

PQ100 – U.S. EPA FRM**Model PQ167R Portable Ambient Particulate Sampler**

Provides EPA Reference Method Data for PM10. Can be configured for TSP and PM2.5

PQ 100 Ambient PM10 Sampler
With Solar PanelEPA Designated Inlet and
minIPM High Altitude Inlet

The BGI PQ100-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 over the past ten years in a multitude of domestic and international sampling scenarios. Most recently the introduction of the BGI *miniPM* Inlet, the PQ167R can be operated at sampling sites as high as 15,000 feet (4572meters) elevation.

The PQ100 – FRM Sampler meets and exceeds the US EPA requirements for manual ambient particulate sampling. BGI cooperated with the EPA in 1996 to provide design and parts of the PQ100 that later became design and performance specifications dictated by the EPA in 40CFRPart 53 in 1997 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



BGI

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Applications

- Ambient Particulate Monitoring (RFPS-1298-124)
- Fence Line Monitoring
- Remediation Projects
- Remote Site Monitoring
- High Altitude Sampling with Patented miniPM Inlet
- Suitable for Lead, Asbestos, Oil Mists, Indoor Air Pollutants and Allergens

Features

- US EPA designated for PM-10
- 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 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, PM 4.0, PM 2.5, PM 1 and TSP for Low or Ultra high Altitude
- PQ100 Base can be used as an IAQ and Special Study Flow Controlled Vacuum Pump

Part#	Description
PQ167R	Portable PM10 Sampling System w/ Rigid Stand (120 or 240 volts)
3410	Portable TSP Sampling System w/ Rigid Tripod (120 or 240 volts)
PQ100	Portable Battery Operated Pump, w/ charger/ cables/ download software
A1904	Filter Holder Adapter
VSCCA	PM2.5 In Line Cyclone to convert from PM10 to PM2.5 Sampling
SP21	Solar Panel 32 Watt Power with Cables, Hardware and Regulator
A1446	Hose Adapter-Filter Holder (Silver)
F215	Spare 47mm Plastic Filter Holder and Metal Carrying Canister
CQ2	Download Cable
5011	miniPM Inlet Complete for TSP, PM1.0, PM2.5 and PM10

