

Cole-Parmer®

FD 600

Product  
Highlights



# FD 600

## Product Highlights

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### Capacity

This system offers a well-balanced size-capacity ratio, providing efficient performance within a compact footprint. The ice condenser features an 11-liter chamber designed to accommodate typical laboratory workloads. With an ice-holding capacity of up to 8 kg, the condenser can remove as much as 4 kg of vapor within a 24 hours.

### Flexibility

The system offers exceptional configuration flexibility, with a choice of 1, 3, 5, 7, or 9 heated shelves to suit a wide range of sample formats. Shelf spacing ranges from 19 mm up to 204 mm, allowing easy accommodation of both small-format containers and larger vessels. All shelf stacks feature a true plug-and-play design, enabling rapid interchange of configurations without tools or system downtime.



### Compact

The Cole-Parmer® FD 600 is engineered as a true benchtop unit, delivering high performance within a space-efficient footprint. With overall dimensions of 770 mm (D) × 748 mm (W) × 507 mm (H), the system fits comfortably on most standard laboratory benches, making it well-suited for facilities where workspace is at a premium.

### Programmable Shelves

The wide operating temperature range of  $-40\text{ }^{\circ}\text{C}$  to  $+60\text{ }^{\circ}\text{C}$  provides precise control through every stage of the lyophilization process. Samples can be frozen directly on the shelf, then transitioned smoothly into programmable heating profiles for both primary and secondary drying. This flexibility ensures consistent product quality and tightly regulated thermal conditions from start to finish.

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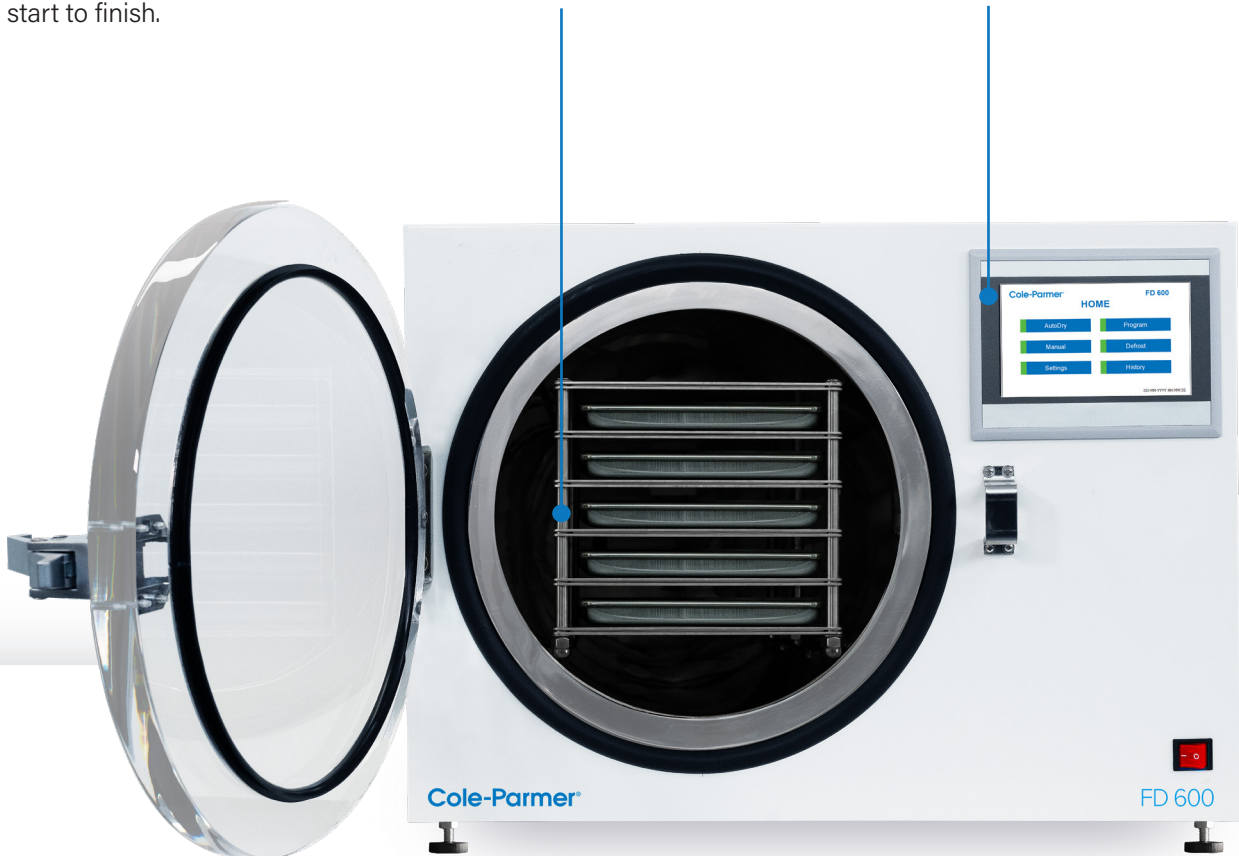
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## Powerful Controller

The system is equipped with a powerful, full-color touchscreen controller designed for intuitive operation and precise process management. Users can create and store programmable recipes with up to 16 steps, allowing detailed control of each phase of the workflow. A built-in USB interface enables easy data transfer and convenient export of process parameters and records.



### Efficiency

The FD 600 Fixed 1 Heated Shelf Stack is purpose-built for drying tall containers such as large vessels or centrifuge tubes in racks. Its vertical clearance allows optimal heat transfer and uniform drying of oversized or elongated sample formats. Custom shelf stacks are available.



### Powerful, Pure & Quiet

The Hi-Scroll 6 Vacuum Pump delivers strong, reliable performance while maintaining exceptionally quiet and clean operation. Its oil-free scroll ensures a contamination-free environment, reducing maintenance demands. Combining high efficiency and low cost of ownership, the pump offers outstanding value.

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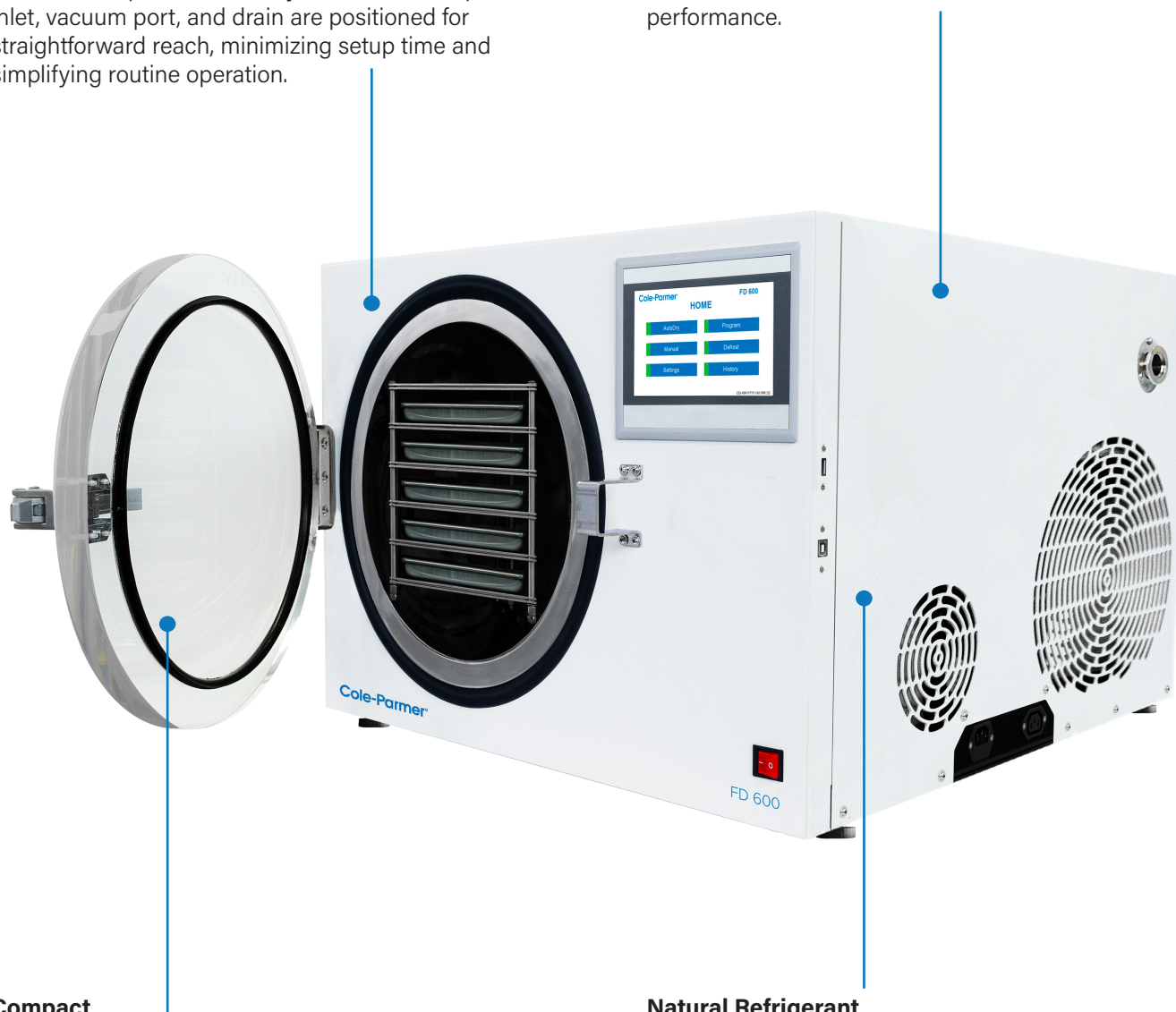
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### Ergonomic

The system is designed with user convenience in mind, featuring easy access to all essential connections and controls. The power switch, system interfaces, power inlet, vacuum port, and drain are positioned for straightforward reach, minimizing setup time and simplifying routine operation.

### Quality

The system is built to deliver long-term reliability, incorporating high-grade refrigeration components and robust electronic assemblies chosen for consistent performance.



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### Natural Refrigerant

The system utilizes R290 as its natural refrigerant, offering an environmentally responsible solution with an exceptionally low global warming potential and a minimal overall carbon footprint. Unlike legacy CFC and HCFC refrigerants, R290 is fully compliant with modern sustainability standards and ensures long-term availability without regulatory phase-out concerns. Its straightforward design also supports easy, cost-effective servicing over the lifetime of the equipment.