

Get Super-Clean!

Super-Clean Gas Filter & Base Plate Kit

FREE Base Plate

with purchase of 2 triple filters

See page 5 for details.



Save a Life

(and your budget too!)

Extend instrument lifetime and reduce downtime for repairs.

See page 5 for details.

Subscribe online! www.restek.com/essentials

What's New!

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Great Savings!

Rxi®-1ms, Rxi®-5 Sil MS	. 2
FREE Base Plate	. 5
Syringe Filters	. 9
FREE Tedlar Bags	12
Biphenyl LC Columns	13
\$500 OFF Hydrogen Generator	16



Rxi[®]-1ms

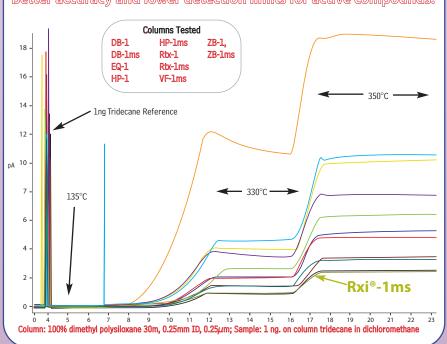
The Ultimate High Performance **Eused Silica Capillary Colum**

3 in 1! Inertness, Low Bleed, High Reproducibility

- Low bleed at high temperatures; improved signal to noise ratios.
- Excellent inertness for acids and bases; predictable column performance.
- Engineered to assure column-to-column reproducibility.

Offer valid through June 30, 2009





replace these similar phases

DB-1, DB-1ms, HP-1, HP-1ms, Ultra-1, SPB-1, Equity-1, ZB-1, ZB-1ms, VF-1ms, Rtx-1, Rtx-1ms

Rxi®-1ms Columns (fused silica)

(Crossbond® 100% dimethyl polysiloxane) temp, limits: -60 to 330/350°C

ID	df (µm)	length	cat. #
0.20mm	0.33	12-Meter	13397-R25
0.25mm	0.25	30-Meter	13323-R25
0.25mm	0.25	60-Meter	13326-R25
0.25mm	1.00	30-Meter	13353-R25
0.25mm	1.00	60-Meter	13356-R25
0.32mm	1.00	30-Meter	13354-R25
0.32mm	1.00	60-Meter	13357-R25
0.32mm	4.00	30-Meter	13396-R25

Visit www.restek.com/rxi for a complete listing of Restek's Rxi^o-1 ms columns.

More Savings!

xi°-5Sil MS

Exceptionally Inert Columns for GC/MS and Trace Level Analyses



Offer expires June 30, 2009

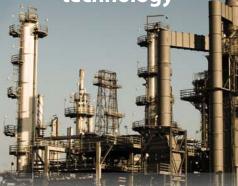
Porous Polymer PLOT Columns

Restek's New Stabilized PLOT Columns Minimize Particle Release

- Reproducible retention times.
- Virtually no spiking.
- · Longer column lifetimes.

Restek has developed new procedures to manufacture PLOT columns with concentric stabilized adsorption layers. The new generation PLOT columns show a constant flow behavior and have significantly improved mechanical stability, resulting in easier operation, better chromatography, and reduced particle release.





Rt®-Q-BOND Columns (fused silica PLOT)

100% divinylbenzene

ID	df (µm)	temp. limits	15-Meter	30-Meter
0.32mm	10	to 300/320°C	19743	19744
0.53mm	20	to 300/320°C	19741	19742

Rt®-QS-BOND Columns (fused silica PLOT)

porous divinyl benzene homopolymer

ID	df (µm)	temp. limits	15-Meter	30-Meter
0.32mm	10	to 250°C	19739	19740
0.53mm	20	to 250°C	19737	19738

Rt®-S-BOND Columns (fused silica PLOT)

divinylbenzene 4-vinylpyridine

ID	df (µm)	temp. limits	15-Meter	30-Meter
0.32mm	10	to 250°C	19747	19748
0.53mm	20	to 250°C	19745	19746

Rt®-U-BOND Columns (fused silica PLOT)

divinylbenzene ethylene glycol/dimethylacrylate

ID	df (µm)	temp. limits	15-Meter	30-Meter
0.32mm	10	to 190°C	19751	19752
0.53mm	20	to 190°C	19749	19750



Got Sulfur?

Sulfinert® treated sample cylinders

- Stable storage of sulfur and mercury at ppb levels
- Inert coating doesn't flake; more durable than Teflon®
- DOT rated to 1,800 or 5,000 psi.

www.restek.com/air

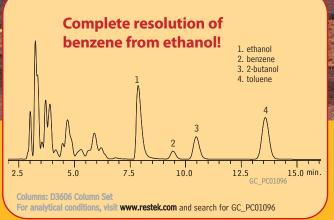
GC Columns



Resolve Benzene and Toluene in Spark Ignition Fuels Containing Ethanol

Use a Modified ASTM D3606-06e1 Method and D3606 Column Set!

- Complete resolution of benzene from ethanol no compromising coelutions.
- Fully conditioned column set—ready to use out of the box.
- Each set is tested for method applicability and includes chromatogram.



D3606 Application Column (2 column set)

Description	cat.#*	price
D3606 Application Column (2 column set)**		
Column 1: 6' (1.8m), 1/8" OD, 2.0mm ID, nonpolar Rtx-1		
Column 2: 16' (4.9m), 1/8" OD, 2.0mm ID, proprietary		
packing material	83606-	

*Please add column instrument configuration suffix number to cat.# when ordering.

**The column set is designed to accommodate both valve injection and/or syringe injection.

Column 1 is configured with a 2" inlet void to facilitate on-column injection. The inlet is identified on both column 1 and column 2. Note: The inlet of column 2 is identified for proper orientation for connection to the valve.

Lowest Bleed & Most Stable Bonded Carbowax® Column Available!



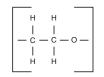
Stabilwax® Columns

(Crossbond® Carbowax® polyethylene glycol)

- Excellent inertness for active compounds.
- 260°C maximum operating temperature.

ID	df (µm)	temp. limits	length	cat. #	price
0.25mm	0.25	40 to 250/260°C	30-Meter	10623	
0.32mm	0.25	40 to 250/260°C	30-Meter	10624	
0.32mm	0.50	40 to 250/260°C	30-Meter	10639	
0.32mm	1.00	40 to 240/260°C	30-Meter	10654	
0.53mm	1.00	40 to 240/260°C	30-Meter	10655	

Stabilwax® Structure





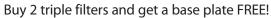
Visit www.restek.com for a complete listing of Stabilwax® Columns.



Super-Clean Gas Filter and Base Plate Kit

FREE Base Plate

with purchase of 2 triple filters



- Save over \$200.
- Restek filters provide 99.9999% pure gas.
- Quick connect fittings for easy, leak-tight filter changes.
- Traps measure $10^{5}/8$ " x $1^{3}/4$ " (27 x 4.4 cm).
- Base plate unit measures 4" x 4" x $1^{7}/_{8}$ " (10.2 x 10.2 x 4.8 cm).

Description	qty.	cat.#
Restek Exclusive Triple Filter Kit:		
includes 2 triple filters & free base plate	kit	22859-409

Offer valid through Dec. 31, 2009.

Cannot be combined with other offers or discounts.



Get Super-Clean!

For a complete listing of our Super-Clean Gas Filters and Base Plates, visit www.restek.com

Save a Life

(and your budget too!)

Extend instrument lifetime and reduce downtime for repairs.

Routine maintenance essentials from Restek help you:

- Save money with LC and GC maintenance kits.
- Save time with innovative tools.
- Repair instruments no longer supported by the manufacturer.
- OEM performance at a fraction of the cost.



Handy kits and tools available at www.restek.com/savealife



for Agilent GCs

		•				3 pac
Splitless Liners for Agilent GCs	Benefits/Uses	ID* OD x Length	Similar to Agilent part #	ea.	cat.#/price 5-pk.	25-pk.
Gooseneck Splitless (4mm)†	trace samples >2µL	4.0mm 6.5mm x 78.5mm	5181-3316 (ea.) 5183-4695 (5-pk)	20798	20799	20800
Gooseneck Splitless (4mm) w/Wool†	trace samples $>2\mu$ L	4.0mm 6.5mm x 78.5mm	5062-3587 (ea.) 5183-4693 (5-pk.) 5183-4694 (25-pk.)	22405	22406	22407
Split Liners for Agilent GCs	Benefits/Uses	ID* OD x Length	Similar to Agilent part#	ea.	cat.#/price 5-pk.	25-pk.
Imm Split w/Wool	universal, use with Agilent 7673 autosampler	4.0mm 6.3mm x 78.5mm	19251-60540 (ea.) 5183-4691 (5-pk.) 5183-4692 (25-pk.)	20781	20782	20783
Cup Splitter	high & low MW compounds	4.0mm 6.3mm x 78.5mm	18740-80190 (ea.) 5183-4699 (5-pk.)	20709	20710	_
Split/Splitless Liners for Agilent GCs	Benefits/Uses	ID* OD x Length	Similar to Agilent part #	ea.	cat.#/price 5-pk.	25-pk.
ow Pressure Drop Liner w/Wool	universal	4.0mm 6.3mm x 78.5mm	_	21032	21033	_
DI Liners for Agilent GCs** (For 0.25/0.32/0.53mm ID Columns)	Benefits/Uses	00	ID*) x Length	ea.	cat.#/price 5-pk.	25-pk.
rilled Uniliner (hole near top)	trace, active samples, high recovery & linearity		4.0mm m x 78.5mm	21054	21055	20998
rilled Uniliner (hole near bottom)	trace, active samples, high recovery & linearity		4.0mm m x 78.5mm	20756	20771	_
<u>Drilled Uniliner (hole near bottom)</u> *Nominal ID at syringe needle expulsion poin	t.					

*Nominal ID at syringe needle expulsion point.

All liners are 100% deactivated All liners are shipped intermediate polarity (IP) deactivated unless otherwise requested.

Don't see what you need?

Restek carries a complete line of instrument specific liners. Visit us online under GC Accessories to view our liners for Agilent, Shimadzu, PerkinElmer, Thermo Scientific, and Varian GCs.



FREE Poster!

Get your liner anatomy wall chart! Call Restek at 800-356-1688 to request your free poster today!

lit. cat.# GNWC1014

Visit **www.restek.com** for a complete listing of inlet liners available.

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GC Accessories

EZ Twist Top™

Split/Splitless Injection Port

for Agilent 7890 GCs

- Change inlet liners faster, easier, and eliminate touching hot surfaces.
- · Gas lines are attached to shell weldment bottom instead of the top.
- · Gas lines don't interfere with routine maintenance.
- Weldment Removal Tool allows for removal of hot weldment without fingers touching hot surfaces.
- · Weldment stays secure in the tool for reattachment.
- Eliminates kinked or broken gas lines.
- · Available for all Agilent GC models.





EZ Twist Top™ Split/Splitless Injection Port for Agilent 7890 GCs

Description	qty.	cat.#	price
Injection port assembly kit includes:			
shell weldment, 2 weldment O-rings, Siltek Dual Vespel Ring inlet seal, septum nut,			
reducing nut, stainless steel capillary nut and weldment tool	kit	22177	
Siltek injection port assembly kit includes:			
Siltek shell weldment, 2 weldment O-rings, Siltek Dual Vespel Ring inlet seal, septum nut,			
reducing nut, stainless steel capillary nut and weldment tool	kit	22178	

The EZ Twist Top™ and replacement parts are available for all Agilent Injection Ports. For more information, visit www.restek.com and search for EZ Twist Top™



Not available in Germany or Japan.

Dual Vespel® Ring Inlet Seals for Agilent GCs

Restek's patented Dual Vespel® Ring Inlet Seals offer a washerless, leak-tight seal and helps improve your inlet seal performance!

0.8mm ID Dual Vespel Ring Inlet Seal	2-pk./price	10-pk./price
Gold-Plated	21240	21241
Siltek Treated	21242	21243
Stainless Steel	21238	21239
1.2mm ID Dual Vespel Ring Inlet Seal	2-pk./price	10-pk./price
Gold-Plated	21246	21247
Siltek Treated	21248	21249
Stainless Steel	21244	21245
***************************************		21245



Visit wwww.restelk.com for all the features and benefits of this Restek innovation.



Ultra-High Purity (UHP) Gas Regulators

- Oxidation-resistant, chrome-plated.
- · Most stable outlet pressure control.
- Secondary pressure regulation not needed.

Dual-Stage Ultra-High Purity Chrome-Plated Brass Gas Regulators

Fitting	qty.	cat.#	price
CGA 580 (N ₂ He, Ar)	ea.	21667	
CGA 350 (H ₂ , P ₅)	ea.	21668	
CGA 590 (Air)	ea.	21669	

Dual-Stage Ultra-High Purity Stainless Steel Gas Regulators

Fitting	qty.	cat.#	price
CGA 580 (N ₂ , He, Ar)	ea.	20662	
CGA 350 (H ₂ , P ₅)	ea.	20663	
CGA 590 (Air)	ea.	20664	

0 to 4,000psig (0-27,579kPa) Inlet gauge: Outlet assembly: diaphragm valve, 1/4" tube fitting Outlet Pressure: 0 to 100psig (0-689kPa) Outlet Gauge: 30" - 0 to 200psig (0-1379kPa)

Single-Stage Ultra-High Purity Chrome-Plated Brass Gas Regulators

Fitting	qty.	cat.#	price
CGA 580 (N ₂ , He, Ar)	ea.	20646	
CGA 350 (H ₂ , P ₅)	ea.	20647	
CGA 590 (Air)	ea.	20648	

Single-Stage Ultra-High Purity Stainless Steel Gas Regulators

Fitting	qty.	cat.#	price
CGA 580 (N ₂ , He, Ar)	ea.	20665	
CGA 350 (H ₂ , P ₅)	ea.	20666	
CGA 590 (Air)	ea.	20667	



Visit www.restek.com for more information on Gas Regulators.



Cylinder Holders, **Wall Mounted**

Description	qty.	cat.#	price
Single Cylinder Holder, Wall Mounted	ea.	21333	
Double Cylinder Holder, Wall Mounted	ea.	23400	
Triple Cylinder Holder, Wall Mounted	ea.	23401	
Four Cylinder Holder, Wall Mounted	ea.	23402	



Swagelok® Brass Fittings Kit

Swagelok® Stainless Steel & Brass Fitting kits

40% Savings by purchasing kits!

Description	qty.	cat.#	price
Swagelok Brass Fitting Kit	kit	23141	
Description	qty.	cat.#	price

Restek now carries a complete line of Swagelok® fittings! For more information, visit us at www.restek.com



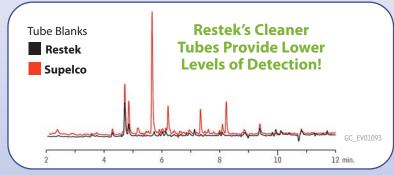
Sample Preparation



Validated Florisil® **Tubes for Pesticide** Sample Prep



- Tested for pesticide recovery and TCP breakthrough per EPA SW-846, Method 3620C.
- For large volumes, use 2g tube for greater savings and efficiency than two 1g tubes in series.



Florisil® Tubes

(EPA SW 846 methods and CLP protocols)

3mL/500mg	6mL/1000mg	15mL/2g
(50-pk.)	(100-pk.)	(100-pk.)
24031	26205	26228

Teflon® frits and glass tubes also available.

Sample **Collection Vessels**

for ASE® Systems

We listened!



- Great value and convenience in both clear and amber glass.
- · Precleaned, assembled and ready-to-use.
- Caps and Teflon®-lined septa included.
- 60mL and 250mL for ASE® 100/200/300 instruments.

Description	qty.	cat.#	price
250mL Collection Bottles, Clear Glass, for ASE 300/100	12-pk.	26191	
250mL Collection Bottles, Amber Glass, for ASE 300/100	12-pk.	26260	
Replacement Septa for 20, 40 & 60mL Vials and 250mL			
Bottles (24mm Teflon-lined 0.125" silicone septa)	100-pk.	24694	

www.restek.com/ASE

Syringe Filters with **Luer Lock Inlet**



Cut costs, not corners!

Top quality filters at lower costs than even the discounted prices of other manufacturers! Compare our quality with your current brand using our FREE no risk sample packs. Call today!

PTFE Purple Luer Lock Inlet 13mm, 0.22µm, 100pk

VWR	Fisher	Phenomenex	Restek
cat# 28145-491	09-720-7	AF0-2202-12	26142

Request lit. cat# GNFF1072 for a membrane selection guide and 12 reasons to buy Restek syringe filters.

Visit www.restek.com/filters for complete product listing.



Residual Solvents Reside Here!

We've got them on hand and ready to ship within 24 hours.

USP-Equivalent Standards

to Achieve USP <467> Compliance

Residual Solvents - Class 1

benzene	10mg/mL	1,1-dichloroethene	4
carbon tetrachlor	ride 20	1,1,1-trichloroethane	Ę
1,2-dichloroethar	ne 25		
In dimethyl sulfox		t to USP#1601102) (ea.)	

Residual Solvents Class 2 - Mix A

(15 components)

acetonitrile chlorobenzene	2.05mg/mL 1.80	methylcyclohexane methylene chloride	5.90 3.00
cyclohexane	19.40	tetrahydrofuran	3.45
cis-1,2-dichloroe		toluene	4.45
trans-1,2-dichlor		<i>m</i> -xylene	6.51
1,4-dioxane	1.90	<i>o</i> -xylene	0.98
ethylbenzene	1.84	<i>p</i> -xylene	1.52
methanol	15.00		

In dimethyl sulfoxide, 1mL/ampul

cat. # 36271 (equivalent to USP#1601281) (ea.)

Residual Solvents Class 2 - Mix B

(8 components)

1,2-dimethoxyethane 100 p.n-hexane (C6) 290 t	nitromethane 50 byridine 200 tetralin 100 crichloroethene 80
---	---

In dimethyl sulfoxide, 1mL/ampul

cat. # 36280 (equivalent to USP#1601292) (ea.)

Residual Solvents Class 2 - Mix C

(8 components)

In dimethyl sulfoxide, 1mL/ampul

cat. # 36273 (equivalent to USP#1601306) (ea.)

quantity discounts

Order 3 or 4 of any one analytical reference material product and receive a 10% discount!
Order 5 or more of any one analytical reference material product and receive a 20% discount!

Get more on RESIDUAL SOLVENTS at www.restek.com/ovi



New Lower Prices!



BENCHTOP OR LAPTOP?

Request your FREE 2009 Restek Product Catalog!

www.restek.com/catalog





Analytical Reference Materials

melamine?



Easily detect 1µg/g melamine with our complete kit for GC/MS

Melamine Analysis Kit.....cat. # 33254 (kit)

Kit includes:

- Rxi®-5Sil MS with 5 meter Integra Guard™ Column
- Standards
- Derivatization Reagent
- Accessory Tubes and Syringe Filters
- **Easy-to-Follow Instructions** with procedural check list to simplify laboratory documentation!

Save 10% when you buy as a kit

Keep up with advances in melamine analysis at www.restek.com/melamine



Free Data Packs available online! www.restek.com/datapacks

GET YOUR MIX

Time-Saving MegaMix® Environmental Reference Mixes.

- Largest number of target analytes in one mix, formulated for maximum stability.
- Available for US EPA methods 8260, 8270, 502.2, 524.2, 525.2, 624, 625, SOM01.1, OLC 03.2, OLM 04.2, Skinner List volatiles, Skinner List semivolatiles.

Save time, save effort, minimize potential for preparation problems—use MegaMix® reference mixes, only from Restek or authorized distributors.

www.restek.com/megamix



Air Monitoring

Simplify Air Sampling



Whether you're automated or manual, Restek's Canister Timer has the features you need!

- · Program up to 12 timed events!
- · Perfect for either grab or time-integrated sampling.
- · Long battery life; recharges conveniently using the USB port on any PC.
- · All stainless steel sample flow path ensures inertness, improving accuracy.

Description	qty.	cat.#	price
Canister Air Sampling Timer	ea.	24267	

2nd Source TO-14A/TO-15 Gas Calibration Standards

- Standards from TWO manufacturers provides second source standards on one order.
- 12 month stability in transportable cylinders.
- Drop shipped for fast delivery and maximum shelf life.



A. Spectra 104L **Cylinders**

B. Scotty 110L Cylinders (Pi-marked Cylinders for **EU Regulations**)



For more available gas standards, visit www. restek.com/air

Fill Tedlar® Bags without **Pump Contamination with** Vacuum Bag Sampler

- · Cost-effective alternative for whole air sampling.
- · Light weight and easy to use.
- Vacuum sampler fills bag quickly, without sample passing through pump.
- Large selection of Tedlar® bag sizes available, as well as stainless steel valve option.

Description	qty.	cat.#	list price
Bag Sampler/Tedlar Bag			
Includes Vacuum Bag Sampler Model 1062 and 10pk			
1L Tedlar Bags w/PP valve (22118 + 22050) Bag Sampler/Tedlar Bag	kit	22118-406.1	
Includes Vacuum Bag Sampler Model 1062 and 10pk			
10L Tedlar Bags w/PP valve (22118 + 22053)	kit	22118-406.2	



Offer valid through June 30, 2009.

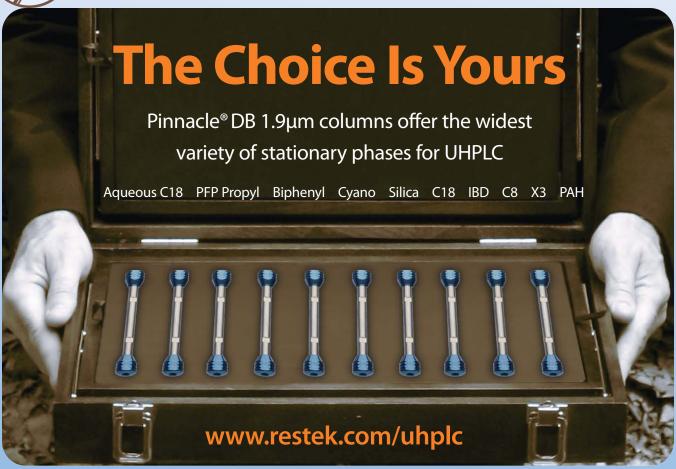
Get pack of













Economical Detector Lamps

Visit www.restek.com/LCLamps for a complete listing of lamps for:

- Agilent HPLC Systems
- Beckman HPLC Systems
- Hitachi HPLC Systems
- PerkinElmer Instruments
- Shimadzu HPLC Systems
- Waters Detectors



Mobile Phase Management 101



Description	qty.	cat.#	price
Hub-Cap (assembly of the bottle cap and plug)	kit	26541	
Hub-Cap Multi-pack	3-pk.	26542	

Reduce Solvent Waste with the Last Drop Filter

Use Restek's Last Drop Filter to draw 98% of the mobile phase without drawing air into the system.
Conventional methods usually leave 10% of your mobile phase behind which directly affects your productivity and costs.



Hub-Cap Filter Kit

Transfer and filter mobile phase in a single step!

Kit includes: bottle adapter, bottle adapter nut, filter inlet cap, grid support, vacuum hose barb, tube compression fitting, 47mm grid, 47mm 0.22 μ m filter membrane, 47mm 0.45 μ m filter membrane, 1/4" OD x 1/8" ID ultra chemical resistant, Teflon® FEP lined Tygon® tubing (3'), 6" x 6" box with shrink wrap insert.

Description	qty.	cat.#	price
Hub-Cap Filter Kit	kit	26395	
Replacement Membrane Filters	qty.	cat.#	price
Polypropylene Membrane Filters, 47mm, 0.45µm	100-pk.	26396	
Polypropylene Membrane Filters, 47mm, 0.22 μ m	100-pk.	26397	
Nylon Membrane Filters, 47mm, 0.45 μ m	100-pk.	26398	
Nylon Membrane Filters, 47mm, 0.22µm	100-pk.	26399	

Avoid messy pooling around mobile phase waste containers with our

Waste Overflow Indicator for HPLC Systems

 Audible alarm instantly alerts user, preventing overflow.

Compact, battery-operated unit.
 The new Restek Waste Overflow Indicator will help to keep your mobile phase waste where it belongs—in the waste container!



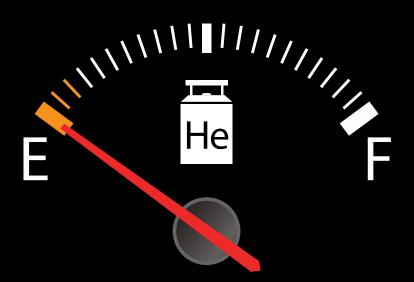
Description	qty.	cat.#	price	
Waste Overflow Indicator for HPLC Systems	kit	26543		
Replacement AA Battery for the				
Waste Overflow Indicator	ea.	26544		
Replacement AA Batteries for the				
Waste Overflow Indicator	3-pk.	26545		

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GAS SHORTAGE?

Switch to Hydrogen: Safe, Renewable, and Dependable



Receive
\$500 off
a Hydrogen Generator
Visit restek.com/outofgas
for details.

did you know?

Hydrogen generators are:

- Reliable sources of 99.9995% pure hydrogen.
- Simple to use and cost-effective; just supply water!
- Engineered for safety: built-in sensor shuts down generator if a leak is detected, on-demand production means smaller stored quantities.

Pays for itself in less than two years!



www.restek.com/outofgas



Lit. Cat.# GNES1132
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