

Filament Dryer FD1

Professional filament drying solution for open-materials 3D printers

- Rotary desiccant renewal
- Direct feeding
- Advanced software
- Touchscreen interface
- Compact desktop



Direct feeding



Computer controlled



Filament compatibility up to 3 mm



Rotary desiccant renewal



Fully insulated metal case



Touch screen interface

DRYING TECHNOLOGY

Rotary desiccant system
Advanced software
Multi-step drying procedures

MATERIAL COMPATIBILITY

Drying temperature up to 80 °C
Filament diameter up to 3 mm
Spool size up to $\varnothing 200$ mm x 80 mm

SOFTWARE



Device control and management

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Dryer

Technology: rotary desiccant system
Chamber: enclosed, thermally insulated
Chamber illumination: yes
Body: all-metal construction
Power supply: built in
Spool holder: centre mounted
Control: touch screen display

Operation modes

Offline drying
Direct feeding

Drying programs

Multi-step programs
Custom programs
Preset programs

Power requirements

max. 400 W

Regulatory compliance

CE, WEEE

Safety

Air filtering: HEPA & active carbon filters
Door safety switch: yes
Overheating protection: yes

Material compatibility

Chamber temperature range: 40 - 80 °C*
Max. spool size (diameter x w): Ø200 mm x 80 mm
Max. spool weight: 1.5 kg
Filament diameter: up to 3 mm

Compatibility with 3D printers

In a standalone operation mode, compatible with most open-materials 3D printers using standard filament sizes: 1.75 mm / 2.85 mm / 3.00 mm.

*Check whether the spool material can withstand the set temperature

Dryer size and weight

Dimensions (w x d x h):
240 mm x 430 mm x 490 mm
Weight: 18 kg
Shipping dimensions (w x d x h):
320 mm x 510 mm x 570 mm
Shipping weight: 25 kg

Sensors

Temperature: yes
Humidity: yes
Air pressure: yes

Ambient conditions

Operating ambient temperature: 15-35 °C, 10-90 % RH

Software

Supplied software:
FabControl® (printing, drying profile management software)
FabControl® OS (device control software)
Automation ready: yes (software interface)

Connectivity

USB 2.0 and Ethernet jacks, Wi-Fi