URG

Better Air. Better Lives.

2011 Parts Catalog









116 S. Merritt Mill Road Chapel Hill, NC 27516 USA www.urgcorp.com

Phone 919-942-2753 Fax 919-942-3522 email info@urgcorp.com

ORDERING INFORMATION

TERMS AND CONDITIONS

How to Order:

Ordering may be done via telephone, fax, or email. Office hours are 9AM to 5PM EST, Monday through Friday for phone orders.

Phone: 919-942-2753 Fax: 919-942-3522 Email: info@urgcorp.com
Address all orders to:
URG CORPORATION
116 S. MERRITT MILL RD.
CHAPEL HILL, NORTH CAROLINA 27516 USA

Drop Shipment

If items are to be shipped to a third party, please include full address, contact name, and a phone number.

Quotations

Call or fax anytime during operating hours to receive a quotation or information on any of **URG**'s products. Quotations are valid for 60 days.

Payment Terms

We accept Purchase Orders for domestic orders once credit references have been approved. Other accepted methods of payment are Visa, Mastercard, or COD. All international orders must be prepaid via wire transfer or credit card.

If goods are to be shipped to North Carolina, tax information is required.

Shipping Charges

The customer is responsible for shipping costs. Please specify preferred shipping method when placing an order. Most domestic shipping is via UPS or Federal Express.

Cancellations

All canceled orders will be charged at least 5% of the order purchase price with a minimum charge of $50.00. Orders which have proceeded into the production process will be charged according to the degree of completion at the time of cancellation. Sorry, no cancellation on custom special orders.

Return of Materials

Unused items can be returned for credit within 30 days of receipt. Restocking fee is 25% of list price. Non-defective instruments and instruments deemed "special orders" cannot be returned. If for any reason it is necessary to return an item, please contact us for forwarding instructions.

Warranty

URG Corp. warrants to the purchaser that any equipment manufactured by URG Corp. and bearing its nameplate shall be free from defects in material or workmanship under proper, normal use and service. If at any time within one (1) year from date of shipment the purchaser notifies the seller that, in his opinion, the equipment is defective and returns the equipment to the seller's originating factory prepaid. If the seller's inspection finds the equipment to be defective in material or workmanship, the seller will promptly correct it by either, at its option, repairing any defective part, material, or workmanship, or replacing it free of charge and return shipped lowest-cost transportation prepaid (if purchaser requests premium transportation, purchaser will be billed for difference in transportation costs). If inspection by the seller does not disclose any defect in material or workmanship, the seller's regular charges will apply. This warranty shall be effective only if installation and maintenance is in accordance with our instructions and written notice of a defect is given to the seller within such period.

Breakage

Every effort is made in packaging to prevent breakage during shipment. If, however, breakage does occur, please report such damage to URG immediately. Do not discard the packing material or parcel so claims for breakage can be promptly made to the carrier.

Safety Notice

Repair of instrumentation manufactured by URG should only be attempted by properly trained service personnel and should only be conducted in accordance with the URG system documentation. High voltages may be present in all instrument enclosures. Use established safety precautions when working with this instrument. Do not tamper with this hardware. The seller cannot foresee all possible modes of operation in which the user may attempt to utilize this instrumentation. The user assumes all liability associated with the use of this instrumentation. The seller disclaims any responsibility for consequential damages.

Disclaimer

Due to the nature of the industry and URG's commitment to serving the user with the most technological advancements, some samplers and parts may have design improvements since the publication of this catalog. Therefore, illustrations and photographs herein may not always reflect our latest models. Any technical advice, written or verbal, made by URG or by any representative of URG of any product is believed to be reliable. However, the company makes no warranty, expressed or implied, of results to be obtained. Please check reference literature (e.g. Timer Instructions, IP-9 Compendium) before proceeding. All manufacturer's recommendations and official reference manuals supercede URG procedures.

Patents, Copyrights and Trademarks

Instrumentation from URG is covered by patents in the United States of America. This documentation contains trade secrets and confidential information proprietary to URG. The documentation supplied with the instrumentation and any information contained therein may not be used, duplicated, or disclosed to anyone, in whole or in part, other than as authorized in a fully executed URG End User License or with the express written permission of URG.

Product facts shown in this catalog reflect information available as of publication date and are subject to change.

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If you have any questions, please contact us at:

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Air Samplers







Ambient Ion Monitor

Time Resolved Direct Measurement of Nitrate, Sulfate and Ammonium

MEASUREMENT CAPABILITIES:

- State-of-the-Art Sampler with the Ability to Separate and Analyze Each Ion Individually
- Anion and Cation Particulate Analyzed Every Hour
- Optional Configuration Available to Analyze Every 15 Minutes
- Can be Configured to Achieve Detection Limits as Low as .05µg/m^3
- Separates the Nitrate and Sulfate Ions so the Measurements are Not Affected by Other Nitrogen Containing Compounds
- Measures Actual Nitrate Ions, Not Converted Forms of Nitrate Such as NOX
- Losses Due to Volatilization are Eliminated

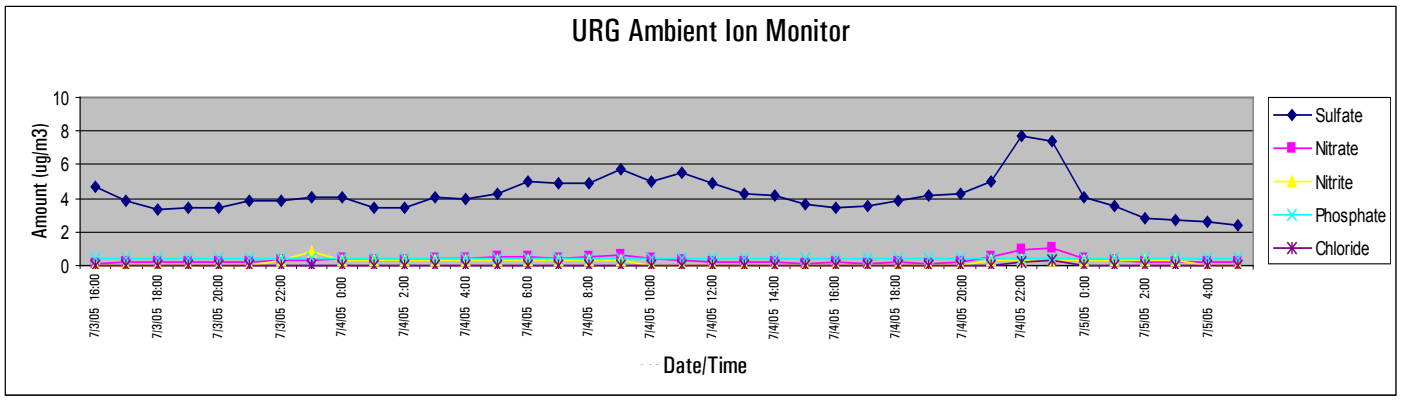
SPECIFICATIONS for URG-9000A & URG-9000B:

- Detection Limit Range of .1µg/m^3
- 3Lpm Sampling Rate
- Available as 115VAC or 220VAC
- Bidirectional RS232 Internal Data Storage
- Displays Data in µg/m^3
- Available as Free Standing or Rack Mountable Unit
- 19” x 16” x 36”
- 65-85 lbs.



URG-9000A
Ambient Ion Monitor
External View

Data Collected in Chapel Hill, North Carolina



Ambient Ion Monitor

ANALYSIS METHOD:

- Incorporates Proven Analysis Method of Ion Chromatography which is Currently Being Used by USEPA
- Requires as Little as 4 Liters of Deionized Water for 10 Sample Days
- Can Collect and Analyze up to 10 Days Unattended

ORDERING INFORMATION:

- **URG-9000A** - Time Resolved Measurements of Nitrate and Sulfate
- **URG-9000B** - Time Resolved Measurements of Nitrate, Sulfate and Ammonium

All of the Ambient Ion Monitors Include Chemical Suppression Ion Chromatographs (IC). The IC's on any of the URG 9000 Series Ambient Ion Monitors Can Be Upgraded to the Options Below:

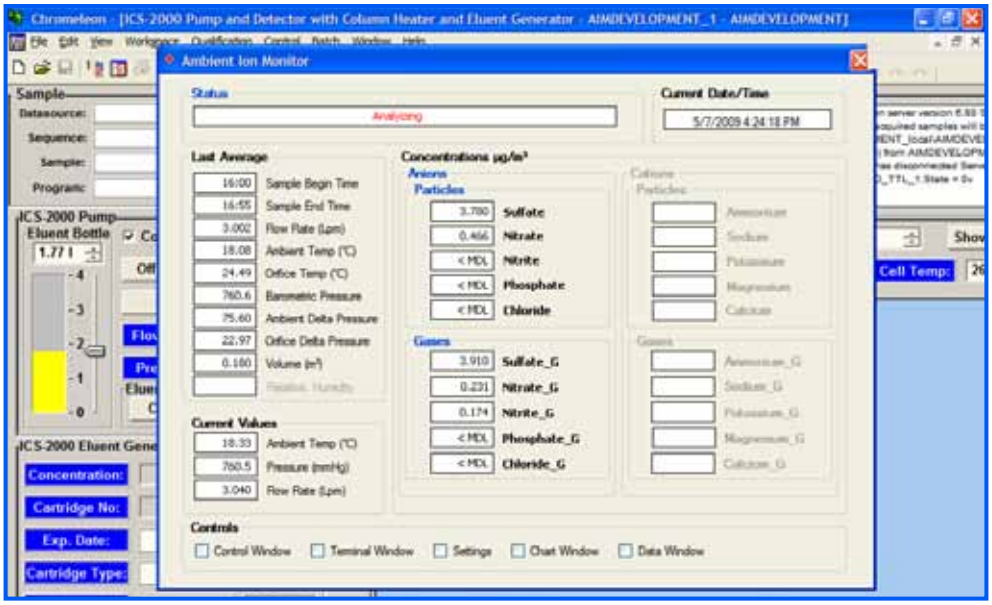
IC OPTIONS:

- *Electrolytic Suppression IC*
- *Reagent Free IC*



URG-9000B
Ambient Ion Monitor
Internal View

Software Control Screen for Ambient Ion Monitor



Ambient Ion Monitor

Time Resolved Direct Measurement of Nitrate, Sulfate, Hydrogen Chloride, Nitric Acid, Nitrous Acid and Sulfur Dioxide

MEASUREMENT CAPABILITIES:

- State-of-the-Art Sampler with the Ability to Separate and Analyze Each Ion Individually
- Anion Gases and Particulate Analyzed Every Hour
- Optional Configuration Available to Analyze Every 15 Minutes

SPECIFICATIONS for URG-9000C:

- Detection Limit Range of .1µg/m^3
- 3Lpm Sampling Rate
- Available as 115VAC or 220VAC
- Bidirectional RS232 Internal Data Storage
- Displays Data in µg/m^3
- Available as Free Standing or Rack Mountable Unit
- 19” x 16” x 36”
- 65-85 lbs.

ANALYSIS METHOD:

- Incorporates Proven Analysis Method of Ion Chromatography which is Currently Being Used by USEPA
- Requires as Little as 4 Liters of Deionized Water for 10 Sample Days
- Can Collect and Analyze up to 10 Days Unattended

ORDERING INFORMATION:

- **URG-9000C** - Time Resolved Measurements of Nitrate, Sulfate, Hydrogen Chloride, Nitric Acid Nitrous Acid and Sulfur Dioxide

All of the Ambient Ion Monitors Include Chemical Suppression Ion Chromatographs (IC). The IC’s on any of the URG 9000 Series Ambient Ion Monitors Can Be Upgraded to the Options Below:

IC OPTIONS:

- *Electrolytic Suppression IC*
- *Reagent Free IC*



URG-9000C
Ambient Ion Monitor
External View

Ambient Ion Monitor

Time Resolved Direct Measurement of Nitrate, Sulfate, Hydrogen Chloride, Nitric Acid, Nitrous Acid and Sulfur Dioxide

MEASUREMENT CAPABILITIES:
- State-of-the-Art Sampler with the Ability to Separate and Analyze Each Ion Individually
- Anion Gases and Particulate Analyzed Every Hour
- Optional Configuration Available to Analyze Every 15 Minutes

SPECIFICATIONS for URG-9000D:
- Detection Limit Range of .1µg/m^3
- 3Lpm Sampling Rate
- Available as 115VAC or 220VAC
- Bidirectional RS232 Internal Data Storage
- Displays Data in µg/m^3
- Available as Free Standing or Rack Mountable Unit
- 19" x 16" x 36"
- 65-85 lbs.

ANALYSIS METHOD:
- Incorporates Proven Analysis Method of Ion Chromatography which is Currently Being Used by USEPA
- Requires as Little as 4 Liters of Deionized Water for 10 Sample Days
- Can Collect and Analyze up to 10 Days Unattended



URG-9000D
Ambient Ion Monitor
Internal View

ORDERING INFORMATION:

- **URG-9000D** - Time Resolved Measurements of Nitrate, Sulfate, Hydrogen Chloride, Nitric Acid Nitrous Acid and Sulfur Dioxide

All of the Ambient Ion Monitors Include Chemical Suppression Ion Chromatographs (IC). The IC's on any of the URG 9000 Series Ambient Ion Monitors Can Be Upgraded to the Options Below:

IC OPTIONS:
- *Electrolytic Suppression IC*
- *Reagent Free IC*

Semi-Volatile Organic Aerosol Sampler

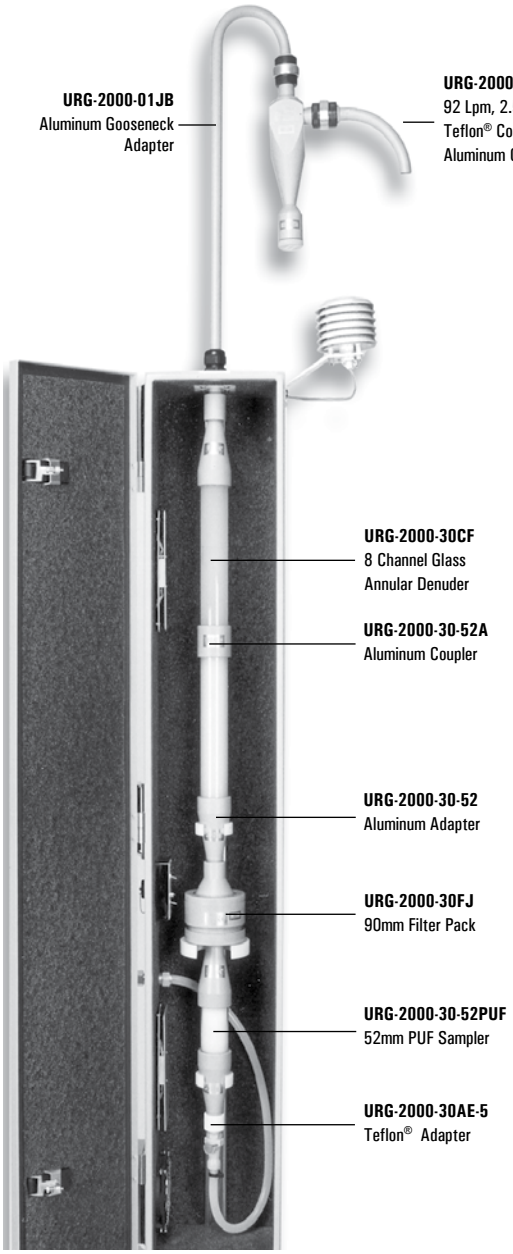
Simultaneous Collection of Gas and Particulate Phase Semi-Volatile Organics

MEASUREMENT CAPABILITIES:

- Direct Determination of the True Phase Distribution of SVOC's
- XAD-4 Coated Annular Denuder for Separation of SVOC Gases
- The Temperature Regulated Sampling Box Minimizes Volatilization of the SVOC's During Sampling and Protects the Collection System from Environmental Changes

SPECIFICATIONS for URG-3000DB:

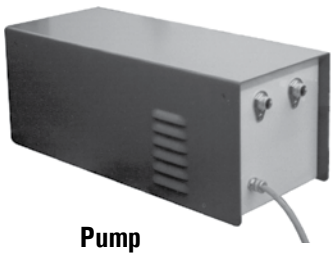
- Temperature Regulated Sampling Box 60" x 12" x 12", 20 lbs.
- Computerized Sampling Pump, 100Lpm @ 15" Hg 24" × 10" × 10", 40 lbs.
- 92Lpm 2.5*µm*
- Available as 115VAC or 220VAC
- Interactive Process Control Software
- Maintains User Defined Settings for Flow and Temperature
- Monitors Ambient and Sample Conditions
- Data Logging Capable



Insulated Sampling Box



Computer



Pump

Annular Denuder System

Simultaneous Collection of Particles and Gases

MEASUREMENT CAPABILITIES:

- Designed to Meet USEPA's Compendium Method IP-9 and Compendium Method IO-4.2, *Determination of Atmospheric Fine Particles and Gases in Ambient Air Using Annular Denuder Technology*
- Accurate Method for Measuring Gases: HNO_3, HONO, NH_3, SO_2, HCl Particles: NO_3-, SO_4=, NH_4+
- Single Day Sampler
- Concentrates Samples for Characterization by Ion Chromatography

SPECIFICATIONS for URG-3000C:

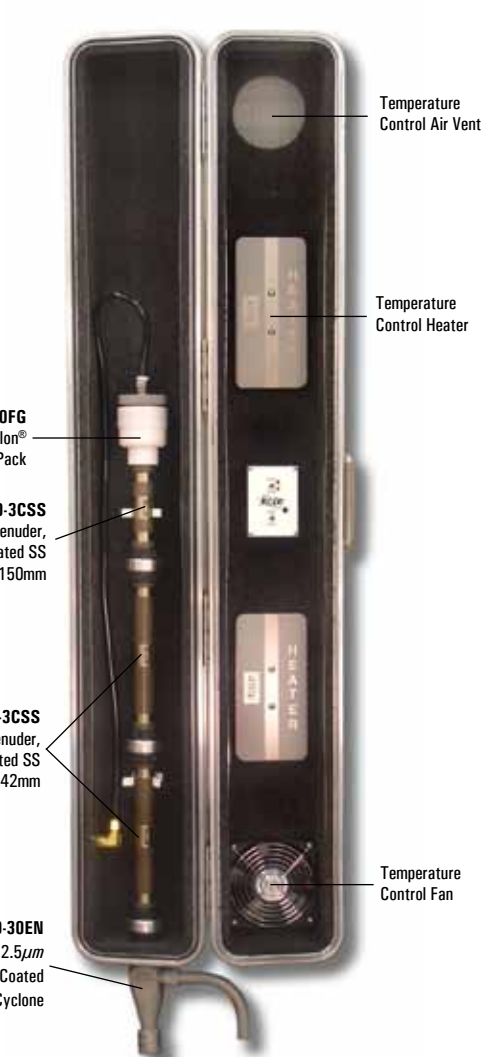
- Temperature Regulated Sampling Box 49.5" x 7" x 7", 28 lbs.
- Computerized Sampling Pump Seven Day Programmable 18" x 14.5" x 11", 40 lbs.
- 10Lpm 2.5*µm*
- Available as 115VAC or 220VAC



URG-3000-02BA
Computerized Sampling Pump
2-20Lpm Flow Range



URG-3000-02C
Dry Gas Meter



URG-2000-01
Insulated Sampling Box

Medium Volume Particulate Sampler

Medium Volume PM-2.5 and PM-10 Particulate Sampler



URG-3000ABC
External View

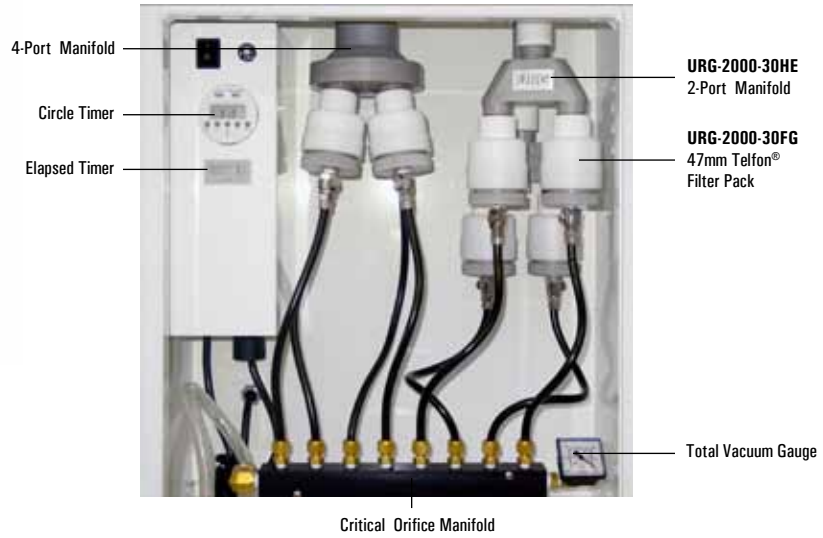
MEASUREMENT CAPABILITIES:

- Can Collect Multiple PM-2.5 and PM-10 Samples Simultaneously
- Eight Flow Rates Controlled by Critical Orifices
- Enclosure Has Sufficient Space for Multiple Sampling Configurations Including Annular Denuders, Filter Packs and PUF Samplers

SPECIFICATIONS for URG-3000ABC:

- Weather-tight Aluminum Enclosure 24" x 20" x 12", 20 lbs.
- 66Lpm Total Flow Rate
- Available as 115VAC or 220VAC
- Circle Timer for On/Off Settings
- Vaned Vacuum Pump Capable of 16" Vacuum at 66Lpm
- Resetable Elapsed Timer
- Total Vacuum Gauge

Internal View
Configured for (8) 47mm Filter Holders



Versatile Air Pollutant Sampler (VAPS)™

Simultaneous Collection of Coarse and Fine Particles

MEASUREMENT CAPABILITIES:

- Designed to Collect Both Coarse Particles (2.5*μm* to 10*μm*) and Fine Particles with Little or No Interference from Sampling Artifacts
- Three Samples Taken Simultaneously
- Virtual Impactor Inlet
- Concentrates the Samples for Characterization by State-of-the-Art Analytical Methods, Ion Chromatography, XRF, HPLC and GL

SPECIFICATIONS for URG-3000K:

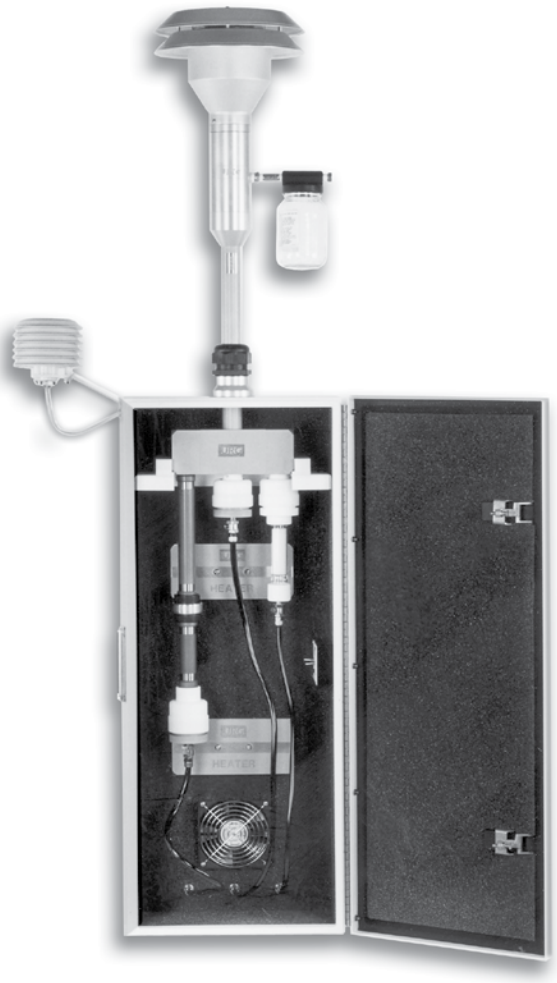
- Temperature Regulated Sampling Box 8" x 14" x 36", 40 lbs.
- Computerized Sampling Pump 32" x 18" x 15", 80 lbs.
- 32Lpm Flow Rate
- Available as 115VAC or 220VAC



URG-3000-02G
Computerized Sampling Pump

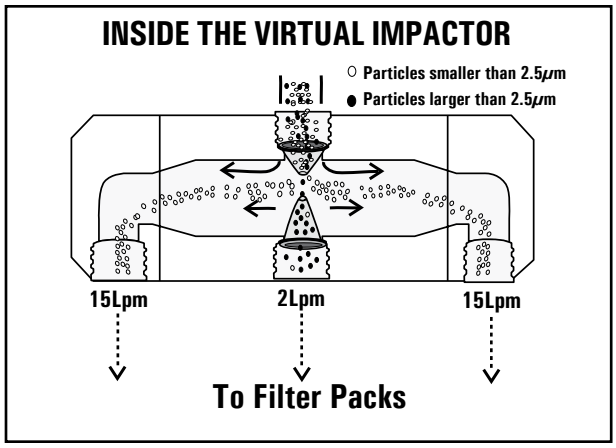


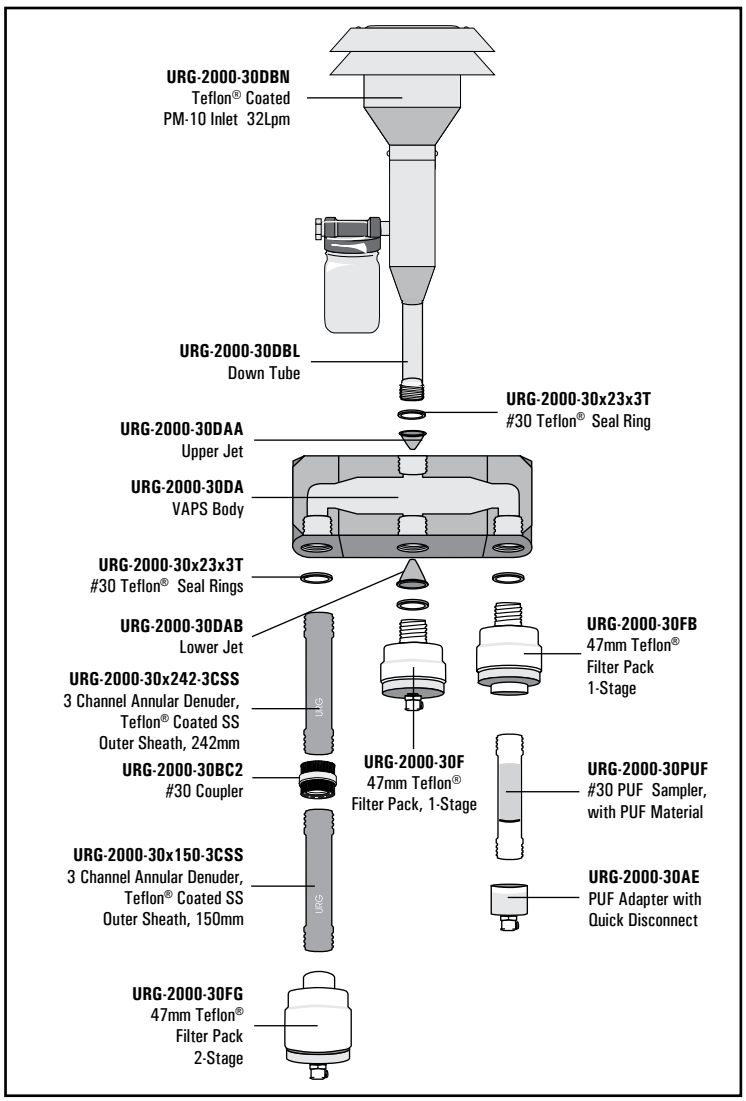
URG-3000-02C
Dry Gas Meters



URG-2000-01D
Insulated Sampling Box

Versatile Air Pollutant Sampler (VAPS)™





Simultaneous Collection of Particles and Gases

LEFT CHANNEL - INORGANIC FINE PARTICLES

URG-2000-30x242-3CSS
#30 Annular Denuder, 3 Channel, Teflon® Coated Stainless Steel Outer Sheath, 242mm
Coat with: Na_2CO_3
Collects: SO_2, HNO_3, HCl
Analysis: IC, Colorimeter Autoanalysis, Selective Electrodes

URG-2000-30x150-3CSS
#30 Annular Denuder, 3 Channel, Teflon® Coated Stainless Steel Outer Sheath, 150mm (Optional Denuder)
Coat with: Phosphorous or Citric Acid
Collects: NH_3
Analysis: IC, Colorimeter Autoanalysis

URG-2000-30FG
47mm Teflon® Filter Pack, 2-Stage
Collects: Fine Particles, Mass, H+, Elemental Composition, Trace Elements
Analysis: XRF (X-ray Fluorescence), INAA (Instrumental Neutron Activation Analysis), Atomic Absorption and ICP Instrumentation

MIDDLE CHANNEL - COARSE PARTICLES

URG-2000-30F
47mm Teflon® Filter Pack, 1-Stage
Collects: Coarse Particles
Analysis: SEM (Scanning Electron Microscopy)

RIGHT CHANNEL - ORGANIC FINE PARTICLES

URG-2000-30FB
47mm Teflon® Filter Pack, 1-Stage with Adapter for PUF
Collects: Fine Particles, Inorganic Anion Concentration, Acidity, Particulate PAH's Elemental Carbon
Analysis: XRF, SEM (Scanning Electron Microscopy)

URG-2000-30PUF
PUF Sampler, Includes PUF Material and Teflon® Lined End Caps
Collects: Semi-Volatile and Condensable Organic Polynuclear Aromatic Hydrocarbons (PAH's)
Analysis: High Pressure Liquid Chromatographic and Gas Chromatographic-Mass Spectrometry, GC/FID or GC/ECD

Weekly Air Particulate Sampler

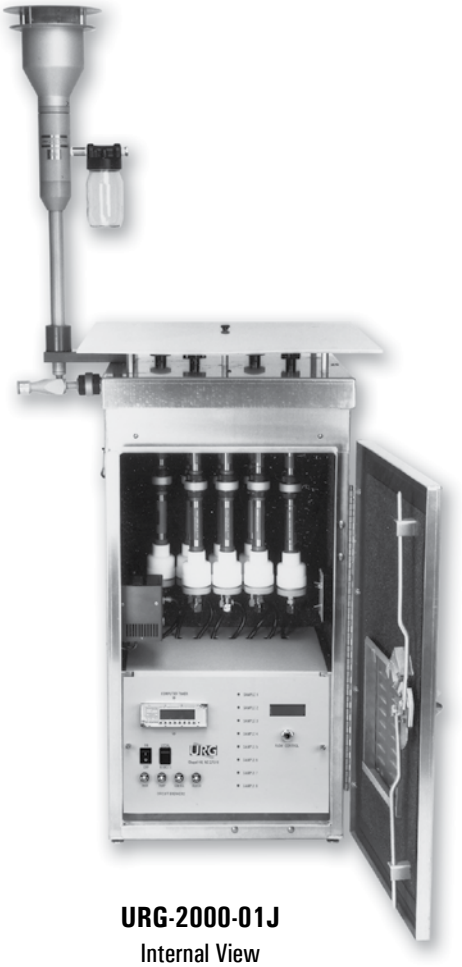
Seven Day Sampler
Simultaneous Collection of Particles and Gases

MEASUREMENT CAPABILITIES:

- Low Maintenance - Ideal for Remote Areas
- System Can be Left Unattended for Up to Seven Days
- Programmable for Collection of Up to Eight Consecutive Samples at Pre-Set Intervals
- Capable of Viewing and Programming Multiple Settings for Different Sampling Time Periods
- Internal Components are Interchangeable (Filter Packs, Annular Denuders and PUFs)
- Volumetric Flow Control
- Constant Temperature Control

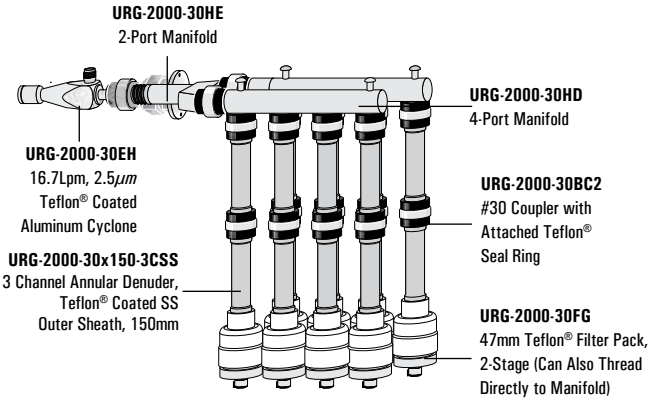
SPECIFICATIONS for URG-2000-01J:

- Temperature Regulated Sampling Box 36” x 22” x 13 1/2”, 80 lbs.
- 16.7Lpm 2.5μm
- Available as 115VAC or 220VAC

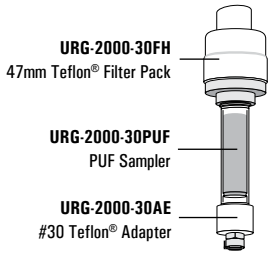


URG-2000-01J
Internal View

URG-2000-01J Detailed View of Sampling Components



Optional Sampling Train Configured for the Collection of SVOC’s



Dual Sequential Fine Particle Sampler



URG-2000-01K
Internal View

Four Day Sequential Sampler Simultaneous Collection of Particles and Gases

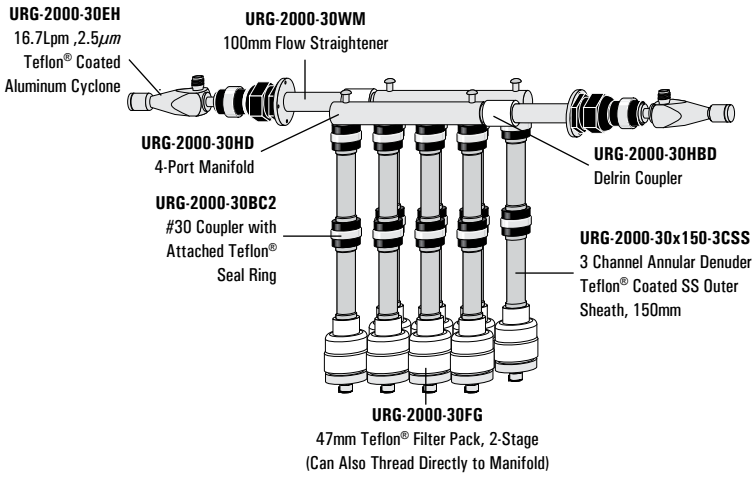
MEASUREMENT CAPABILITIES:

- Collects Four Pairs of Samples in Parallel
- Collects Aerosols, SVOC's and Mass
- Low Maintenance - Ideal for Remote Areas
- Capable of Viewing and Programming Multiple Settings for Different Sampling Time Periods
- Internal Components are Interchangeable (Filter Packs, Annular Denuders, and PUFs)
- Volumetric Flow Control
- Constant Temperature Control

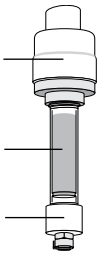
SPECIFICATIONS for URG-2000-01K:

- Temperature Regulated Sampling Box 36" x 22" x 13 1/2", 80 lbs.
- 16.7Lpm 2.5μm
- Available as 115VAC or 220VAC

URG-2000-01K Detailed View of Sampling Components



Optional Sampling Train Configured for the Collection of SVOC's



Mercury Sampling System

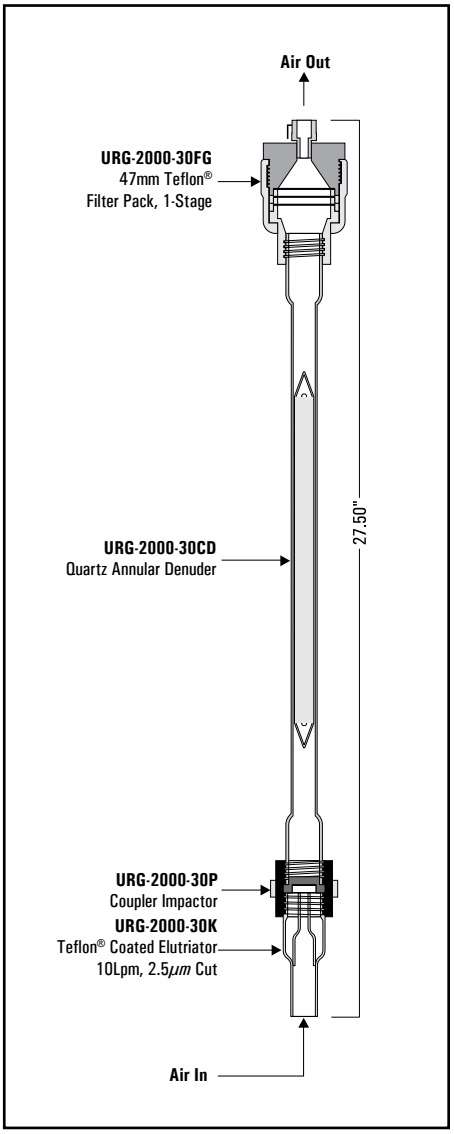
Simultaneous Collection of Gas Phase and Particulate Mercury

MEASUREMENT CAPABILITIES:

- Speciated Measurements of Reactive Gas Phase Mercury (RGM) and Particulate Mercury
- Incorporates KCl Coated Quartz Annular Denuder
- Insulated Sampling Box Maintains Temperature at Approximately 35 Degrees Celsius

SPECIFICATIONS for URG-3000M:

- Insulated Sampling Box
  49.5" x 7" x 7", 15 lbs.
- Computerized Sampling Pump
  Seven Day Programmable
  18" x 14 1/2" x 11", 40 lbs.
- 10Lpm 2.5*μm*
- Available as 115VAC or 220VAC





URG-3000M
Insulated Sampling Box

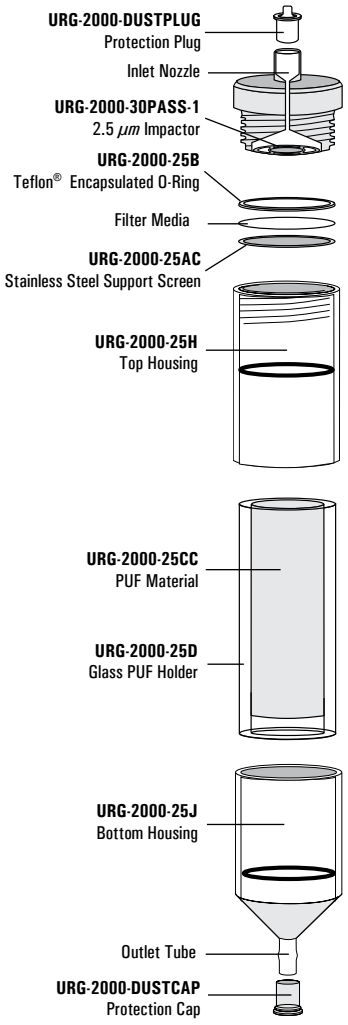


URG-3000-02C
Dry Gas Meter



URG-3000-02BA
Computerized Sampling Pump
2-20Lpm Flow Range

Personal Sampler for Pesticides, PAH's and Other Semi-Volatile Compounds



MEASUREMENT CAPABILITIES:

- **ASTM Standard 4861** *Reads: "7.1.6. A size-selective impactor inlet with an average particle-size cut-point of 2.5µm mean diameter at a sampling rate of 4Lpm may be used to exclude non-respirable airborne particulate matter (9)."*
- **ASTM Standard 4947**
- **USEPA Method TO-10**
- Collects Pesticides, PAH's and Other Semi-Volatile Compounds
- Designed for 25mm Filter Media
- PUF Encased in Glass Holder for Easy Removal
- Impactor Removable for Easy Cleaning
- Wearable

SPECIFICATIONS for URG-2000-25 Series:

- 35mm Outer Diameter
- 160mm Overall Length
- 3.4 Ounces

ORDERING INFORMATION:

- **URG-2000-25A** 4Lpm, 2.5µm
- **URG-2000-25AA** 4Lpm, 1.0µm
- **URG-2000-25AB** 4Lpm, 10.0µm
- **URG-2000-25AG** 2Lpm, 2.5µm
- **URG-2000-25AF** 2Lpm, 1.0µm
- **URG-2000-25AH** 2Lpm, 10.0µm



URG-2000-25E
Impactor Removal Tool



URG-2000-25A

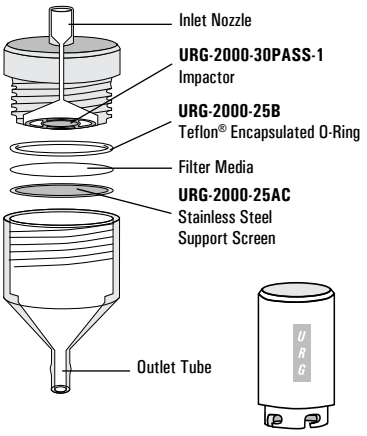
Personal Impactor for 25mm Filter

SPECIFICATIONS:
- For Measuring Mass, Anions, Cations, Trace Metals and Carbon
- 35mm Outer Diameter
- 65mm Overall Length
- High Density Polyethylene Housing

ORDERING INFORMATION:
- 4Lpm, 1*µm*
- 2Lpm, 1*µm*
- 4Lpm, 2.5*µm*
- 2Lpm, 2.5*µm*
- 4Lpm, 10*µm*
- 2Lpm, 10*µm*



URG-2000-25F



Expanded View

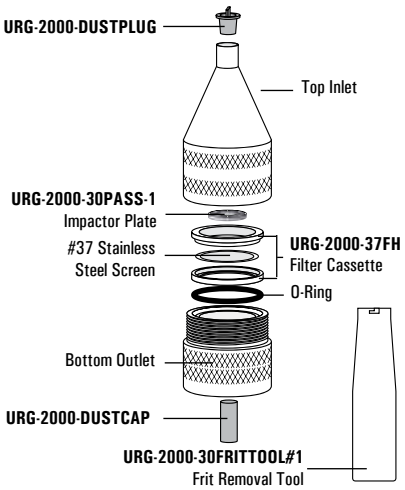
PM-2.5 Personal Impactor with 37mm Cassette

SPECIFICATIONS:
- For Measuring Mass, Anions, Cations and Trace Metals
- 52mm Outer Diameter
- 118mm Overall Length
- High Density Polyethylene Housing

ORDERING INFORMATION:
- 2Lpm, 2.5*µm*, 1-Stage
- 5Lpm, 2.5*µm*, 1-Stage



URG-2000-37F



Expanded View

Personal Sampler for Human Biomarker Studies

SPECIFICATIONS:
- For Measuring Fine Particles, Semi-Volatiles, Metals and PAH's
- Lightweight, Modular
- 200mm Overall Length

ORDERING INFORMATION:
- 1.5Lpm, 2.5*µm*
- 1.7Lpm, 2.5*µm*
- 2Lpm, 2.5*µm*



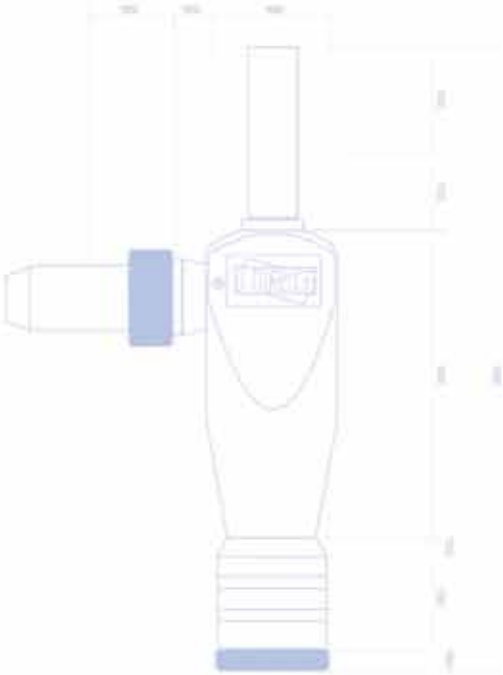
URG-2000-15T

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Inlets









16.7Lpm, 1.0*µm*

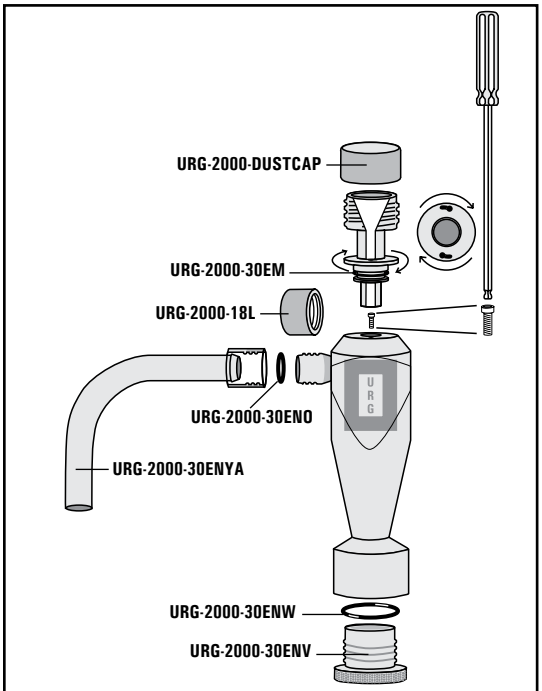
Teflon® Coated Aluminum Cyclone with Removable Top

SPECIFICATIONS:

- Teflon® Coated Aluminum
- Dimensions: 5 1/4" x 5 7/8" x 1 1/4"
- Weight: .5 lbs.
- 5/8" OD 90 Degree Inlet Arm *(URG-2000-30ENYA)*
- Also Available with Straight Inlet Arm *(URG-2000-30ENYF)*



URG-2000-30EHB



Expanded View

3Lpm, 2.5*µm*

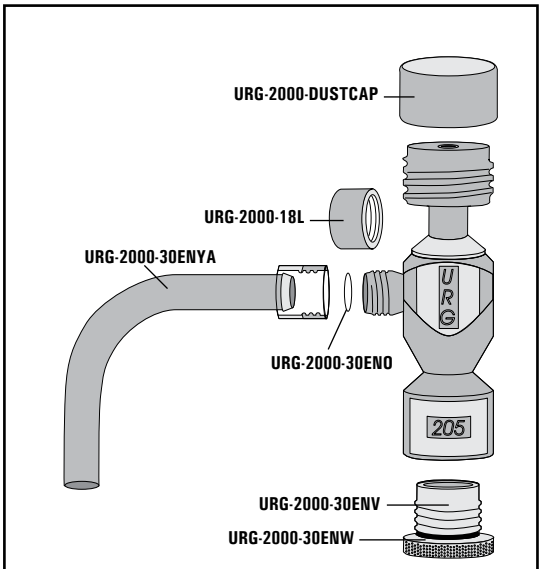
Teflon® Coated Aluminum Cyclone

SPECIFICATIONS:

- Teflon® Coated Aluminum
- Dimensions: 4 1/2" X 5 3/4" x 1 1/4"
- Weight: .5 lbs.
- 5/8" OD 90 Degree Inlet Arm *(URG-2000-30ENYA)*
- Also Available with Straight Inlet Arm *(URG-2000-30ENYF)*



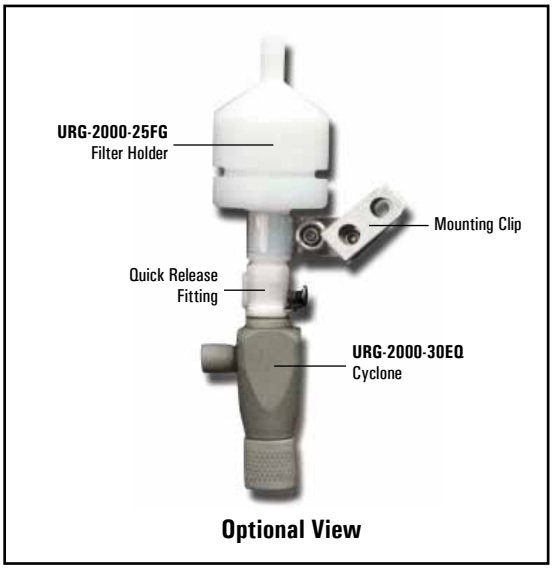
URG-2000-30ED



Expanded View

3Lpm, 2.5*µm*
Personal Sampling Cyclone

SPECIFICATIONS:
- Teflon® Coated Aluminum
- Dimensions: 2 1/2" x 1 1/4" x 3/4"
- Weight: .07 lbs.

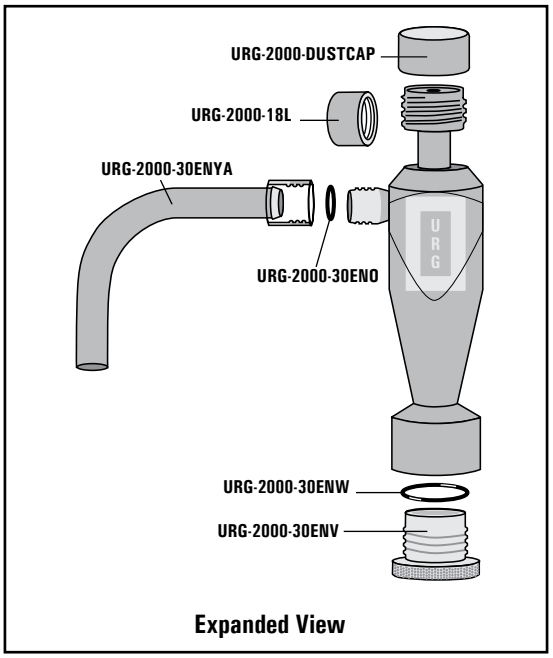


Optional View


URG-2000-30EQ

10Lpm, 2.5*µm*
Teflon® Coated Aluminum Cyclone

SPECIFICATIONS:
- Teflon® Coated Aluminum
- Dimensions: 6 1/4" x 5 7/8" x 1 1/4"
- Weight: .5 lbs.
- 5/8" OD 90 Degree Inlet Arm *(URG-2000-30ENYA)*
- Also Available with Straight Inlet Arm *(URG-2000-30ENYF)*



Expanded View


URG-2000-30EN

16.7Lpm, 2.5*µm*

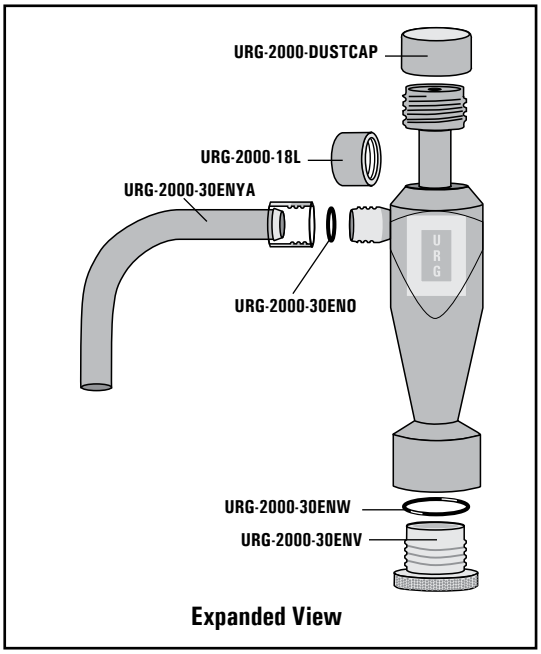
Teflon® Coated Aluminum Cyclone

SPECIFICATIONS:

- Teflon® Coated Aluminum
- Dimensions: 6 1/2" x 6 1/8" x 1 1/2"
- Weight: .75 lbs.
- 5/8" OD 90 Degree Inlet Arm *(URG-2000-30ENYA)*
- Also Available with Straight Inlet Arm *(URG-2000-30ENYF)*



URG-2000-30EH



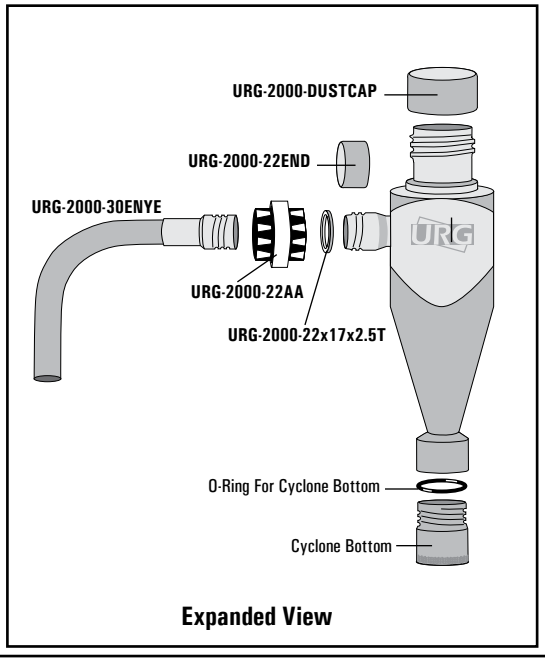
Expanded View

42Lpm, 2.5*µm*

Teflon® Coated Aluminum Cyclone

SPECIFICATIONS:

- Teflon® Coated Aluminum
- Dimensions: 8" x 7 3/4 " x 2 1/4"
- Weight: 1.5 lbs.
- 5/8" OD 90 Degree Inlet Arm *(URG-2000-30ENYE)*
- Also Available with Straight Inlet Arm *(URG-2000-30ENYH)*



Expanded View



URG-2000-30EC

10Lpm, 2.5*µm*
Stainless Steel Cyclone

SPECIFICATIONS:
- Stainless Steel
- 12mm OD Tube at Inlet and Outlet
- Designed for a Flow of 10Lpm with a 2.5*µm* Cutpoint
- Removable Top for Easy Cleaning
- Dimensions: 3” x 1.25” x 5.125”
- Weight: 1.2 lbs.
- Available with Straight Arm and 90 Degree Inlet



URG-2000-30ENS

16.7Lpm, 2.5*µm*
Stainless Steel Cyclone

SPECIFICATIONS:
- Stainless Steel
- 1/2” OD Tube at Inlet and 15mm OD Tube at Outlet
- Designed for a Flow of 16.7Lpm with a 2.5*µm* Cutpoint
- Removable Top for Easy Cleaning
- Dimensions: 2.685” x 1.5” x 6.375”
- Weight: 1.66 lbs.



URG-2000-30EHS

92Lpm, 2.5*µm*
Stainless Steel Cyclone



URG-2000-30EP

SPECIFICATIONS:
- Stainless Steel
- #30 Male Thread at Inlet and Outlet
- Designed to Meet USEPA's Specifications for CFR Part 86 Subpart N Revisions for the Certification of Heavy Duty Diesel Engines
- Provides 99% Flow Through of Particles 1*µm* and Smaller
- 16.7Lpm 10*µm* to 92Lpm 2.5*µm* Operating Range
- Dimensions: 11 5/8" x 3 7/8" x 2 1/2" (Without Inlet Adapter Installed)
- Weight: 7 lbs. (Without Inlet Adapter Installed)

92Lpm, 2.5*µm*
Stainless Steel Cyclone



URG-2000-30ER

SPECIFICATIONS:
- Stainless Steel
- #30 Male Thread at Inlet and 3/4" FNPT at Outlet
- Designed to Meet USEPA's Specifications for CFR Part 86 Subpart N Revisions for the Certification of Heavy Duty Diesel Engines
- Provides 99% Flow Through of Particles 1*µm* and Smaller
- 16.7Lpm 10*µm* to 92Lpm 2.5*µm* Operating Range
- Dimensions: 11 5/8" x 3 7/8" x 2 1/2" (Without Inlet Adapter Installed)
- Weight: 7.6 lbs. (Without Inlet Adapter Installed)

92Lpm, 2.5*µm*
Stainless Steel Cyclone

SPECIFICATIONS:
- Stainless Steel
- #30 Male Thread at Inlet and 1/2" FNPT at Outlet
- Designed to Meet USEPA's Specifications for CFR Part 86 Subpart N Revisions for the Certification of Heavy Duty Diesel Engines
- Provides 99% Flow Through of Particles 1*µm* and Smaller
- 16.7Lpm 10*µm* to 92Lpm 2.5*µm* Operating Range
- Dimensions: 13 1/4" x 3 7/8" x 2 1/2" (Without Inlet Adapter Installed)
- Weight: 7.9 lbs. (Without Inlet Adapter Installed)



URG-2000-30ES

92Lpm, 2.5*µm*
Stainless Steel Cyclone

SPECIFICATIONS:
- Stainless Steel
- 1" OD Tube at Inlet and Outlet
- Designed to Meet USEPA's Specifications for CFR Part 86 Subpart N Revisions for the Certification of Heavy Duty Diesel Engines
- Provides 99% Flow Through of Particles 1*µm* and Smaller
- 16.7Lpm 10*µm* to 92Lpm 2.5*µm* Operating Range
- Dimensions: 11 5/8" x 4 1/4" x 2 1/2"
- Weight: 7.3 lbs.



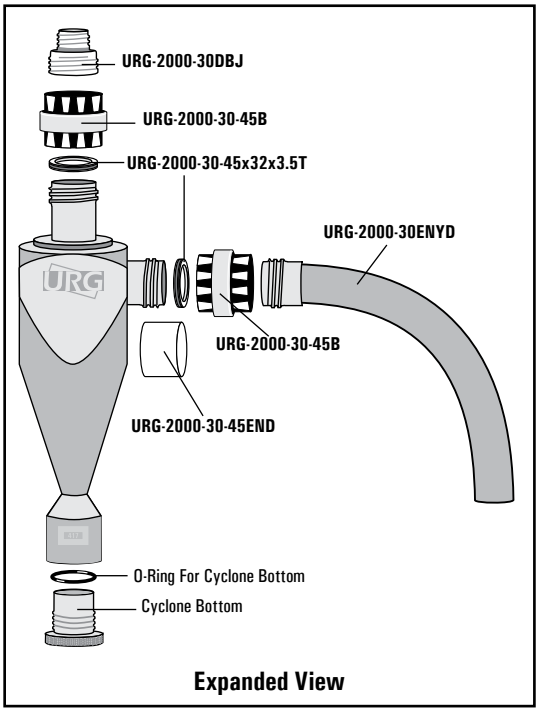
URG-2000-30ET

28.3Lpm, 10*µm*
Teflon® Coated Aluminum Cyclone

SPECIFICATIONS:
- Teflon® Coated Aluminum
- Dimensions: 16” x 13 7/8” x 3 1/2”
- Weight: 6 lbs.
- 1 1/2” OD 90 Degree Inlet Arm *(URG-2000-30ENYD)*
- Also Available with Straight Inlet Arm *(URG-2000-30ENYJ)*



URG-2000-30EA



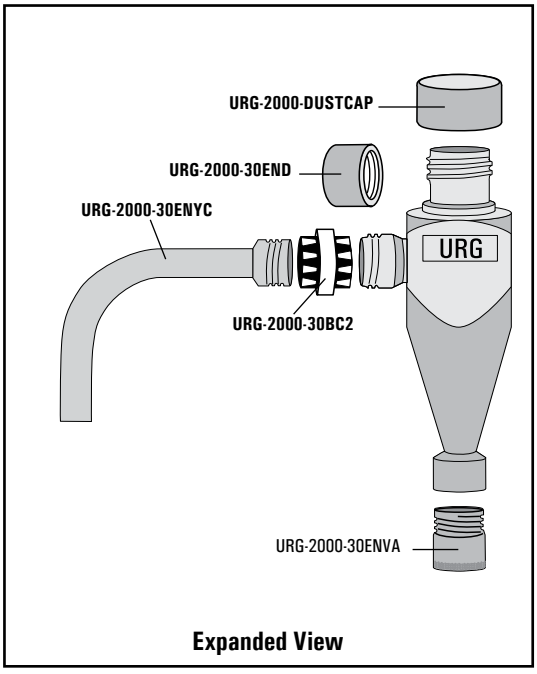
Expanded View

16.7Lpm, 10*µm*
Teflon® Coated Aluminum Cyclone

SPECIFICATIONS:
- Teflon® Coated Aluminum
- Dimensions: 11 3/4” x 10 1/4” x 2 1/2”
- Weight: 3 lbs.
- 7/8” OD 90 Degree Inlet Arm *(URG-2000-30ENYC)*
- Also Available with Straight Inlet Arm *(URG-2000-30ENYG)*



URG-2000-30ENB



Expanded View

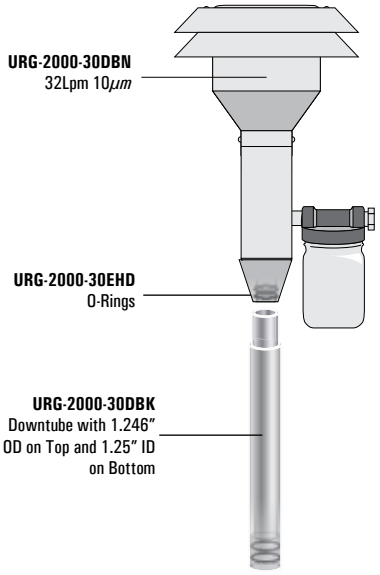
Teflon® Coated PM-10 Inlet

SPECIFICATIONS:
- Operating Flow Rate of 16.7Lpm or 32Lpm
- Also Available Anodized
- New USEPA Designed Louvered Top
- Dimensions: 9 3/4" x 15 3/8"
- Weight: 5.4 lbs.

FEATURES:
- 32Lpm PM-10 Inlet Used on URG-3000K (VAPS) and URG-3000ABC Sampler
- 16.7Lpm PM-10 Inlet Used on USEPA FRM 2.5 Samplers and Speciation Sampler Network



URG-2000-30DBQ
16.7pm 10μm



Optional Downtubes



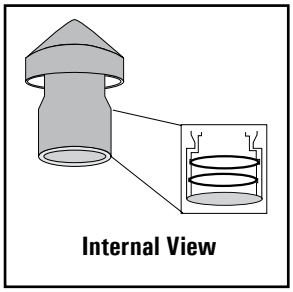
URG-2000-01KA
For Attaching PM-10 Inlet to Weekly Air Particulate Sampler and Dual Channel Sequential Fine Particle Sampler



URG-2000-30DBL
For Attaching PM-10 Inlet to Versatile Air Pollutant Sampler

Teflon® Coated TSP Inlet

SPECIFICATIONS:
- Designed to Collect Total Suspended Particulate at 16.7Lpm
- Teflon® Coated Aluminum
- 1.25” ID with O-Rings
- Fits Thermo’s TEOM and Partisol
- Used as Inlet Cover on Custom Manifolds
- Fits Any Beta Gauge with a 1.246” OD Inlet Tube
- Dimensions: 2 1/2” OD x 2 5/8” Height
- Weight: .3 lbs.



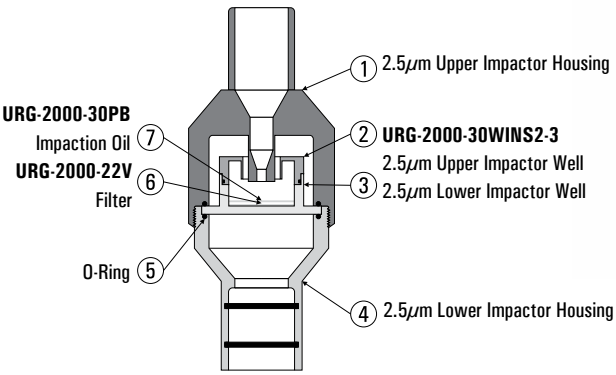
Internal View



URG-2000-30DG

WINS Impactor 16.7Lpm, 2.5*µm*

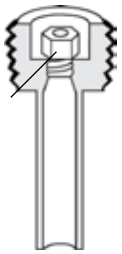
SPECIFICATIONS:
- Designed to Operate Downstream of PM-10 Inlet
- USEPA Approved Second Stage Size Selective Inlet on FRM Network
- Available Teflon® Coated or Anodized
- Available with 1.246” OD or #30 Female Thread at Inlet
- Available with 1.25” ID or #30 Female Thread at Outlet
- Dimensions: 3” OD x 6 1/2” Height
- Weight: 1.2 lbs.





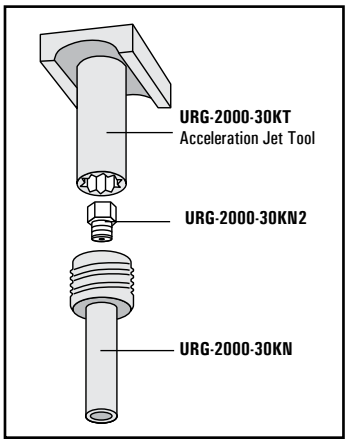
URG-2000-30WINS-A
16.7pm 2.5 *µm*
Anodized

Elutriator Inlet with Acceleration Jet



URG-2000-30KN
Teflon® Coated Aluminum Elutriator

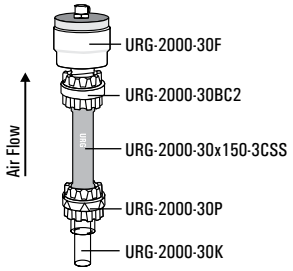
SPECIFICATIONS:
- Available with 1*μm,* 2.5*μm or* 10*μm* Cutpoint
- Choose an Operating Flow Rate Between 1 to 20Lpm
- Teflon® Coated Glass or Aluminum
- Available with Removable Acceleration Jet
- #30 Thread Allows Direct Connection to Coupler-Impactor
- Dimensions: 1 1/8" OD x 2 1/2" Height
- Weight: .07 lbs.



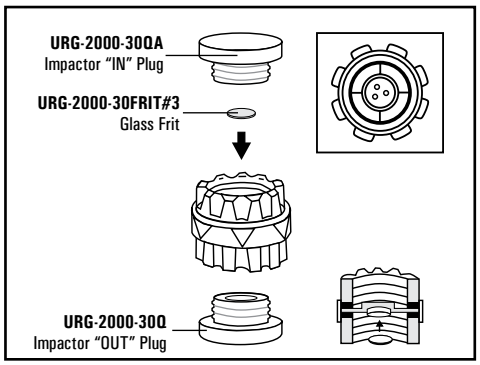


URG-2000-30K
Teflon® Coated Glass
Elutriator

Coupler-Impactor Shown with Annular Denuder and Filter Pack Assembly



Coupler-Impactor Assembly



Coupler-Impactor for Use with Elutriator Inlet

SPECIFICATIONS:
- Built-In Teflon® Impactor Plate or Removable Aluminum Impactor Plate
- Includes Removable Glass Frit or Removable Aluminum Impactor Plate with Stainless Steel Frit
- Dimensions: 2" OD x 2" Height
- Weight: .15 lbs.
- Requires Elutriator Inlet



URG-2000-30P
With Built In Teflon®
Impactor Plate

Frit Removal Tool



URG-2000-30PASS-1
Impactor Plate for
URG-2000-30PASS



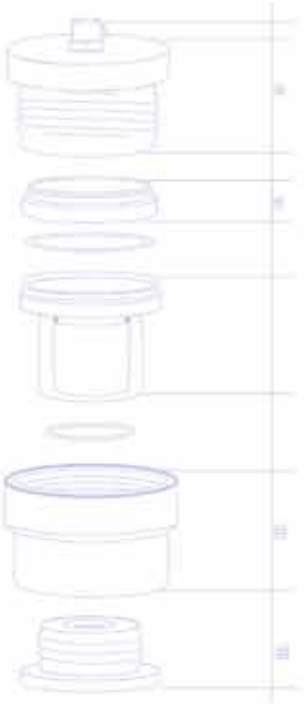
URG-2000-30PASS
With Removable Aluminum
Impactor Plate

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Filter Packs









25mm Filter Pack for Personal Sampling

SPECIFICATIONS:

- Designed to Contain 25mm Filter Media
- Quick Release at Inlet for Attaching to Personal Sampling Cyclone
- Includes 25mm Stainless Steel Support Screen
- 1 3/8" Largest Outer Diameter
- 3 1/4" Height
- .08 lbs.

FEATURES:

- Stainless Steel Support Screen Also Available Teflon® Coated
- Design Ensures Sample Integrity and Allows for Easy Transportation to and from Lab
- Hose Barb for 1/8" ID Tubing at Outlet for Easy Attachment to Vacuum Pump



Optional View

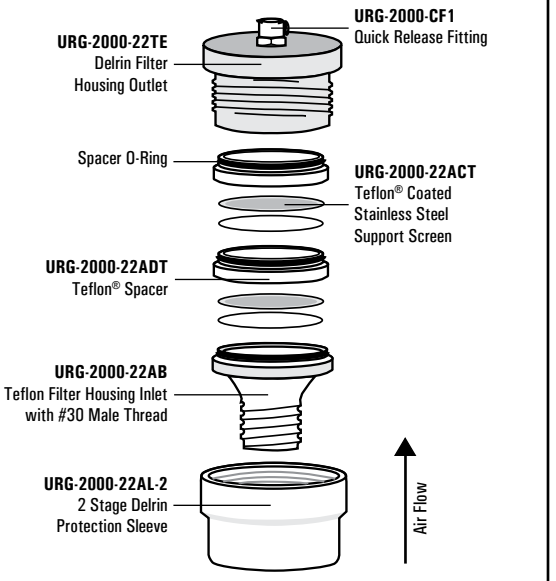


URG-2000-25FG
25mm Filter Pack



Optional View

37mm Teflon® Filter Pack with #30 Male Thread at Inlet



Expanded View 2-Stage Filter Pack

SPECIFICATIONS:

- Designed to Contain 37mm Filter Media
- #30 Thread at Inlet to Allow Direct Connection to Annular Denuders, Manifolds, Cyclones and Other URG Components
- Filters Separated by Teflon® Spacers
- 2 1/4" Largest Outer Diameter
- 4 1/4" Height *(URG-2000-22F, 2-Stage)*
- 3 1/2" Height *(URG-2000-22FB, 2-Stage)*
- .54 lbs. *(URG-2000-22F)*
- .44 lbs. *(URG-2000-22FB)*

FEATURES:

- Stainless Steel Support Screen is Teflon® Coated to Prevent Reactions Between Screen and Filter Media
- Design Ensures Sample Integrity and Allows for Easy Transportation to and from Lab
- URG-2000-22F Has Quick Release Fitting at Outlet for Easy Attachment to Vacuum Pump
- URG-2000-22FB Has #30 Female Thread at Outlet to Attach URG Components such as PUF Sampler
- Uses Novel O-Ring Arrangement to Prevent Contact Between O-Ring and Filter Media and Create a Leak-Proof Seal
- Available with 1 or 2 Stages

URG-2000-22FB
Filter Pack with #30 Female Thread at Outlet



URG-2000-22F
Filter Pack with Quick Release at Outlet

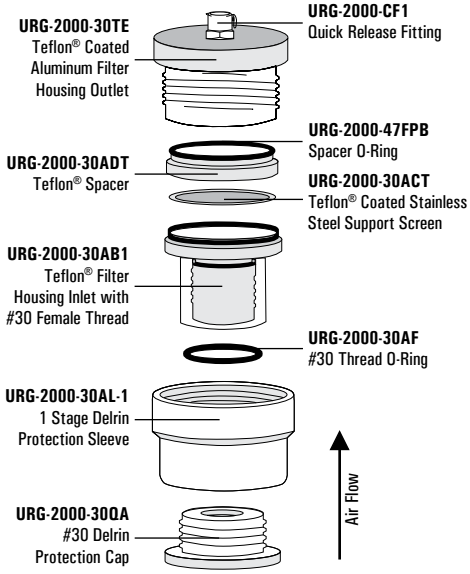
47mm Teflon® Filter Pack with Quick Release at Outlet

SPECIFICATIONS:

- Designed to Contain 47mm Filter Media
- #30 Thread at Inlet to Allow Direct Connection to Annular Denuders, Manifolds, Cyclones and Other URG Components
- Filters Separated by Teflon® Spacers
- 2 5/8" Largest Outer Diameter
- 5" Height *(2-Stage)*
- 1 lbs.

FEATURES:

- Stainless Steel Support Screen is Teflon® Coated to Prevent Reactions Between Screen and Filter Media
- Design Ensures Sample Integrity and Allows for Easy Transportation to and from Lab
- Uses Novel O-Ring Arrangement to Prevent Contact Between O-Ring and Filter Media and Create a Leak-Proof Seal
- Available with 1 to 4 Stages to Allow for Sampling on Multiple Filters at Once
  **See Price List For Individual Part Numbers*
- Quick Release Fitting at Outlet for Easy Attachment to Vacuum Pump



Expanded View 1-Stage Filter Pack



URG-2000-30F Series
Filter Pack with #30 Male Thread at Inlet



URG-2000-30FG Series
Filter Pack with #30 Female Thread at Inlet



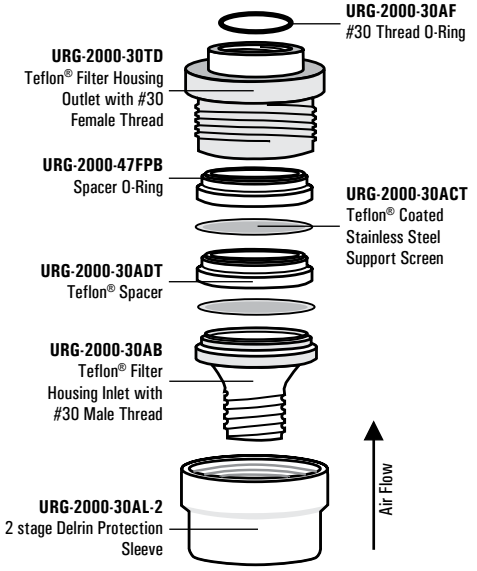
URG-2000-30RAF Series
Filter Pack with Quick Release at Inlet

47mm Teflon® Filter Pack with #30 Female Thread at Outlet

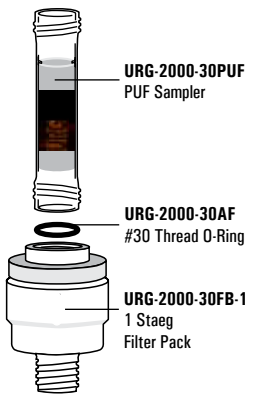
SPECIFICATIONS:
- Designed to Contain 47mm Filter Media
- #30 Thread at Inlet to Allow Direct Connection to Annular Denuders, Manifolds, Cyclones and Other URG Components
- Filters Separated by Teflon® Spacers
- 2 5/8" Largest Outer Diameter
- 4 1/4" Height *(2-Stage)*
- .5 lbs.

FEATURES:
- Stainless Steel Support Screen is Teflon® Coated to Prevent Reactions Between Screen and Filter Media
- Design Ensures Sample Integrity and Allows for Easy Transportation to and from Lab
- #30 Female Thread at Outlet to Attach URG Components such as PUF Sampler
- Uses Novel O-Ring Arrangement to Prevent Contact Between O-Ring and Filter Media and Create a Leak-Proof Seal
- Available with 1 to 4 Stages to Allow for Sampling on Multiple Filters at Once

**See Price List For Individual Part Numbers*



Expanded View 2-Stage Filter Pack



Shown with PUF Sampler



URG-2000-30FH Series
Filter Pack with #30 Female Thread at Inlet



URG-2000-30FB Series
Filter Pack with #30 Male Thread at Inlet

47mm Stainless Steel Filter Holder

SPECIFICATIONS:

- Designed to Contain 47mm Filter Media
- Stainless Steel
- 1/2" FNPT at Inlet and Outlet
- 3" Largest Outer Diameter
- 7 1/16" Height *(URG-2000-30FV-QCM)*
- 8" Height *(URG-2000-30FVT-QCM)*
- 2.85 lbs. *(URG-2000-30FV-QCM)*
- 3.7 lbs. *(URG-2000-30FVT-QCM)*

FEATURES:

- Can Be Used with Stainless Steel Cyclone for Diesel Emissions
- Designed to Meet USEPA's Specifications for CFR Part 86 Subpart N Revisions for the Certification of Heavy Duty Diesel Engines
- Available as Single or Dual Stage
- Filter Material Contained in 47mm Delrin Filter Cassette Specified by New USEPA Requirements
- Top is Hinged to Allow for Easy Filter Cassette Change Out



Optional View



URG-2000-30FVT-QCM
Dual Stage Stainless Steel Filter Holder with Removable Quick Connect Fittings

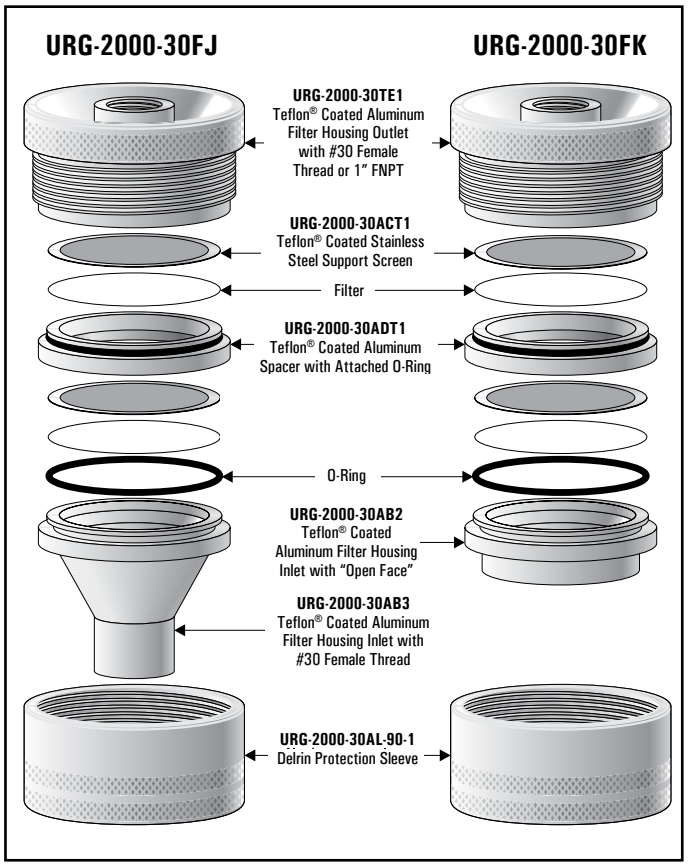


URG-2000-30FV-QCM
Single Stage Stainless Steel Filter Holder with Removable Quick Connect Fittings



URG-2000-30FV-MM-2C
Single Stage Stainless Steel Filter Holder with Integrated Quick Connect Stem

90mm Filter Pack with #30 Thread or "Open Face" Inlet



SPECIFICATIONS:

- Designed to Contain 90mm Filter Media
- Filter Separated by Teflon® Coated Spacers
- 4 1/2" Largest Outer Diameter
- 5 5/8" Height *(URG-2000-30FJ, 2-Stage)*
- 3 5/8" Height *(URG-2000-30FK, 2-Stage)*
- 2.5 lbs. *(URG-2000-30FJ, 2-Stage)*
- 2.2 lbs. *(URG-2000-30FK, 2-Stage)*

FEATURES:

- Stainless Steel Support Screen is Teflon® Coated to Prevent Reactions Between Screen and Filter Media
- Design Ensures Sample Integrity and Allows for Easy Transportation to and from Lab
- Available with #30 Thread or 1" FNPT at Outlet
  **See Price List For Individual Part Numbers*
- URG-2000-30FJ with #30 Female Thread at Inlet to Allow Direct Connection to Annular Denuders, Manifolds, Cyclones and Other URG Components
- URG-2000-FK with "Open Face" Inlet for Collection of Total Particles
- Uses Novel O-Ring Arrangement to Prevent Contact Between O-Ring and Filter Media and Creates a Leak-Proof Seal
- Available with 1 to 4 Stages to Allow for Sampling on Multiple Filters at Once
  **See Price List For Individual Part Numbers*



URG-2000-30FK Series
Filter Pack with "Open Face" Inlet



URG-2000-30FJ Series
Filter Pack with #30 Female Thread at Inlet

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Annular Denuders







Multi Channel Annular Denuders for Collecting Gases

SPECIFICATIONS:

- Available with 3 or 4 Channels
- 1mm Annular Spacing
- #30 Thread on Both Ends to Allow Direct Connection to Cyclones, Filter Packs and Other URG Components
- Teflon® Coated Flow Straightener on One End
- 28mm OD x 150mm Length *(URG-2000-30x150-3CSS)*
- 28mm OD x 242mm Length *(URG-2000-30x242-3CSS)*
- .67 lbs. *(URG-2000-30x150-3CSS)*
- 1 lbs. *(URG-2000-30x242-3CSS)*

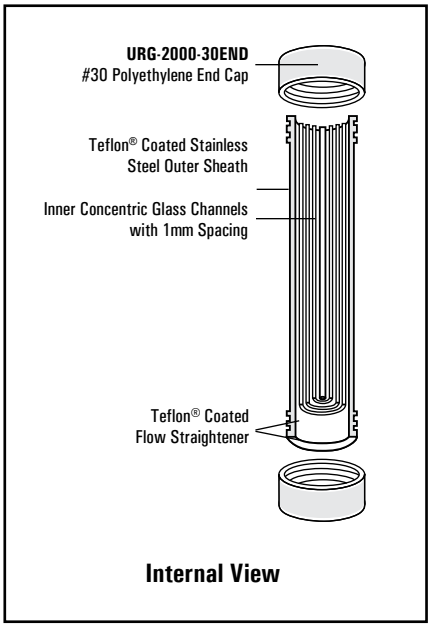


FEATURES:

- Glass Surfaces are Etched to Provide Increased Area for Coating and Collection
- Stainless Steel Outer Sheath for Durability
- Multi Channels Provide More Surface Area to Expand the Capacity of the Denuder
- Flow Straightener to Prevent Particle Collection in Annular Denuder
- Provided with Protective End Caps for Use While Coating and Extracting

ORDERING INFORMATION:

- **URG-2000-30x100-3CSS** 3 Channel, 100mm Length
- **URG-2000-30x150-3CSS** 3 Channel, 150mm Length
- **URG-2000-30x242-3CSS** 3 Channel, 242mm Length
- **URG-2000-30x242-4CSS** 4 Channel, 242mm Length
- **URG-2000-30x500-4CSS** 4 Channel, 500mm Length



Internal View

8 Channel Glass Annular Denuders for Collecting SVOC Gases

SPECIFICATIONS:
- 8 Channels
- 1mm Annular Spacing
- 2.5mm Length Recessed Spacing on Both Ends
- 52mm OD x 285mm Length *(URG-2000-30CF)*
- 52mm OD x 600mm Length *(URG-2000-30B8)*
- 1.9 lbs. *(URG-2000-30CF)*
- 4 lbs. *(URG-2000-30B8)*

FEATURES:
- Glass Surfaces are Etched to Provide Increased Area for Coating and Collection
- Multi Channels Provide More Surface Area to Expand the Capacity of the Denuder
- Teflon® Coated Aluminum Adapter with #30 Thread Allows for Direct Connection to Cyclones, Filter Packs and Other URG Components
- Flow Straightener to Prevent Particle Collection in Annular Denuder
- Provided with Protective Teflon® End Caps for Use While Coating and Extracting

ORDERING INFORMATION:

- **URG-2000-30CF** 8 Channel, 285mm Length

- **URG-2000-30B8** 8 Channel, 600mm Length

**Custom Lengths Also Available*



URG-2000-30B8 **URG-2000-30CF**

Glass Annular Denuder for Collecting Gases

SPECIFICATIONS:

- One Channel or Multi Channels Available
- 1mm Annular Spacing
- #30 Thread on Both Ends to Allow Direct Connection to Cyclones, Filter Packs and Other URG Components
- Teflon® Coated Flow Straightener on One End



URG-2000-30B-242
1 Channel Glass Annular Denuder

FEATURES:

- Available in any Length for Custom Sampling
- Glass Surfaces are Etched to Provide Increased Area for Coating and Collection
- Multi Channels Provide More Surface Area to Expand the Capacity of the Denuder
- Flow Straightener to Prevent Particle Collection in Annular Denuder
- Provided with Protective End Caps for Use While Coating and Extracting

ORDERING INFORMATION:

- **URG-2000-30B-242** 1 Channel, 242mm Length
- **URG-2000-30B4-150** 4 Channel, 150mm Length
- **URG-2000-30B4-242** 4 Channel, 242mm Length
- **URG-2000-30B5-242** 5 Channel, 242mm Length
- **URG-2000-30B5-400** 5 Channel, 400mm Length

**Length of All Glass Annular Denuders Can Be Customized per Customer Specifications*

Quartz Annular Denuders for Collecting Reactive Gas Mercury (RGM)



URG-2000-30CD

SPECIFICATIONS:
- 1mm Annular Spacing
- #30 Thread on Both Ends to Allow Direct Connection to Impactors, Filter Packs and Other URG Components
- 20” Total Length
- .3 lbs.

FEATURES:
- Entire Denuder is Made of Quartz to Allow for High Temperature Desorbtion
- Surfaces are Etched to Provide Increased Area for Coating and Collection
- Center Section is 20mm OD to Fit into Standard Furnaces for Desportion of RGM
- Provided with Protective End Caps for Use While Coating and Storing

Glass Denuder Coil for Collecting Ozone



URG-2000-30CB-C

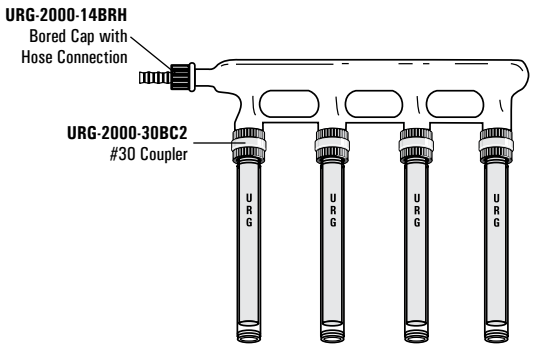
SPECIFICATIONS:
- Fits Xontech Carbonyl Sampler Model 925
- Constructed of 1/4” OD Pyrex Glass Tube
- Includes Teflon® Ferrules and Stainless Steel Nuts

FEATURES:
- Internal Surfaces of Coil are Etched to Provide Increased Surface Area for Coating and Collection
- Denuder Coil is Provided with Potassium Iodide Coating Already Applied *(URG-2000-30CB-C)*
- Denuder Coils Also Available Uncoated *(URG-2000-30-CB-UC)*

Glass Drying Manifold for Annular Denuders

SPECIFICATIONS:
- Made of Pyrex® Glass
- Includes Bored Cap with Hose Connection for Attaching to Tubing
- Includes #30 Couplers for Attaching Annular Denuders

FEATURES:
- Designed for the Annular Denuder Drying Method Described in the USEPA's Compendium Method I0-4.2
- Dries Multiple Annular Denuders Simultaneously
- 3 or 4-Ports Available
- Designed to Be Used with Drying Bottle



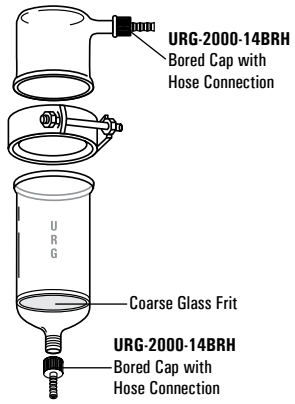
URG-2000-30H4

Shown Coupled to Annular Denuders
**Annular Denuders Not Included*

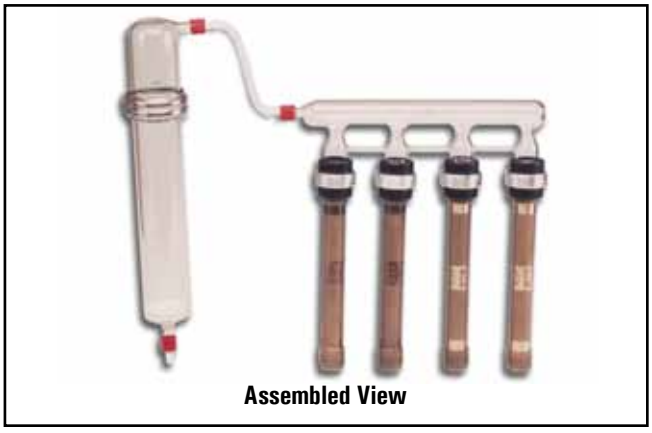
Glass Drying Bottle for Annular Denuders

SPECIFICATIONS:
- Made of Pyrex® Glass with Coarse Glass Frit
- Includes Bored Cap with Hose Connection for Attaching to Tubing
- Includes Clamp

FEATURES:
- Designed for the Annular Denuder Drying Method Described in the USEPA's Compendium Method I0-4.2
- Clamp Design Allows for Easy Filling with Silica Gel, Calcium Oxide, Activated Carbon, Etc.
- Designed to Be Used with Drying Manifold



URG-2000-30I



Assembled View





Accessories







Teflon® Coated Aluminum 4-Port Manifold

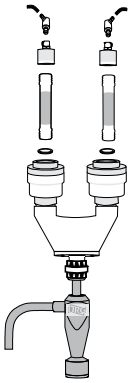
SPECIFICATIONS:
- #30 Thread at Inlet and Outlet for Direct Connection to Other URG Components
- 10.75” Length and 12.25” Length Available
- Includes Mounting Bolts
- 2.75” Center to Center Spacing at Outlet Ports



URG-2000-30HD

Teflon® Coated Aluminum 2-Port Manifold

SPECIFICATIONS:
- #30 Thread at Outlet for Direct Connection to Other URG Components
- Available with 3 Inlet Options
  - 1.25” Length #30 Male Thread
  - 4.5” Length #30 Male Thread
  - 1.246” OD at Inlet
- 3.125” Center to Center Spacing at Outlet Ports
- .9 lbs. (with 1.25” Length Outlet)





URG-2000-30HE

Teflon® Coated Aluminum 5-Port Manifold

SPECIFICATIONS:
- #30 Thread at Outlet
- Available Teflon® Coated or Anodized
- Available with 1.246” OD or #30 Female Thread at Inlet
- 6 1/4” Largest OD
- 2.4 lbs.



URG-2000-30HF

Glass Sampling Manifolds

SPECIFICATIONS:
- Pyrex® Glass
- Available with 2, 3, 4, 6 or 8 Sample Ports

FEATURES:
- Distribution Manifold for Multiple Gas Analyzers
- Small Volume Keeps Residence Time Short
- Available with Either 1/4”, 3/8” or 1/2” Inlet, Outlet and Sample Ports

ORDERING INFORMATION:

- **URG-2000-30HP2** Manifold with 3/8” OD Inlet and Outlet and (2) 1/4” OD Sample Ports
- **URG-2000-30HP3** Manifold with 3/8” OD Inlet and Outlet and (3) 1/4” OD Sample Ports
- **URG-2000-30HP6** Manifold with 3/8” OD Inlet and Outlet and (6) 1/4” OD Sample Ports
- **URG-2000-30HG4** Manifold with 3/8” OD Inlet and Outlet and (4) 3/8” OD Sample Ports
- **URG-2000-30HG8** Manifold with 3/8” OD Inlet and Outlet and (8) 3/8” OD Sample Ports
- **URG-2000-30HH4** Manifold with 1/2” OD Inlet and Outlet and (4) 1/4” OD Sample Ports
- **URG-2000-30HH6** Manifold with 1/2” OD Inlet and Outlet and (6) 1/4” OD Sample Ports



URG-2000-30HG4



URG-2000-30HG8

#30 PUF Sampler

SPECIFICATIONS:
- Available as Glass or Teflon® Coated Aluminum
- 28mm OD x 137mm Length - Glass *(URG-2000-30PUF-1)*
- 28.5mm OD x 100mm Length - Teflon® Coated Aluminum *(URG-2000-30-PUF-2)*
- .12 lbs. *(Glass)*
- .13 lbs. *(Teflon® Coated Aluminum)*

FEATURES:
- For Collecting SVOC's and PAH's
- #30 Thread on Both Ends for Direct Connection to Filter Packs and Other URG Components
- Includes Teflon® Lined Protective End Caps
- Internal Ridge at Outlet Side to Prevent PUF Material from Moving During Sampling



URG-2000-30PUF-1

#64 PUF Sampler

SPECIFICATIONS:
- Glass PUF Sampler
- 64mm OD x 127mm Length
- .41lbs.

FEATURES:
- For Collecting SVOC's and PAH's
- Designed to Meet USEPA Compendium Methods TO4, TO9, and TO13
- Replacement PUF Sampler for Thermo and Tisch Instruments
- Includes Stainless Steel Support Screen to Prevent PUF Material from Moving During Sampling
- Aluminum Transport and Storage Container Available
- End Caps Also Available in Delrin *(URG-2000-64SSD)*



URG-2000-64SSB
Aluminum Transport and Storage Container



URG-2000-64SS

#30 Teflon® Adapter



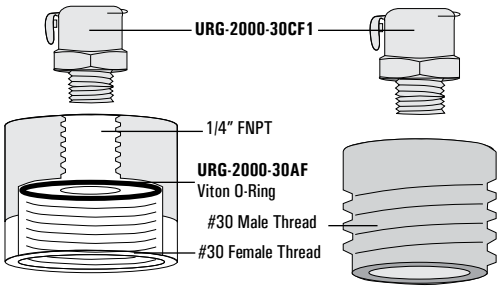
URG-2000-30AE

SPECIFICATIONS:
- Teflon® Adapter
- Adapter Available with #30 Female Thread or #30 Male Thread
- .16 lbs.

FEATURES:
- Allows URG Components to Adapt to Other Sampling Equipment
- Available with 1/4", 3/8" or 1/2" FNPT
- Threads Directly to All URG Components with #30 Thread

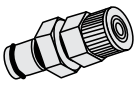
ORDERING INFORMATION:

- **URG-2000-30AE** #30 Female Thread with Quick Release
- **URG-2000-30AE-1** #30 Male Thread with Quick Release
- **URG-2000-30AE-2** #30 Female Thread with 1/4" FNPT
- **URG-2000-30AE-12** #30 Male Thread with 1/4" FNPT
- **URG-2000-30AE-7** #30 Female Thread with 3/8" FNPT
- **URG-2000-30AE-9** #30 Male Thread with 3/8" FNPT
- **URG-2000-30AE-6** #30 Female Thread with 1/2" FNPT
- **URG-2000-30AE-10** #30 Male Thread with 1/2" FNPT

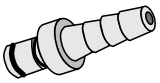


URG-2000-30AE URG-2000-30AE-1

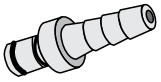
Quick Connect Tubing Fittings



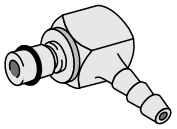
URG-2000-CF2
Chrome Fitting for 1/4" ID Tubing



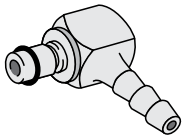
URG-2000-CF3
Chrome Fitting for 1/4" ID Tubing



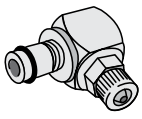
URG-2000-CF4
Chrome Fitting 3/8" ID Tubing



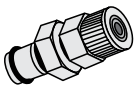
URG-2000-CF5
90 Degree Chrome Fitting for 1/4" ID Tubing



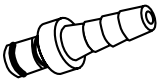
URG-2000-CF6
90 Degree Chrome Fitting for 3/8" ID Tubing



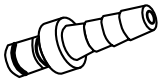
URG-2000-CF7
90 Degree Chrome Fitting for 1/4" ID Tubing



URG-2000-CF8
Chrome Fitting for 1/6" ID Tubing



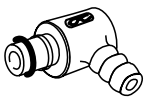
URG-2000-TF2
Thermoplastic Fitting for 1/4" ID Tubing



URG-2000-TF3
Thermoplastic Fitting for 3/8" ID Tubing



URG-2000-TF5
90 Degree Thermoplastic Fitting for 1/4" ID Tubing



URG-2000-TF6
90 Degree Thermoplastic Fitting for 3/8" ID Tubing

Protective End Caps

SPECIFICATIONS:
- Polyethylene End Cap
- Protection Cap Used for #30 Male Thread
- Also Available in Teflon® *(URG-2000-30ENDT)*
- Used When Storing, Coating and Extracting Annular Denuders



URG-2000-30END

SPECIFICATIONS:
- Teflon® Lined End Cap
- Protection Cap Used for #30 Male Thread
- Supplied with All Manifolds and Can Be Used to Cap Unused Manifold Ports



URG-2000-30ENDA

SPECIFICATIONS:
- Thermoplastic Bored Cap
- Used with Teflon® Clad Silicone Seal Rings
- Used with Seal Ring and Glass Insert as Desorption Coupler for Quartz Mercury Denuders



URG-2000-30BR

SPECIFICATIONS:
- Dustplug for Quick Release Fitting
- Dustcap for Cyclone Inlet Arms and Other Components That Cannot Be Sealed with a Threaded Cap



URG-2000-DUSTPLUG



URG-2000-DUSTCAP

Couplers



URG-2000-30BC2

SPECIFICATIONS:
- Delrin Coupler with Attached Teflon® Seal Ring
- Used to Connect #30 Male Threads Together
- 51mm OD
- .14 lbs.



URG-2000-30HDB

SPECIFICATIONS:
- Polyethylene Coupler with Viton O-Ring Face Seal
- Used to Connect #30 Male Threads Together
- 44.6mm OD
- .08 lbs.



URG-2000-30HDCA

SPECIFICATIONS:
- Teflon® Coated Aluminum Compression Coupler
- 1.25” ID on Both Sides with O-Rings
- 41.25mm OD
- .2 lbs.



URG-2000-30AA

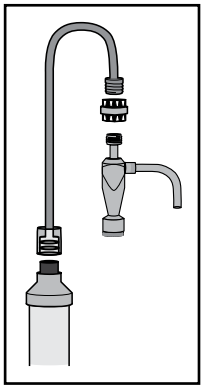
SPECIFICATIONS:
- Delrin Coupler
- Used to Connect #30 Male Threads Together
- Requires Separate Teflon® Seal Ring *(URG-2000-30x23x3T)*
- 47mm OD
- .07 lbs.

Gooseneck Adapter

SPECIFICATIONS:
- Teflon® Coated Aluminum
- 5/8” OD or 7/8” OD Tube
- 15” Length or 27” Length
- Designed to Be Used with a Cyclone to Replace PM-10 Inlet
- Available with #30 Male Thread or #30 Female Thread on Top
- Available with 1.25” ID, #30 Male Thread or #30 Female Thread on Bottom
- Additional Configurations and Lengths Available
- .58 lbs.



URG-2000-30EH-1A



Possible Configuration

#30 Flow Straightener

SPECIFICATIONS:
- Teflon® Coated Aluminum
- #30 Male Thread on Both Ends
- 100mm Length
- .13 lbs.



URG-2000-30WM

Aluminum Adapter

SPECIFICATIONS:
- Teflon® Coated Aluminum with Teflon® Coated 1/2” OD Stainless Steel Stub
- Threads Directly onto any URG Component with #30 Male Thread
- Also Available with 1/4” OD Stainless Steel Stub *(URG-2000-30AJ-1)*
- .21 lbs.



URG-2000-30AJ-2
Adapter with 1/2” OD Stainless Steel Stub

Field-to-Lab Carrying Case

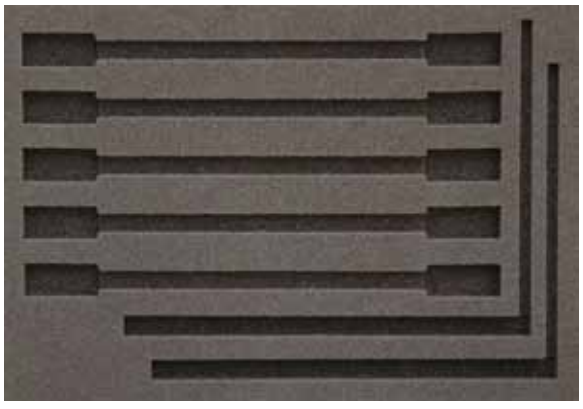


URG-2000-30LB

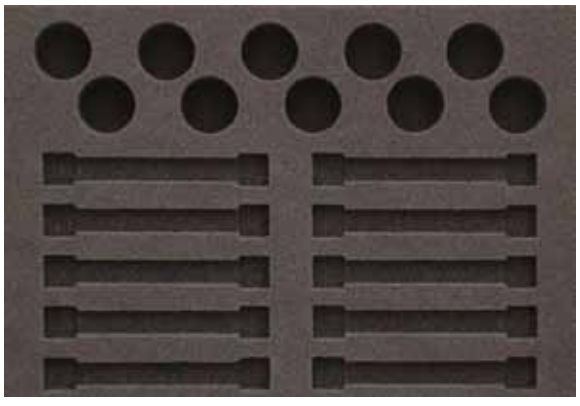
SPECIFICATIONS:
- Made of Rugged Plastic and Insulated with Polyurethane Foam
- Dent and Rust Resistant
- 26” x 17” x 6”
- 17 lbs. (without components)

FEATURES:
- Customized Foam Interior to Hold Components in Place During Transportation
- No Additional Packing Material Required to Keep Components Safe During Shipping
- Many Internal Configurations Available

ORDERING INFORMATION:
- **URG-2000-30LB** Holds (5) Quartz Annular Denuders, (3) 47mm Filter Packs and (3) Coupler Impactor/ Elutriator Assemblies
- **URG-2000-30LC** Holds (5) Quartz Annular Denuders and (2) Quartz Particulate Traps (Tekran #1135)
- **URG-2000-30LD** Holds (10) 242mm Length Annular Denuders and (10) 47mm Filter Packs



URG-2000-30LC



URG-2000-30LD

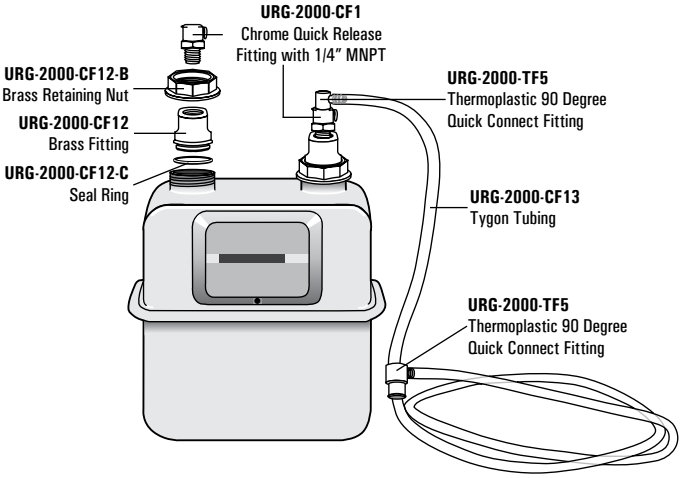
Dry Gas Meter

SPECIFICATIONS:
- Maximum Flow 42Lpm
- Minimum Flow 0.26Lpm
- Maximum Working Pressure 0.5 bar
- 7 1/2" x 7 1/2" x 5"
- 2 lbs.

FEATURES:
- Displays Flow in Liters
- Mechanically Counts Liters That Have Flowed Through the System
- Attaches to Either Side of a Sampling Pump
- Includes All Tubing and Quick Connect Fittings Required for Attaching to URG Sampling Systems



URG-3000-02C



URG-3000-02C Expanded View





Pumps







Single Channel Computerized Sampling Pump

SPECIFICATIONS:

- Adjustable Flow Rate from 2-20Lpm
- Linear Motion, High Efficiency Pump
- 7 Day Programmable Timer with Up to 12 On/Off Settings
- Volumetric Flow or Active Volumetric Flow
- Resetable Elapsed Timer
- Available as 115VAC or 220VAC
- Vacuum Gauge: 0-30" Hg/408" H_2O
- Resetable Fuses
- 18" x 14 1/2" x 11"
- 40 lbs.

FEATURES:

- Weather Resistant for Outdoor Use
- Includes 12VDC Outlet to Supply Power for Insulated Sampling Box
- Battery Backup for Timer
- Quiet, Low Pulsation
- Efficient, Clean and No Heat Build-Up
- Easily Serviced for Routine Maintenance



URG-3000-02BA
Differential Flow Regulator Maintains Flow Rate within 5% of Setpoint

ORDERING INFORMATION:

- **URG-3000-02BA -** Single Channel Computerized Sampling Pump with Volumetric Flow

- **URG-3000-02BAM -** Single Channel Computerized Sampling Pump with Active Volumetric Flow Control



URG-3000-02BAM
Flow Controller Electronically Maintains Flow Rate within 2% of Setpoint

Dual Channel Computerized Sampling Pump



URG-3000-02BB
Differential Flow Regulator Maintains
Flow Rate within 5% of Setpoint

SPECIFICATIONS:
- Adjustable Flow Rate from 2-20Lpm
- Linear Motion, High Efficiency Pump
- 7 Day Programmable Timer with Up to 12 On/Off Settings
- Volumetric Flow or Active Volumetric Flow
- 2 Resetable Elapsed Timers
- Available as 115VAC or 220VAC
- Vacuum Gauge: 0-30" Hg/408" H_2O
- Resetable Fuses
- 18" x 14 1/2" x 11"
- 40 lbs.

FEATURES:
- Operates 2 Sampling Systems Sequentially
- Weather Resistant for Outdoor Use
- Includes 12VDC Outlet to Supply Power for Insulated Sampling Box
- Battery Backup for Timer
- Quiet, Low Pulsation
- Efficient, Clean and No Heat Build-Up
- Easily Serviced for Routine Maintenance



URG-3000-02BBM
Flow Controller Electronically Maintains
Flow Rate within 2% of Setpoint

ORDERING INFORMATION:

- **URG-3000-02BB -** Dual Sequential Computerized Sampling Pump with Volumetric Flow

- **URG-3000-02BBM -** Dual Sequential Computerized Sampling Pump with Active Volumetric Flow Control

Dual Channel, Three Flows Computerized Sampling Pump

SPECIFICATIONS:

- Three Adjustable Flow Rates
  - 1-5Lpm
  - 2-20Lpm
  - 2-20Lpm
- Linear Motion, High Efficiency Pump
- 7 Day Programmable Timer with Up to 12 On/Off Settings
- Volumetric Flow or Active Volumetric Flow
- Two Resetable Elapsed Timers
- Available 115VAC or 220VAC
- Vacuum Gauge: 0-30" Hg/408" H_2O
- Resetable Fuses
- 32" x 18" x 15"
- 75 lbs.



URG-3000-02G
Rotometers Maintain Flow Rate within 5% of Setpoint

FEATURES:

- Operates 3 Channels on Versatile Air Pollutant Sampler (VAPS) Simultaneously
- Can Operate 2 VAPS Sampling Systems Sequentially
- Weather Resistant for Outdoor Use
- Includes 12VDC Outlet to Supply Power for Insulated Sampling Box
- Battery Backup for Timer
- Quiet, Low Pulsation
- Efficient, Clean and No Heat Build-Up
- Easily Serviced for Routine Maintenance



URG-3000-02N
Flow Controller Electronically Maintains Flow Rate within 2% of Setpoint

ORDERING INFORMATION:

- **URG-3000-02G -** Dual Channel, Three Flow Computerized Sampling Pump with Volumetric Flow

- **URG-3000-02N -** Dual Channel, Three Flow Computerized Sampling Pump with Active Volumetric Flow Control

Single Channel Indoor Computerized Sampling Pump



URG-3000-02Q
Differential Flow Regulator Maintains
Flow Rate within 5% of Setpoint



URG-3000-02QA
Flow Controller Electronically Maintains
Flow Rate within 2% of Setpoint

SPECIFICATIONS:
- Adjustable Flow Rate from 2-18Lpm
- Linear Motion, High Efficiency Pump
- 7 Day Programmable Timer with Up to 12 On/Off Settings
- Volumetric Flow or Active Volumetric Flow
- Resetable Elapsed Timer
- Available 115VAC or 220VAC
- Vacuum Gauge: 0-30" Hg/408" H_2O
- Resetable Fuses
- 8 1/4" x 8 1/4" x 16"
- 13 lbs.

FEATURES:
- Lightweight and Portable
- Quiet for Indoor Use
- Battery Backup for Timer
- Low Pulsation
- Efficient, Clean and No Heat Build-Up
- Easily Serviced for Routine Maintenance

ORDERING INFORMATION:

- **URG-3000-02Q -** Single Channel Indoor Computerized Sampling Pump with Volumetric Flow

- **URG-3000-02QA -** Single Channel Indoor Computerized Sampling Pump with Active Volumetric Flow Control

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