

VERTICAL LAMINAR FLOW CABINET AND PCR

LFC800 X Models

Features

- Vertical Laminar Flow Cabinet designed to provide complete protection for the work material. Equipped with a centrifugal motor protected against overloads and exceptionally quiet.
- The LFC800 series is available in two models: Automatic and Manual.
- The air is first pre-filtered through a G3 pre-filter and then filtered by an H14 HEPA absolute filter (99.995% efficiency at MPPS, EN 1822 standard) and delivered to the work area at a velocity of $0.45 \text{ m/s} \pm 0.1$. The air is exhausted to the outside through the front.
- The work area maintains laminar flow conditions with ISO 5 air purity (according to ISO 14644) or Class 100 (according to Fed. Std. 209).
- Work surface constructed of AISI 304 stainless steel.
- The LFC800A model is microprocessor-controlled with an upgradeable FLASH memory and an external display for easy viewing of the cabinet's control parameters (speeds, flow rates, and plenum pressure).
- The cabinet is equipped with an easy-to-use touch panel for controlling white/ultraviolet lighting, an internal power outlet, and parameters.
- Automatic electronic motor speed control system to adapt to progressive filter saturation and safety conditions.
- LED and ultraviolet lighting.
- Operating voltage 220 V 50 Hz. Maximum current consumption 2 A. (approx. 500 W)
- The cabinet comes standard with a UV light and a 220-volt electrical outlet.

Optional Accessories:

- Vacuum and gas inlet
- Unit support table
- 3 UV tubes for PCR



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Technical Specifications

MODEL	LFC800 A	LFC800 M
Working Area (mm)	815 x 720 x 725 (W x D x H)	
External dimensions (mm)	815 x 720 x 1100 (W x D x H) 815 x 720 x 1956 with support table	
Weight (kg)	200	
Standard support table height	856 mm	
Material	Work surface made of AISI 304 stainless steel	
Control system	Microprocessor with Flash memory	Manual adjustment
Display	LCD display	----
Main filter	Hepa H14 absolute filter with 99.995% mpps efficiency according to EN 1822	
Laminar flow	0.35–0.55 m/s	
Air purity classification	Class 100 (ISO 5)	
Front Panel	Max. Opening 500 mm	
Sound level	≤ 60 dB	
Vibration	≤2 µm rms at a frequency of 10 Hz to 10 kHz	
White lighting	1 x 30 W LED ≥ 680 lux	
Ultraviolet	1 x 30 W (Optional PCR + 2 x 30 W)	
Power	220 V, 50/60 Hz	
Power consumption	650 W	

Ordering Information

Code	Description
00-LFC800M	VERTICAL Laminar Flow Cabinet (PCR) MANUAL MOD LFC800M
00-LFC800A	VERTICAL Laminar Flow Cabinet (PCR) AUTOMATIC MOD LFC800A
52-MSOPFAGV80-FORM	30 mm PAINTED TUBE FRAME TABLE FOR LFC800 800 x 710 x 856 mm (width x depth x height)

"All information, specifications, dimensions, and electrical data shown in TDI's commercial documents and data sheets are for guidance only and are not binding; therefore, they are subject to change according to each customer's needs and provided that applicable regulations permit it."

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