

PQ200 – U.S. EPA Federal Reference Method with Very Sharp Cut Cyclone or EPA WINS Impactor for PM2.5

The PQ200 and PQ200A Provide EPA Reference and Audit Method Data for PM10 and PM2.5



PQ 200 Ambient PM10 & PM2.5 Sampler
With Solar Panel



PQ1

EPA Designated Inlet and
minIPM High Altitude Inlet

The BGI PQ200-FRM Sampler incorporates BGI's pioneering technology to meet the requirements for ambient particulate sampling dictated by the U.S. Environmental Protection Agency. This includes the design of novel PM10, PM2.5 and PM1 Inlets, Volumetric sample flow rate control, data logging and software for report and data processing. The sampler is based upon the BGI PQ family of ambient particulate samplers and has demonstrated its use since 1997 in a multitude of domestic and international sampling scenarios. Most recently the introduction of the BGI *minIPM* Inlet, the PQ200 can be operated at sampling sites as high as 15,000 feet (4572meters) elevation.

The PQ200 – FRM Sampler meets and exceeds the US EPA requirements for manual ambient particulate sampling according to 40CFR Part53. BGI cooperated with the EPA in 1996 to provide design and parts of the PQ100 sampler that later became design and performance specifications for PM2.5 FRM sampling. BGI was pleased to provide the following:

- Ambient Temperature and Filter Temperature Testing
- PM10 Inlet Design
- Prototyped the EPA PM2.5 WINS Impactor
- New EPA Class II Equivalent Method Alternative to the WINS VSCC-Very Sharp Cut Cyclone



BGI

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Applications

- Ambient Particulate Reference Method Sampling
- PM2.5 FRM with Solar Approval
- (RFPS-1298-125) PM10 FRM
- (RFPS-0498-116) PM2.5 Audit FRM
- (RFPS-0202-116) PM2.5 VSCC
- (RFPS-1208-173) PM Coarse
- Fence Line Monitoring
- Remediation Projects
- Remote Site Monitoring
- High Altitude Sampling with *miniPM* Inlet

Features

- Volumetric Flow Control using ambient temperature and barometric pressure compensated mass flow sensor
- BGI's own Dual Diaphragm Vacuum Pump
- Portable and only EPA designated sampler with solar augmentation and Audit Sampler approval
- Operates up to 30 hours from its internal 12Volt DC Battery. AC power outages do not effect the sample event, true continuous sampling with no interruptions.
- Can be configured for PM10, PM2.5, PM1 and TSP
- PQ100 Base can be used as an IAQ and Special
- Study Flow Controlled Vacuum Pump

Ordering Information

Part#	Description
PQVSCC	PM2.5 FRM Fine Particulate Sampler, With PM2.5 Cyclone, 120/240 Volt
PQVSCCSP	Same as PQVSCC (above) with Spanish Display Screen
PQAUDIT	EPA FRM PM2.5 Audit version of PQ200
X015	Advanced pump rebuild kit: valves, diaphragms, "O" rings and bearing
F212	Filter cassette, 46.2 mm
F215	Filter cassette with F214 Transport Carrier
F214	Cassette Transport Carrier (nickel-plated aluminum)
WE10	WINS Eliminator to convert PM2.5 Sampler to PM10 FRM
VSCCB	PM2.5 Cyclone to convert PQ200 from a PM10 Sampler to PM2.5 FRM
5011	miniPM Inlet Complete for TSP, PM1.0, PM2.5, PM10 for High Altitude Sampling

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