



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076

Reference No. 204 PR No. 1000020158 (Rfx No. 6100000819)

Detailed Technical Specifications for MiniVol Air Sampler:

Pump:

1. Rated for >8,000 hours continuous operation
2. Flow range 0-10 LPM

Physical:

1. Should have weatherproof sampler case
2. Needs to be portable; weight < 5 kg when fully configured
3. Weight: < 15 kg with all accessories

Timer:

1. Programmable 7-day timer with battery backup

Pre-separator/Cassette Filter Holder Assembly:

1. Non-directional inlet design; should be easily removable for cleaning
2. Should have filter holder that can fit Standard 47mm filter substrates
3. Sharp cut-point cyclone/impactor for 10 and 2.5 micro meter at a flow rate < 10 L/min sampling rate

Electronics:

1. Constant flow control circuit
2. AC or DC operation
3. Variable flow adjustment
4. Elapsed time totalizer
5. Low battery indicator and shut-off
6. Low flow rate indicator and shutoff

Battery Pack:

1. Lithium Ion batteries along with 1.2 A or more external battery charger
2. More than 24 hours' continuous operation on battery
3. Full recharge of battery in < 8 hours

Warranty and Service:

1. **Vendor should provide warranty for at least 3 years.**