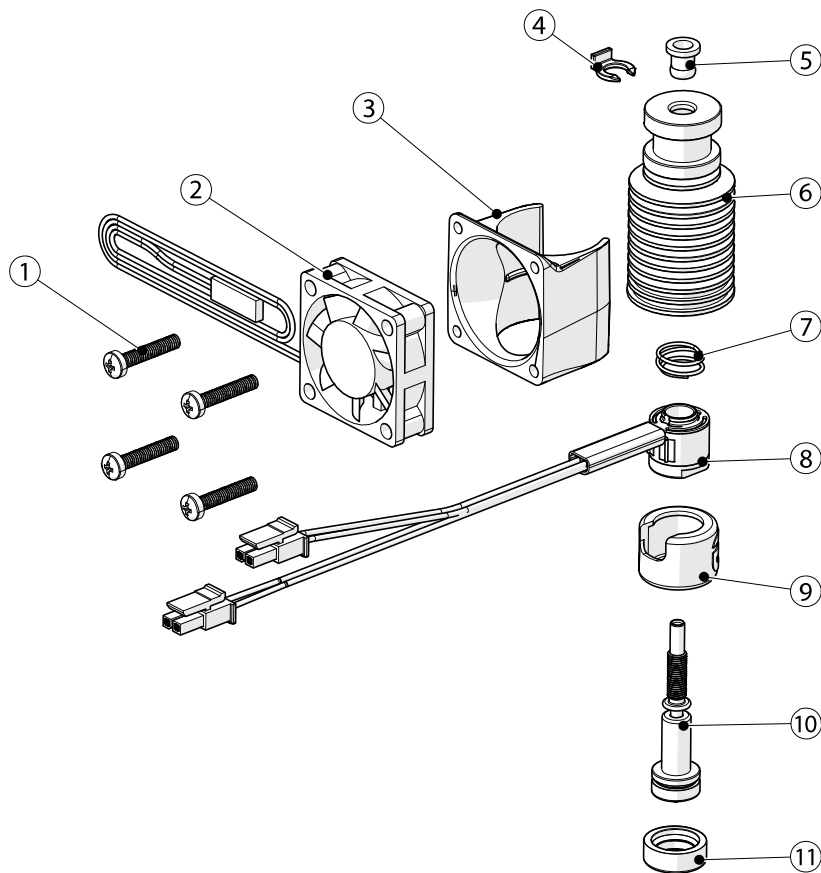
HeaterCore: Alumina, Bronze

Fan Shroud: Polycarbonate

Compliance

Reach
RoHS
WEEE

Exploded View



- 1. 4x Self-Tapping Screws
- 2. 3010 fan
- 3. Fan duct
- 4. Collet clip
- 5. Collet
- 6. Heatsink

- 7. Revo spring
- 8. Revo HeaterCore
- 9. Revo HeaterCore sock
- 10. Revo Nozzle
- 11. Revo Nozzle sock

Changelog

Edition 4

Approved: RY 19/07/22

Published: 19/07/22

Notes: Migrated PDF to Zendesk, Power vs Temperature graph added and minor phrasing changes

Edition 3

Approved: DR 07/01/22

Published: 17/01/22

Notes: Operating temperature updated

Edition 2

Approved: DR 07/12/21

Published: 07/12/21

Notes: Flow rate units changed to mm³/sec

Edition 1

Approved: RY 01/11/21

Published: 03/11/21

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