

## Revo Micro Datasheet



Will - E3D

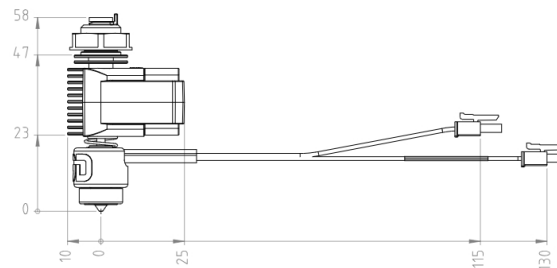
### Revo™ Micro DATASHEET


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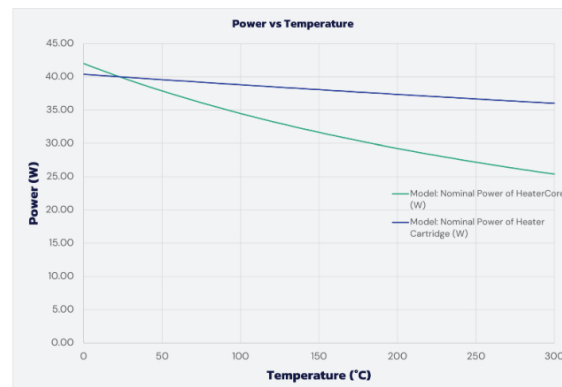
### Summary

- Max Printing Temperature: 300°C
- Mass: ~30g
- Temperature sensor type: thermistor, Semitec 104NT-4-RO25H42G
- 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

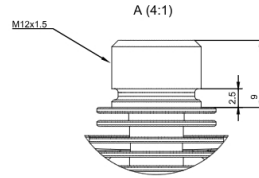
Mounting type: screw thread (M12x1.5). Depth 5mm.

Minimum plate thickness: 1mm

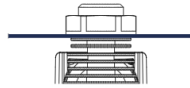
Maximum plate thickness: 5mm



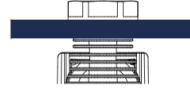
[Figure 2: Mounting interface location]



[Figure 3: Detail View of mounting interface]



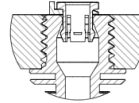
[Figure 4: 1mm plate through-hole mounting]



[Figure 5: 5mm plate through-hole mounting]



[Figure 6: 9mm threaded plate mounting]



[Figure 7: Cross section 9mm threaded plate mounting]

#### 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 Micro 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:

- 5V
- Please use the supplied regulator board. Running directly from 12V or 24V will cause failure
- Fan current: 176mA
- Fan noise: 25.0dB(A)

Heater:

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

Temperature:

- Temperature sensor: Semitec 104NT-4-R025H42G

#### Connections

Fan: Molex Micro-Fit 3.0, 2 pin vertical  
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

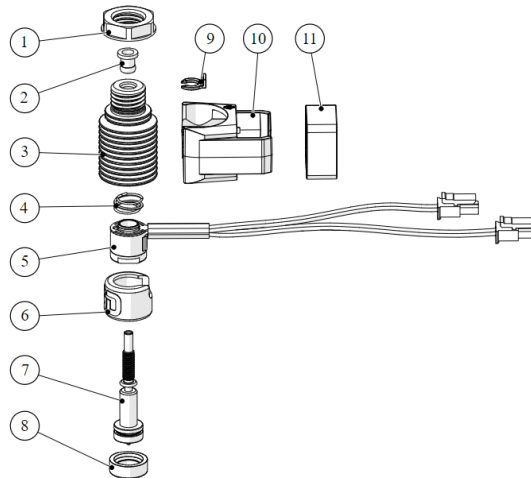
#### Materials

Heatsink: Aluminium (black anodised)  
Nut: Nylon  
HeaterCore: Alumina, Bronze  
Fan shroud: Polycarbonate

#### Compliance

Reach  
RoHS  
WEEE

### Exploded View



- |                         |                         |
|-------------------------|-------------------------|
| 1. M12 x 1.5 nut        | 7. Revo Nozzle          |
| 2. Collet               | 8. Revo Nozzle sock     |
| 3. Revo Micro HeatSink  | 9. Collet clip          |
| 4. Revo Spring          | 10. Revo Micro fan duct |
| 5. Revo HeaterCore      | 11. 20 x 20 x 10 5V fan |
| 6. Revo HeaterCore 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 07/12/21

Published: 07/12/21

Notes: Flow rate units changed to 10mm<sup>3</sup>/sec

#### Edition 2

Approved: RY 13/09/21

Published: 12/10/21

Notes: Thread renamed to Revo Micro

#### Edition 1

Approved: RY 17/09/21

Published: 17/09/21



Have more questions? [Submit a request](#)