

# Filament Dryer FD1

Professional filament drying solution for open-materials 3D printers



**AUTOMATION  
READY**

## 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



Direct  
feeding



Computer  
controlled



Filament  
compatibility  
up to 3 mm



Rotary desiccant  
renewal



Fully insulated  
metal case



Touch screen  
interface



Printer  
control software



Printer & dryer  
monitoring and control

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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):  $\varnothing$ 200 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:  
cloud-based FabControl® Workflow (printing, drying profile management software)  
FabControl® OS (printer control software)  
Automation ready: yes (software interface)

## Connectivity

USB 2.0 and Ethernet jacks, Wi-Fi