

## Rotating MOUDI™

### Models 120R, 122R, 125R

MOUDI™-II and NanoMOUDI™-II are second generation impactors. These impactors are noted for their superior aerodynamic design, sharp cut-size, and low particle loss characteristics. Up to 6,000 precision micro-orifice nozzles are used to reduce pressure drop, jet velocity, particle bounce, and re-entrainment.

MOUDI™-II allow users to sample uniformly for days thanks to the reliable internal impaction plate rotation. Sampling flow rates are 30 L/min for the models 120 and 122, and 10 L/min for the model 125. The nominal cut-size aerodynamic diameter range is 10 nm to 10 µm. MOUDI-II can be operated remotely through an Ethernet connection to the onboard PLC.

Model	Stages	Nominal Cut Points (µm)	Flow Rate (L/min)	Pressure Drop (kPa)
120R	10	10, 5.6, 3.2, 1.8, 1.0, 0.56, 0.32, 0.18, 0.10, and 0.056	30	40
122R	13	10, 5.6, 3.2, 1.8, 1.0, 0.56, 0.32, 0.18, 0.10, 0.056, 0.032, 0.018 and 0.010	30	90
125R	13	10, 5.6, 3.2, 1.8, 1.0, 0.56, 0.32, 0.18, 0.10, 0.056, 0.032, 0.018 and 0.010	10	90

## High Flow Impactors

### Models 128, 129, 130, 131

High Flow Impactors (HFI) are ideal for sampling particles at low concentrations, for obtaining samples in short sampling intervals, or for collecting more mass per stage as compared to more conventional medium flow rate impactors. HFIs are available with 3, 4, 5 or 6 stages in the 0.25 to 10 µm aerodynamic size range. HFIs sample at a high flow rate with a low flow resistance. Particle deposits are collected on 75-mm substrates which can be analyzed for mass, or via chemical analysis or microscopy.

Model	Stages	Nominal Cut Points (µm)	Flow Rate (L/min)	Pressure Drop (kPa)
128	3	10, 2.5 and 1.0	100	0.6
129	4	10, 2.5, 1.0, and 0.25	100	5
130A	5	2.5, 1.4, 0.77, 0.44 and 0.25	100	6
130B	5	2.5, 1.4, 1.0, 0.44 and 0.25	100	6
131A	6	10, 2.5, 1.4, 0.77, 0.44 and 0.25	100	6
131B	6	10, 2.5, 1.4, 1.0, 0.44 and 0.25	100	6



120R MOUDI™ shown

#### Accessories (available separately)

Specify	Description
0100-47-AF	Al Foil Substrates, 47 mm, Pkg. 300
0130-75-AF	Al Foil Substrates, 75 mm, Pkg. 300
0122-90-AF	Al Foil Substrates, 90mm, Pkg. 100
0001-01-9953	Glass Fiber Filters, 47mm, Pkg. 100
0130-01-5010	Glass Fiber Filters, 90mm, Pkg. 100
0001-01-5024	Quartz Fiber Filters, 47mm, Pkg. 100
0100-01-0100	Silicone Impactor Surface Spray
0100-96-0558	Silicone Lubricating Grease, 5.3 oz.
0120-98-1051	Vacuum Pump, 120R, 110V
0120-98-1050	Vacuum Pump, 120R, 220V
0122-01-2011	Vacuum Pump, 122R, 230V, US
0122-01-2016	Vacuum Pump, 122R, 230V, EU
0125-98-0100	Vacuum Pump, 125R, 110V
0125-98-0101	Vacuum Pump, 125R, 220V



MOUDI™ 130A shown

#### Accessories (available separately)

Specify	Description
0130-01-1051	Vacuum Pump, 128–131, 110V
0130-01-1050	Vacuum Pump, 128–131, 220V, EU
0130-01-1050	Vacuum Pump, 128–131, 220V, UK
0130-75-AF	Al Foil Substrates, 75 mm, Pkg. 300
0130-01-5010	Glass Fiber Filters, 90 mm, Pkg. 100
0100-01-0100	Silicone Impactor Surface Spray
0100-96-0558	Silicone Lubricating Grease, 5.3 oz