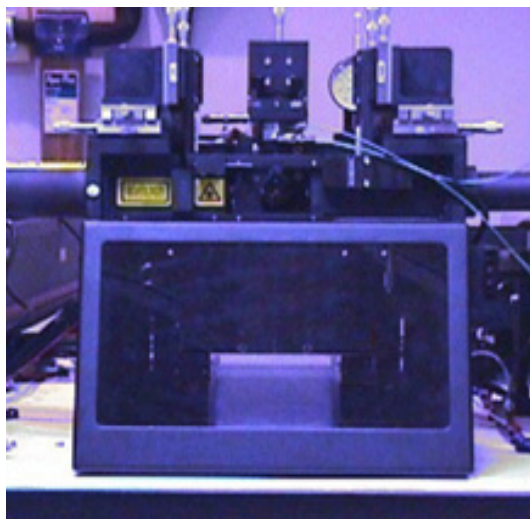




Better Tools. Good Science.



The Aerosol Evacuation System evacuates microdroplets and airborne particulates generated in the sort chamber during the normal jet-in-air operation of the MoFlo cytometer. A simple remote unit controls the system.

OPERATOR SAFETY

The Aerosol Evacuation System was designed with operator safety in mind. It provides complete exchange of the air inside the sort chamber, filtering micro-droplets and airborne particulates with a replaceable ULPA filter. The system has an in-line evacuation motor that operates in two vacuum modes. These dual motor speeds provide complete evacuation of the sort chamber at the rate of 5-7 complete air exchanges per minute in low-speed mode, and 13-17 complete air exchanges per minute in high-speed mode. The Aerosol Evacuation System is operated in low-speed mode during the sort process. This airflow rate in the sort chamber does not interfere with sorting, drop delay determination or droplet deposition. High-speed mode is used after completing the sort, to quickly exchange air inside the sort chamber prior to opening the aerosol containment door.

EASE OF USE

The Aerosol Evacuation System is controlled by a magnetically mountable remote unit, which may be positioned by the user for comfort and convenience. This remote unit controls vacuum power (high and low motor speeds) and displays fault conditions, such as blocked intake or a clogged filter. An audible alarm sounds upon detection of a fault condition.

FUTURE AUTOMATION

The Aerosol Evacuation System is another module in Cytomation's continuing plan to automate the MoFlo's sort process. Cytomation is unique in employing microprocessor-control for these modules. These modules are programmable and will be able to communicate with each other to coordinate the sort process, reducing operator exposure to hazardous samples. Cytomation is designing in the power and flexibility necessary for a fully integrated, automated and safe sort.

AEROSOL EVACUATION TECHNICAL SPECIFICATIONS

Aerosol Evacuation System includes:	Vacuum unit Vacuum hose Remote control unit Cables User Guide Modified Illumination Table panel
Evacuation Speed (Low):	5-7 cubic feet/minute
Evacuation Speed (High):	13-17 cubic feet/minute
ULPA Filter Pore Size:	0.12 µm
Filter Efficiency:	99.9% removal of airborne particles 0.1 µm in diameter or larger
Hose Inlet Filter Pore Size:	0.06 inches
Vacuum Unit Size:	30.5 cm wide x 30 cm tall x 48.3 cm deep
Vacuum Unit Weight:	19 kg
Hose Size:	609.4 cm (20 feet) long and 3.175 cm (1.25 inches) in diameter
Power Requirements:	110Vac/60Hz or 220Vac/50 Hz
Noise Level:	<62 dBa (low speed), <72 dBa (high speed) (measured at the Illumination Table with the vacuum 6 feet away)
Operating Temperature:	10-30 degrees Celsius

Cytomation, Inc. is a privately held bio-technical instrumentation corporation specializing in high-performance, high-speed flow cytometer analyzers, sorters and upgrades. Our mission is to design, produce, and service the finest flow cytometers and cell sorters in the world — unparalleled in performance, accuracy, versatility, reliability and speed. MoFlo, our premier flow cytometer, is a modular system that is easily upgraded whenever requirements change or new modules become available.

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