



BGI 900

Informational Ordering Sheet

Note: If more information is required please contact BGI:

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SYSTEMS

High Volume Cascade Impactor (does not include pumping system or Tripod)

Follow these steps to compose a system:

- 1) **Required:** Select one Top PM-10 Stage that uses a PUF or Greased Impaction Substrate (Part #1 Below)
- 2) User Options: Select as many Intermediate Collection Stages as desired (Part #2 Below)
- 3) **Required:** Select a Final Collection Stage. This must be the smallest cut-point in the system (Part #3 Below)
- 4) Since the flow rate of the system must be calibrated BGI highly recommends purchasing either a HC-1 (Single Range High Volume Calibrator) or a HC-2 (Dual Range High Volume Calibrator) along with a HVCI9505 Top Loading Audit Flow Rate Adapter.

1) Top Collection Stage Selections (Required: Choose One)

HVCIG100	PM-10 Greased Top Collection Stage & Sampler Assembly
HVCIP100	PM-10 PUF Top Collection Stage and Sampler Assembly

Includes:

The Top Collection Stage available in two substrate configurations, one using Silicone Impactor Grease and the second, PolyUrethane Foam (PUF). The above assemblies include the selected Stage (including housing, Acceleration Jet Plate and two identical Collection Platforms), Rain Cap with mounting hardware, Sampler Base Plate with Quick Disconnect. The PM-10 PUF Top Collection Stage includes a package of PM-10 PUF (HVCI7952). These substrates and grease are consumable items which can be ordered in the Collection Media section of this list. Also included is one Magnehelic Gauge Assembly for Flow Rate Setting, using a BGI HiVol Calibrator.

2) Intermediate Collection Stage Selections (Select As Desired)

HVCIM025	PM-2.5 PUF Intermediate Collection Stage
HVCIM010	PM-1.0 PUF Intermediate Collection Stage
HVCIM005	PM-0.5 PUF Intermediate Collection Stage
HVCIM001	PM-0.1 PUF Intermediate Collection Stage

Includes:

Each Intermediate Collection Stage includes Housing, Acceleration Jet Plate, & two identical Collection Platforms. The PM-2.5 Collection Stage includes a package of 10 PM-2.5 PUF Substrates (HVCI7953). Each PM-1.0, 0.5 and 0.1 Intermediate Collection Stage is supplied with a package of 10 PUF Substrates (HVCI7954).

3) Bottom Collection Stage Selection (Required: Choose one which must be the smallest cut-point in the System)

HVCIF025	PM-2.5 PUF Final Collection Stage
HVCIF010	PM-1.0 PUF Final Collection Stage
HVCIF005	PM-0.5 PUF Final Collection Stage
HVCIF001	PM-0.1 PUF Final Collection Stage
HVCIF000	Ultrafine Final Filter Stage

Includes:

With the exception of the Ultrafine Final Filter Stage, each PM Final Collection Stage includes a Housing, Acceleration Jet Plate, and two identical Collection Platforms. The PM-2.5 Collection Stage includes a package of 10 PM2.5 PUF Substrates (HVCI7953). Each PM-1.0 to PM-0.1 Collection Stage is supplied with a package of 10 PUF Substrates for PM-1.0 to PM-0.1 (HVCI7954). The Ultrafine Final Filter Stage comes with a package of 10 Filter Substrates (HVCI 7955).

PUMPING SYSTEMS

BGI recommends several vacuum pump configurations for different locations in the world. Reference the specifications, Operators Manual on our website at <http://www.bgiusa.com/agc/hvci.htm>. *BGI does not sell the Pump, Valving or Hose.*

Consumables and Spare Parts:

COLLECTION MEDIAS:

HVCI9515	Dow Corning© 976 Silicone Grease, 5.3 oz Tube
HVCI7952	Untreated PM-10 PUF Substrate, Package of 10
HVCI7953	Untreated PM-2.5 PUF Substrate, Package of 10
HVCI7954	Untreated PM-1.0, PM-0.5 and PM-0.1 PUF Substrate, Package of 10
HVCI7955	Pallflex© TX40 PTFE Coated Glass Micro-Fiber Absolute Filter, Package of 10
HVCI5300	Grade 5300 Polypropylene Filter, Package of 10

SYSTEM COMPONENTS:

HVCI7958	Aluminum Rain Cap, Pie Pan
HVCI7948	Set of 4 Mounting Screws for Rain Cap
HVCI8587	Aluminum Top and Intermediate Impactor Housing Rings with Latches
HVCI8588	Final Stage Impactor Housing
HVCI9500	Sampler Outlet Quick Disconnect
HVCI7949	Supporting Tripod with Feet
HVCI7950	Set of Three Feet for attaching to Tripod
HVCI9510	Magnehelic Gauge

ACCELERATION JET PLATES (including parts to attach Collection Platform, but not including the Collection Platform):

HVCI7946-G100	PM-10 Greased Acceleration Jet Plate
HVCI7946-P100	PM-10 PUF Acceleration Jet Plate
HVCI7946-P025	PM-2.5 PUF Acceleration Jet Plate
HVCI7946-P010	PM-1.0 PUF Acceleration Jet Plate
HVCI7946-P005	PM-0.5 PUF Acceleration Jet Plate
HVCI7946-P	PM-0.1 PUF Acceleration Jet Plate

SPARE PUF & GREASE COLLECTION RINGS/PLATFORMS:

HVCI7947-G100	PM-10 Greased Collection Platform
HVCI7947-P100	PM-10 PUF Collection Platform
HVCI7947-P025	PM-2.5 PUF Collection Platform
HVCI7947-P018	PM-1.0 to PM-0.1 PUF Collection Platform
HVCI7947-0000	PM-10 Ultrafine Filtration Platform

RECOMMENDED PARTS:

HVCI7956	Housing Silicone O-Ring Kit, Package of 5
HVCI7957	Collection Platform O-Ring Kit, Package of 5
HVCI9505	Top Loading Audit Flow Rate Adapter
HVC1	Single Range High Volume Calibrator (7 – 54 CFM)
HVC2	Dual Range High Volume Calibrator (low 1.4 – 7 CFM, high 7 – 54 CFM)
HVC8	Single Range High Volume Calibrator (0.2 – 1.53 M ³ /Min)
HVC9	Single Range High Volume Calibrator (200 – 1530 LPM)