

# **Respirable Dust Sampler MODEL AQS 136 DxNL**



Automatic Flow Controller and auto shut off, In previous model of particulate samplers in use in the country, the sampling rate varies with dust loading on the filter and fluctuates with changes in the mains voltage the AQS 136 DxNL uses and electronic flow controller to automatically maintain constant sampling rate through the filter/cyclone assembly the size fractionating in cyclone of the AQS 136 DxNL ,thus operate rates close to its designed separation velocity resulting in a sharper cut off for particulates larger than 10 microns when the dust load of filter becomes excessive and exceeds the capacity of the blower the electronic circuits provided in the flow controller automatically shut down the machine.

In **AQS 136 DxNL** ambient air is sucked using low maintenance brushless and noiseless blower through corrosion free aluminum modular pipe and pass thorough a sharp cutoff cyclone which is based on the concept given by NEERI which divides the particulate matters in two fractions one below 10 microns and another above 10 microns. The Respirable dust (below 10 microns) directly gets deposited on filter paper and the coarser dust (above 10 microns) collected in the cup fitted under the cyclone. A time totalizer records the total running time of the blower. A programmable digital timer makes the instrument to stop and start as per requirements set in the timer. The manometric systems indicates the rate of flow in cubic meter per minute which can be read directly on calibrated scale. Universal RDS has all branded components and suitable for outdoor field use.

In **AQS 136 DxNL** regenerative blower is fitted where impeller is directly mounted on the induction motor. Due to use of induction motor stabilizer is not required. Induction motor has capability to maintain its rpm automatically of wide range of input voltage 190-250v. Due to very low noise it can be operated in residential and sensitive areas without any disturbances. Noiseless blower does not require regular maintenance.

## **SPECIFICATIONS :**

<b>Ref:</b>	Meet requirements given in BIS 5182 (Part -23) 2006
<b>Flow Rate :</b>	<b>0.9 – 1.4 m<sup>3</sup> /min free flow with Automatic electronic feedback flow controller provided for maintaining constant flow.</b>
<b>Suction Pump</b>	Low maintenance Brushless & Noiseless Regenerative Blower where impellor is directly mounted on motor.
<b>Sampling Time :</b>	Can be operated upto 32 hours on continuous basis
<b>Sampling Time Record :</b>	0 to 9999.99 hrs. Recorded on a Time Totalizer.
<b>Particle Size</b>	Separate provision for collection of Respirable (PM10) and Non-respirable (less than and greater than 10 microns) size particles. Cyclone efficiency curve is provided.
<b>Body</b>	The body of RDS is corrosion free robust enough to withstand impacts and vibration in transportation it is made of heavy Aluminium sheet.
<b>Power requirement :</b>	Nominal 220 V, Single Phase, 50Hz AC mains supply.
<b>Size &amp; Weight :</b>	430 x 320 x 900mm., (Approx) 46Kg
<b>Connectivity</b>	Gaseous Pollutants Sampling Attachment (AQS 136 ) in field.

**WARRANTY ALL UNIVERSAL SCIENTIFIC INSTRUMENTS PRODUCTS CARRY ONE YEAR WARRANTY**



For pricing information and queries contact:

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