

## X1F SINTERING FURNACE

Fully automated, easy to install, safe, and user-friendly



The X1F sintering furnace is fully automated, easy to install, safe, and user-friendly. It operates on 208 to 240 VAC single phase and plugs into a standard NEMA 60A outlet. The furnace can be connected to the internet for remote monitoring, diagnostics, and software updates. The automated sintering cycle is as easy as selecting the material to be sintered on the touch screen. All software required for the sintering operation comes pre-loaded.

### TECHNICAL SPECIFICATIONS

Control	Sintering Gas	Max heat load	Max Temperature	Trays
10-inch touchscreen	stainless steels with argon. Other gases possible	14,000 BTU/h	1,400 C (2,550 F)	Double tray standard, special tray configurations possible
Outside Dimensions	Inside Dimensions	Weight	Power Requirement	Ventilation
78 x 105 x 188 cm (30.5 x 41 x 74)	approx. 245 mm in diameter by 300 mm long; ~10L Usable Space	500 kg (1,100 lbs)	208-240 VAC, 50/60 Hz, single phase 60A.	Single 3/4-inch plastic tubing vented to outside, push-to-connect fitting

*Specifications subject to change without notice*

### SYSTEM BENEFITS

- Advanced sintering furnace has applications across portfolio:
  - Optimized to compliment both Metal Designlab FFF and ExOne's Innovent+® and InnoventPro™ binder jetting systems
  - Furnace technology offers fast cycle time and low operating costs
  - Software provides for integration of furnace / binder jetting platforms
- Powered by a 60A single-phase receptacle and sized to fit through an office door, it is designed from the ground up to be truly office-friendly. The furnace software comes pre-loaded with sintering profiles; just select a material and press start.
- A thick walled retort ensures thermal uniformity over the full temperature range, with a peak temperature of 1400 °C.
- Expansion of R&D technology team
  - Additional innovations expected and already in development