EPA Approved
$PM_{2.5}$ Very Sharp Cut Cyclones

Applications:

$PM_{2.5}$ Reference Method Sampling
$PM_{2.5}$ Chemical Speciation Sampling
Continuous Ambient $PM_{2.5}$ Monitoring
Direct Replacement for WINS Impactor

Features:

EPA Equivalent Method for FRM $PM_{2.5}$ Sampling
(EQPM-0202-142, -143, -144, -145)
Compliance to 40CFR Parts 53 & 58
Dry Sampling Technique (No Oil Required)
90 Day Maintenance Interval
Simple Field Cleaning Procedure
Inert Anodize Aluminum Construction
Models For All Commercial FRM Samplers
Excellent Correlation to the WINS Penetration Curve

The BGI Very Sharp Cut Cyclone (VSCC) is designed to replace the WINS impactor utilized within $PM_{2.5}$ Federal Reference Method (FRM) sampling systems.

Models of the VSCC are manufactured by BGI for all designated samplers. Upgrades may be made to instruments manufactured by BGI, Rupprecht & Patashnick (R&P), Thermo-Andersen, as well as several others. Moreover, the VSCC is exceptionally suited for continuous $PM_{2.5}$ monitoring systems such as the TEOM and the Beta Attenuation Monitor (BAM).

These are the first and only $PM_{2.5}$ cyclone separators tested and approved by the US-EPA.

Integration of the VSCC requires no tools or modifications to existing equipment.

The VSCC was developed by BGI in response to a need for dry (oil-free) $PM_{2.5}$ separation, longer maintenance intervals and correlation to the WINS penetration curve.

The VSCC provides a maintenance interval of 90 days, operating at 16.7lpm. Most significantly, it eliminates speciation concerns and overloading by eliminating the use of a greased impactor.

BGI manufactures a comprehensive line of particulate sampling systems and accessories. Their product line includes the only truly portable reference method samplers for PM_{10} and $PM_{2.5}$, personal sampling pumps, size selective separators and audit devices for flow, temperature and pressure. All BGI products are manufactured in accordance with ISO9001 quality standards.

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