MASS PORTAL®

Filament Dryer FD1

Desktop Rotary Desiccant Dryer for Thermoplastic Filaments

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 ø200 mm x 80 mm

Direct feeding

Computer controlled

Filament compatibility up to ø3 mm

Rotary desiccant renewal

Fully insulated metal case

Touch screen interface

FabControl
Dryer control software

FabCloud™
Printer & dryer monitoring and control

FabCloud™
Material drying presets

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Price (MSRP, excl. VAT) **€ 1499**

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 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 FabCloud™ (printing, drying profile management software)
FabControl® (printer control software)
Automation ready: yes (software interface)

Connectivity
USB 2.0 and Ethernet jacks, Wi-Fi

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Document version: 14.02.2018