



OptoTech

OCF Premium Plus 3

Cleanroom Furnace for Curing Coatings on Ophthalmic Lenses



The OCF Premium Plus 3 is especially designed for curing coatings on ophthalmic lenses in a continuous cleanroom conveyor furnace after the hardcoating process. The modular system has 3 individually controlled heating zones whose working temperature can be set independently of each other offering maximum process flexibility.



Technical data

	OCF Premium Plus 3
Application	Cleanroom Furnace for Curing Coatings on Ophthalmic Lenses
Connected load	42 kW
Connection Voltage	3/(N) PE AC 400V +/- 10%, 50Hz
Control Accuracy	+/- 3 K
Conveyor Height	920 mm
Heating Power	35.4 kW
Heating Cooling Rate	max. 3.5 K/min
Heating Zones	3
Inlet Outlet Length	Inlet: approx. 170mm Outlet: approx. 225mm
Interior dimensions (WxHxD)	550 x 600 x 2550 mm
Onsite Protection	63 A
Working Temperature	130°C (depending on curing temperature of the coating)
Dimensions	Width: 1300 mm, Height: 3320 mm, Depth: 1750 mm; without electrical cabinet
Weight (approx.)	1400 Kg; without electrical cabinet
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.





Highlights

- The OCF Premium Plus 3 is especially designed for curing coatings on ophthalmic lenses in a continuous cleanroom conveyor furnace after the hardcoating process.
- The modular system has 3 individually controlled heating zones whose working temperature can be set independently of each other offering maximum process flexibility.
- Continuous furnace designed for curing of coatings on ophthalmic lenses.
- For lens trays that can be stacked on up to 3 layers. There is space for a maximum of 12 trays in a row in the furnace. A maximum of 36 trays can thus be processed at once in the continuous furnace.
- The continuous furnace meets the requirements according to class ISO 6 (according to DIN EN ISO 14644-1) with built-in HEPA circulating air filters.
- The conveying speed can be set variably (10mm/min to 50 mm/min), as can the working temperature (up to 130° C).
- The modular continuous furnace consists 3 modules, divided into 3 regulated heating zones (inlet, outlet and middle module. Each with heating and control zone).
- Modular design of the system which allows different furnace setups (number of modules / conveyor length).
- Equipped with a state-of-the-art PLC controller with 7" touch panel. Siemens Simatic S7-1513 with colored touch panel available on option.
- Construction and equipment of the cleanroom furnace are either CE or UL compliant

System advantages

- Continuous workflow in small batches
- Process time savings and energy savings because of missing heat up and cool down periods
- The working temperature can be set individually in each zone which allows to run defined temperature profiles
- High consistency of the temperature (+/- 3K) resulting in stable coating quality
- Higher yield because of cleanroom condition according to ISO 6
- Low temperature emission into the environment due to highest isolation standard
- Easy maintenance and accessibility due to maintenance flaps on both sides
- Scalable productivity due to stackable lens trays (1 to max. 3 trays stacked)
- Various applications and processes possible

Performance characteristics

Controller and Software:

- Built-in controller: SIMPAC controller with colored 7" touch panel. Siemens Simatic S7-1513 with colored touch panel available on option.
- Displayed data: e.g. working room temperature of each heating zone (setpoint and actual value), conveying speed, program name, program status and more.
- Programming: A total of up to 100 different programs can be saved
- The controller is housed in the separately placed control cabinet
- Control cabinet dimensions: 1200x400x2200mm (WxDxH)
- Control cabinet weight approx. 150kg