

CORE SYSTEMS

FL-1000

FLEC Air Control 1000



Overview

The FL-1000 FLEC Air Control regulates the flow, humidity and purity of air supplied to the FLEC Cell. It requires an external supply of clean, dry air (synthetic air) at 2-10 bar (28-140 psig) and pure water for the humidifier. The unit mixes dry and humidified air to control relative humidity, while a high-capacity charcoal filter supports clean-air delivery. Built-in valves allow the individual and mixed flows to be checked with calibrated reference instruments.

Specifications and system requirements

Complete technical data and supply requirements are provided on page 2.

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FLEC Air Control 1000 - specifications

Specifications

Product code	FL-1000
Weight	9.0 kg
Dimensions (H × W × D)	560 × 310 × 225 mm
Materials in contact with humid air	Acid-resisting stainless steel, Teflon (PFA) and glass
Connection to air supply	1/8" Swagelok, 1/8" copper tubing
Connection to FLEC Cell	1/4" Swagelok, 1/4" PFA tubing
Pressure regulator	0 to max. 7 bar (100 PSI)
Flow range per channel	0-250 ml/min
Total flow range	0-500 ml/min
Flow meters	0-250 ml/min
Flow controllers	0-535 ml/min
Relative humidity	0-90% RH
Humidifier / condenser	Glass; 400 ml and 75 ml respectively
Safety	A safety valve opens if the pressure in the humidifier exceeds 1 bar / 14 PSI. Reseals at 0 bar.
Filter	Replaceable assembly packed with high-capacity activated charcoal

System requirements

Air supply	Clean and dry air (synthetic air), at 2-10 bar (28-140 psig)
Water	Pure water is required for the humidifier

Select airflow and sampling conditions according to the applicable method and your material. Contact CHEMATEC for configuration guidance.

[Product page and quotation enquiry](#)