

2019-2020 PRODUCT CATALOG



Zefon

INTERNATIONAL

The Professionals Choice for Air Sampling Equipment

SAMPLING PUMPS & CALIBRATORS



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Zefon® Bio-Pump® Plus

The **Zefon® Bio-Pump® Plus** is the smallest, lightest and easiest to use portable, battery-powered IAQ pumps designed for exclusive use with Air-O-Cell® and Via-Cell® cassettes at a flow rate of 15 LPM.

Features:

- Battery Powered
- Quiet Operation
- Real Time Display Showing Actual Run Time
- Programmable Sample Time (allows unattended operation)
- "Sample Complete" Audible & Visual Indicators
- "Quick Sample" Operation
- Long Lasting NiMH Battery provides approx 8 hours continuous run time or approx 100 5-minute samples
- Battery Recharge Time of only 3 Hours
- Small Size: 4.5"(w) x 2.75"(h) x 8"(d)
11.43 cm (w) x 6.99 cm (h) x 20.34cm (d)
- Light Weight: Only 1.5 lbs (0.68kg)

The **Zefon® Bio-Pump Plus** is not only the most advanced, user friendly pump designed for IAQ, but they are a great value. Each pump includes extra items such as 10 FREE Air-O-Cell® cassettes, an Air-O-Cell® flow indicator, battery charger, and carrying case as standard items. This amounts to over \$100 savings when compared to other manufacturers.



ZBP-205-CKIT



ZBP-PROKIT-PLUS

PRODUCT	DESCRIPTION	PRICE
ZBP-205	Zefon® Bio-Pump® Plus with 110-230V Charger with North American Plug	\$749.00
ZBP-PROKIT-PLUS	Zefon® Bio-Pump® Plus Kit with Accessories	\$840.00
ZBP-205-CKIT	Zefon® Bio-Pump® Plus with TSI 4046 Calibrator Kit	\$2200.00

Bio-Pump® Plus Accessories



Bio-Pump with Bioisolation filter



Bio-Pump with remote extension tube



Bio-Pump on Tripod Stand

PRODUCT	DESCRIPTION	PRICE
ZBP-300	Battery, Bio-Pump®, ZBP-100, or ZBP-200	\$72.00
ZBP-315	Battery, Bio-Pump®, ZBP-205	\$72.00
ZBP-304	Charger, Bio-Pump®	\$54.00
ZBP-310	Remote Extension Tube, Bio-Pump®	\$35.00
ZA0047	Bioisolation Filter, Bio-Pump®	\$12.80
ZA0043	Tripod Stand - Heavy Duty	\$42.00

Bio-Pump® Plus Calibration Options

Calibration Traceable to NIST

For traceable calibration, **Zefon®** offers a TSI flow calibrator with all connectors and tools needed for proper calibration. This electronic flow calibrator is designed to work correctly with backpressure sensitive pumps such as the Bio-Pump Plus.

Flow Indicator

Each Bio-Pump Plus includes an Air-O-Cell flow indicator for calibration. Simply place the flow indicator on the pump, enter calibration mode and adjust the flow rate until the ball lines up with the 15 LPM line.



ZBP-302 Flow Indicator



Bio-Pump connected to a TSI Flow Calibrator

PRODUCT	DESCRIPTION	PRICE
ZBP-302	Flow Indicator, Air-O-Cell®	\$48.00
ZBP-305	Flow Indicator, Via-Cell®/Air-O-Cell® CSI	\$48.00
ZBP-200-CAL	TSI 4046 Flow Calibrator Kit for Zefon® Bio-Pump® Plus	\$1450.00

Zefon® Z-Lite™ IAQ DC Powered Sampling Pump

The Zefon® Z-Lite™ IAQ DC Powered Sampling Pump is a battery powered portable pump designed for IAQ sampling with low backpressure sampling devices such as spore traps at flow rates from 2-20 LPM.

Features:

- Easy to use built-in timer
- Built-in adjustable flow meter
- Quick reset to 5 minute Run Time
- Flow Range: 5-20 LPM (low backpressure spore traps, such as Air-O-Cell®);
2-8 LPM (carpet sampling cassettes)
- Suitable for use on low backpressure sampling devices such as spore traps and for carpet sampling.
- Runs approximately 2.5-3 hours per battery charge
- Charger may be used to run the pump on AC Power
- HEPA Filtered Exhaust
- Low Battery Indicator
- 36" Telescoping sampling stand can be removed and stored inside the case.
- Quick disconnect tubing connection
- Housing Dimensions - 15" L x 9" W x 10.5" H (38cm x 23cm x 27cm)
- Weight - 18.8lbs (8.5kg) (including charger and sampling stand)
- One year warranty



PRODUCT	DESCRIPTION	PRICE
Z-LITE-IAQ-DC	Zefon® Z-Lite™ IAQ DC Powered Sampling Pump	\$730.00
03270	Replacement Male Quick Disconnect	\$4.80
03265	Replacement Battery for Z-LITE-IAQ-DC	\$68.00
03883	Replacement Battery Charger for 100-240 VAC, North American Plug	\$68.00

Note: Not suitable for filter cassette sampling.

Zefon® Z-Lite IAQ Sampling Pump



The **Zefon® Z-Lite™** IAQ linear pump is a small lightweight pump capable of flows up to 30 LPM. Suitable for use with carpet samplers, Air-O-Cell®, Via-Cell® and all viable impactors (e.g. Andersen style impactor).

Pump comes complete with flowrate indicator, flow control valve, on/off switch and tubing.

Note: Not suitable for filter cassette sampling.

PRODUCT	DESCRIPTION	PRICE
Z-LITE-IAQ	Zefon® Z-Lite™ IAQ High Volume Linear Pump, 120V	\$195.00
03752	Flow Meter, 5-30LPM, Z-LITE-IAQ Replacement	\$45.00

IAQ Pump Bioisolation Filters



ZA0045



ZA0047

Reduce cross contamination concerns!

No longer will you ever have to ponder the “what if” scenario of cross contamination from one job to the next. **Zefon®** bioisolation filters are designed to prevent pump contamination during sampling from particles not collected by spore trap or agar impactors. Each filter may be used over and over until it has collected enough debris to affect pump performance or becomes visibly contaminated. Each filter provides an amazing 99.9999% efficiency in reducing cross contamination!

PRODUCT	DESCRIPTION	PRICE
ZA0045	Bioisolation filter for diaphragm, linear and rotary vane pumps 99.99% efficient in reducing cross-contamination	\$8.00
ZA0047	Bioisolation filter for the Zefon® Bio-Pump® and Bio-Pump® Plus 99.9999% efficient in reducing cross-contamination	\$12.80

Gilian® BDX II Abatement Sampling Pump

The Gilian® BDX II Abatement Air Sampler from Sensidyne® is a dependable, low cost personal sampling pump. It is a “no frills” model designed for use with asbestos and lead sampling. Meets NIOSH 7400, 7082, 7105 and 7300 specifications.

Features:

- “No Frills model”
- Designed for Asbestos/Lead abatement
- Flow rates - 500-3,000 cc/min (0.5-3 LPM)
- Rechargeable battery pack system
- Built-in rotameter & flow adjust
- Compact, lightweight & quiet
- Full one-year warranty



BDXII 5 Pack Deluxe Kit
801863-171ZKIT5



BDX II Abatement Sampler Kit
GIL-801863-171-1201

PRODUCT	DESCRIPTION	PRICE
GIL-801863-171-1201	BDXII Abatement Sampler Kit, NiMH Includes pump, battery, charger, tool kit, tubing, clip assembly and manual.	\$278.00
GIL-801863-171-KIT	BDXII Abatement Sampler 5 Pack Kit, NiMH Includes 5 pumps, 5 batteries, 5 single chargers, 5 tool kits, 5 tubing sets, 5 clip assemblies, 5 manuals and a toolbox style carrying case.	\$1399.00
801863-171ZKIT5	BDXII Abatement Sampler 5 Pack Deluxe Kit, NiMH Includes 5 pumps, 5 batteries, Zefon® 5 station charger, 5 tool kits, 5 tubing sets, 5 clip assemblies, 5 manuals and a toolbox style carrying case.	\$1549.00
GIL-801863-171-KIT5	BDXII Abatement Sampler 5 Pack Deluxe Kit, NiMH Includes 5 pumps, 5 batteries, Gilian 5 Station Charger, 5 tool kits, 5 tubing sets, 5 clip assemblies, 5 manuals and a toolbox style carrying case.	\$1749.00
GIL-783-0008-04	Battery Pack, NiMH	\$100.00
GIL-911-0601-US-R	Single Battery Charger, 120V	\$88.00

Gilian products are not available for shipment outside the USA.

BUCK Libra™ Abatement Sampling Pump



The Buck Libra™ is a low cost, high performance, CONSTANT FLOW personal sampling pump. Suitable for use in asbestos abatement, lead sampling and industrial hygiene sampling. Designed for use with asbestos and lead abatement, the LIBRA provides full constant flow compensation using 25mm and 37mm cassettes.

Features:

- Flow rates - 0.8-4 LPM
- Constant Flow
- Rechargeable NiMH battery
- Built-in washable stainless steel filter
- Compact, lightweight & quiet
- Full one-year warranty

BUCK
A.P. BUCK, INC.



APB-942600 Shown

PRODUCT	DESCRIPTION	PRICE
APB-926000	Buck Libra™ Sampling Pump, 120V Includes pump, 120V charger, luer adapter, 36" tubing, shirt/hose clip and manual	\$330.00
APB-942600	Buck Libra™ Sampling Pump 5 Pack Kit Includes 5 each pumps, 5 luer adapters, 5 36" tubing sets, 5 shirt/hose clips, five manuals, one 120VAC Quick 5 Charger and carrying case	\$2350.00

Accessories including the low flow tube holders and fast charging option are listed on pages 74 & 75.

Personal Sampling Pumps for Industrial Hygiene

Personal Sampling Pumps are worn by workers during the work shift to determine exposure to ambient particulates, gases or vapors. They draw a carefully controlled volume of air and contaminants through collection media over a period of time. Media is then sent out to a laboratory for analysis, resulting in a calculated level of exposure.

Each of the pumps listed in the chart below represent the ultimate in reliability, quality and value. This is why *Zefon*® is a trusted supply source for many industrial hygienists and safety professionals.

PUMP	FLOW RANGE	PROGRAMMABLE	ATMOSPHERIC PRESSURE COMPENSATION	TEMPERATURE COMPENSATION	BACKPRESSURE COMPENSATION	INTRINSICALLY SAFE	PUMP	PAGE
LOW FLOW	1 to 350 cc	No	No	No	Up to 25" H ₂ O at 200cc	CSA & Atex	LFS-113	73
	100 to 600 cc	No	No	No	Up to 36" H ₂ O at 200cc	No	Libra Plus LP-1	63
	5 to 600cc	Yes	No	No	Up to 25" H ₂ O at 200cc	No	Elite 1	62
	5 to 600cc	No	No	No	Up to 25" H ₂ O at 200cc	UL	Allin 1	61
	5 to 600cc	Yes	Yes	Yes	Up to 25" H ₂ O at 200cc	UL	Allin Plus 1	61
	200 to 800cc	Yes	No	No	Up to 80" H ₂ O at 200cc	FM & Atex	Gilian 800i	72
MEDIUM FLOW	0.5 to 3 LPM	No	Yes	Yes	Up to 30" H ₂ O at 2 LPM	UL & Atex	Escort ELF	64
	0.5 to 3 LPM	No	No	No	Up to 25" H ₂ O at 2 LPM	UL	Escort LC	65
	0.75 to 3 LPM	Optional	No	No	Up to 15" H ₂ O at 2.5 LPM	UL	GilAir-3	66
MEDIUM-HIGH-FLOW	0.75 to 5 LPM	Optional	No	No	Up to 23" H ₂ O at 3 LPM	UL	GilAir-5	67
	0.75 to 5 LPM	Yes	No	No	Up to 60" H ₂ O at 2 LPM	FM	Gilian 5000	68
	0.2 to 5 LPM	Yes	Optional	Optional	Up to 30" H ₂ O at 2 LPM	FM & Atex	GilAir Plus	69
	0.5 to 5 LPM	No	No	No	Up to 50" H ₂ O at 2 LPM	No	Libra Plus LP-5	63
	0.5 to 5 LPM	Yes	No	No	Up to 50" H ₂ O at 2 LPM	No	Elite 5	62
	0.5 to 5 LPM	No	No	No	Up to 50" H ₂ O at 2 LPM	UL	Allin 5	61
	0.5 to 5 LPM	Yes	Yes	Yes	Up to 50" H ₂ O at 2 LPM	UL	Allin Plus 5	61
HIGH FLOW	4 to 10 LPM	Yes	No	No	Up to 14" H ₂ O at 10 LPM	FM & Atex	Gilian 10i	70
	3 to 12 LPM	No	No	No	Up to 12" H ₂ O at 10 LPM	No	Libra Plus LP-12	63
	3 to 12 LPM	Yes	No	No	Up to 12" H ₂ O at 10 LPM	No	Elite 12	62
	3 to 12 LPM	No	No	No	Up to 12" H ₂ O at 10 LPM	UL	Allin 12	61
	3 to 12 LPM	Yes	Yes	Yes	Up to 12" H ₂ O at 10 LPM	UL	Allin Plus 12	61
	4 to 12 LPM	Yes	No	No	Up to 23" H ₂ O at 10 LPM	No	Gilian 12	71

BUCK Allin™ Series Personal Sampling Pumps

The BUCK Allin™ Series are personal air sampling pumps suitable for use in locations where flammable gases, vapors, dust, or are present. It has steel fiber filled housing for RFI/EMI shielding, exclusive electronic circuit board for constant flow control, an LCD display with 2 lines of 16 characters, a single diaphragm pump mechanism, and a rechargeable NiMH battery pack.

Features:

- Flow Range:
 - Allin-1: 100-600 cc/min
(5-99cc/min with low flow tube holder, APB-109033)
 - Allin-5: 0.8-5.0 LPM
(5-800cc/min with low flow tube holder, APB-109030)
 - Allin-12: 3-12 LPM
- Backpressure Compensation:
 - Allin-1: Up to 25" H₂O at 200 cc/min
 - Allin-5: Up to 50" H₂O at 2 LPM
 - Allin-12: Up to 12" H₂O at 10 LPM
- Displays: elapsed time, accumulated volume and flow rate
- Accuracy +/- 5% of display reading
- "Auto-restart" within one minute of a Flow Fault
- Plus Models Additionally Include:
 - Datalogging: Record flow rate, elapsed clock time, accumulated volume, temperature, DP and any Flow Faults
 - Programmable for multiple start/stop times and duration.
 - Temperature and barometric pressure flow compensation
- Stainless steel belt clip with built-in tripod connector
- One year warranty
- Intrinsically Safe (UL US & Canada)



BUCK
A.P. BUCK, INC.

Allin™ Plus Ordering Information

Allin™ Pump Ordering Information

PRODUCT	DESCRIPTION	PRICE
APB-905000	Buck Allin™ 1 Includes pump, 120V Charger, tubing/clip assembly, non-adjustable tube holder (109032), 3' of tubing & manual.	\$745.00
APB-905050	Buck Allin™ 1 - 5 Pack Kit Includes 5 pumps, Quick 5 charger, 5 tubing/clip assemblies, 5 tubing sets, 5 non-adjustable tube holders (109032), 5 manuals and carrying case.	\$3975.00
APB-905200	Buck Allin™ 5 Includes pump, 120V Charger, tubing/clip assembly, 3' of tubing & manual.	\$745.00
APB-905250	Buck Allin™ 5 - 5 Pack Kit Includes 5 pumps, Quick 5 charger, 5 tubing/clip assemblies, 5 tubing sets, 5 manuals and carrying case.	\$3975.00
APB-905400	Buck Allin™ 12 Includes pump, 120V Charger, tubing/clip assembly, 3' of tubing & manual.	\$1195.00

PRODUCT	DESCRIPTION	PRICE
APB-905100	Buck Allin™ Plus 1 Includes pump, 120V Charger, tubing/clip assembly, adjustable tube holder (109033), 3' of tubing & manual.	\$845.00
APB-905150	Buck Allin™ Plus 1 - 5 Pack Kit Includes 5 pumps, Quick 5 charger, 5 tubing/clip assemblies, 5 tubing sets, 5 adjustable tube holders (109033), 5 manuals and carrying case.	\$4475.00
APB-905300	Buck Allin™ Plus 5 Includes pump, 120V Charger, tubing/clip assembly, adjustable tube hold (109030), 3' of tubing & manual.	\$895.00
APB-905340	Buck Allin™ Plus 5 - 5 Pack Kit Includes 5 pumps, Quick 5 charger, 5 tubing/clip assemblies, 5 tubing sets, 5 adjustable tube holders (109030), 5 manuals and carrying case.	\$4995.00
APB-905500	Buck Allin™ Plus 12 Includes pump, 120V Charger, tubing/clip assembly, adjustable tube hold (109030), 3' of tubing & manual.	\$1295.00
APB-109101	Buck PC Link Software Package	\$175.00

BUCK Elite™ Series Personal Sampling Pumps

The BUCK Elite™ is an advanced data logging, programmable personal air sampling pump. It features an easy to use programmable timer for delayed start/stop run with the capability for up to ten different ON/OFF duration cycles with repeat options. The optional PC Link Elite software connection capability lets you easily program the pump with just a few clicks and download the sampling data into a PC equipped with RS232 communications port.

Features:

- Datalogging: Record flow rate, elapsed clock time, accumulated volume, temperature, DP and any Flow Faults
- Programmable for multiple start/stop times and duration.
- Displays: elapsed time, accumulated volume and flow rate
- Flow Range:
 - Elite-1: 100-600 cc/min
(5-99cc/min with low flow tube holder, APB-109033)
 - Elite-5: 0.8-5.0 LPM
(5-800cc/min with low flow tube holder, 109030)
 - Elite-12: 3-12 LPM
- Backpressure Compensation:
 - Elite-1: Up to 25" H₂O at 200 cc/min
 - Elite-5: Up to 50" H₂O at 2 LPM
 - Elite-12: Up to 12" H₂O at 10 LPM
- Accuracy +/- 5% of display reading
- "Auto-restart" within one minute of a Flow Fault
- No tools required to change flow rates.
- Built-in washable stainless steel inlet filter.
- Flow Compensation for filter plugging and battery voltage
- Stainless steel belt clip with built-in tripod connector
- High impact Lexan case, antistatic and RFI shielded.
- Key pad lock system
- One year warranty
- CE Approved



BUCK
A.P. BUCK, INC.

PRODUCT	DESCRIPTION	PRICE
APB-908100	Buck Elite™-1 Includes pump, 120V Charger, tubing/clip assembly, non-adjustable tube holder (109032), 3' of tubing & manual.	\$800.00
APB-947300	Buck Elite™-1 5 Pack Kit Includes 5 pumps, Quick 5 charger, 5 tubing/clip assemblies, 5 tubing sets, 5 non-adjustable tube holders (109032), 5 manuals and carrying case.	\$4695.00
APB-908000	Buck Elite™-5 Includes pump, 120V Charger, tubing/clip assembly, 3' of tubing & manual.	\$775.00
APB-947200	Buck Elite™-5 5 Pack Kit Includes 5 pumps, Quick 5 charger, 5 tubing/clip assemblies, 5 tubing sets, 5 manuals and carrying case.	\$4550.00
APB-908300	Buck Elite™-12 Includes pump, 120V Charger, tubing/clip assembly, 3' of tubing & manual.	\$1250.00
APB-109101	Buck PC Link Software Package	\$175.00

BUCK Libra™ Plus Series Personal Sampling Pumps

The BUCK Libra Plus™ series pumps feature an LCD display showing flow rate, elapsed time and accumulated volume of the sample. The easy to use keypad provides for tool-less operation while providing a keypad lock feature. Advanced circuitry allows for long sampling times on a single charge of the NiMH batteries.



BUCK
A.P. BUCK, INC.

Features:

- Flow Range:
 - LP-1: 100-600 cc/min
(5-99cc/min with optional low flow tube holder, APB-109033)
 - LP-5: 0.8-5.0 LPM
(5-800cc/min with optional low flow tube holder, APB-109030)
 - LP-12: 3-12 LPM
- Backpressure Compensation:
 - LP-1: Up to 25" H₂O at 200 cc/min
 - LP-5: Up to 50" H₂O at 2 LPM
 - LP-12: Up to 12" H₂O at 10 LPM
- Accuracy +/- 5% of display reading
- "Auto-restart" within one minute of a Flow Fault
- Displays: elapsed time, accumulated volume and flow rate
- No tools required to change flow rates.
- Built-in washable stainless steel inlet filter.
- Flow Compensation for filter plugging and battery voltage
- Compact, rugged and quiet
- Stainless steel belt clip with built-in tripod connector
- High impact Lexan case, antistatic and RFI shielded.
- Key pad lock system
- One year warranty
- CE Approved

PRODUCT	DESCRIPTION	PRICE
APB-906800	Buck Libra Plus™ LP-1 Includes pump, 120V Charger, tubing/clip assembly, non-adjustable tube holder (109032), 3' of tubing & manual.	\$660.00
APB-946500	Buck Libra Plus™ LP-1 5 Pack Kit Includes 5 pumps, Quick 5 charger, 5 tubing/clip assemblies, 5 tubing sets, 5 non-adjustable tube holders (109032), 5 manuals and carrying case.	\$3995.00
APB-906200	Buck Libra Plus™ LP-5 Includes pump, 120V Charger, tubing/clip assembly, 3' of tubing & manual.	\$660.00
APB-946200	Buck Libra Plus™ LP-5 5 Pack Kit Includes 5 pumps, Quick 5 charger, 5 tubing/clip assemblies, 5 tubing sets, 5 manuals and carrying case.	\$3995.00
APB-906250	Buck Libra Plus™ LP-12 Includes pump, 120V Charger, tubing/clip assembly, 3' of tubing & manual.	\$1115.00

Zefon® Escort ELF® Sampling Pump

- New NiMH Battery Pack provides approximately 20% more operating time between charges
- Flow Range: .5-3.0 LPM
- Patented "Laminar Flow" control with temperature and pressure compensation permits the best accuracy in the business
- Internal secondary standard calibrates the pump continuously, maintaining OSHA compliance
- Check against a flow calibrator traceable to NIST only once a month (every 200 hours for MSHA coal mine dust sampling)
- Inlet filter traps moisture and particulate matter
- Stainless steel-filled plastic case provides EMI/RFI
- Lightweight – only 19oz
- Resolution display is .1lpm in standard mode, .01lpm in calibration mode
- "Key Pad" design allows adjustment of flow rates without tools or a potentiometer
- Tamper-resistant door restricts access to adjustment "Key Pad"
- Rated IP65 for resistance to water and dust ingress
- Flow-Fault Indicator shows any sample inlet blockage
- Run/Hold feature allows "time out" during sampling process
- Elapsed time readout and low-battery warning
- Low flow and dual tube sampling available with Gemini Twin-Port Sampler
- 2 Year Warranty



**New
NiMH Battery
Packs!**



**Shown with Optional Protective
Leather Holster/Case with
Belt Loop (# 811741)**



Approvals

Escort ELF Sampling Pumps are UL approved as intrinsically safe for use in hazardous locations – Class I, Groups A, B, C, D; Class II, Groups E, F, and G; and Class III, Division I locations. NIOSH certified for coal mine dust sampling (TC-74-030). MSHA certified as intrinsically safe for underground use (Approval No. 2G-3924-1). Pennsylvania DEP, BFE6-11. ATEX Approved Models Available.

Single Pump Kits

PRODUCT	DESCRIPTION	PRICE
805558	Escort ELF® Pump with sampling line. No charger.	\$896.00
805560	Escort ELF® Pump with 120V charger and sampling line.	\$976.00
805559	Escort ELF® Pump with 120V charger, Gemini® Twin Port Sampler.	\$1190.00

5-Pack Pump Kits

PRODUCT	DESCRIPTION	PRICE
805563	Escort ELF® Pump with 5 station 120/240V, 50/60Hz charger and sampling line.	\$4960.00
711396	Escort ELF® Pump with 5 station 120/240V, 50/50Hz charger and Gemini® Twin Port Sampler.	\$6030.00

Zefon® Escort® LC Sampling Pump



- New NiMH Battery Pack provides approximately 20% more operating time between charges
- Flow Range: .5-3.0 LPM
- Watertight case withstands occasional water spray
- Inlet filter traps particulate matter; optional filter to trap moisture
- Stainless steel-filled plastic case for RFI/EMI
- One-way valve allows pump exhaust to vent and to prevent water entry
- Weighs only 18 ounces
- Minimum 12 hours of operation before charging is necessary
- Two controls - an ON/OFF key and a flow-rate potentiometer behind tamper-resistant cover helps to prevent unauthorized access to control functions
- Separate LEDs indicate pump operation and low battery
- Charging jack port is located on the battery pack allowing it to be charged while both attached and detached from pump
- Exceptionally quiet operation
- Intrinsically safe
- 2 Year Warranty

Approvals and Standards

Escort LC Sampling Pumps are classified by UL as intrinsically safe for use in hazardous locations – Class I, Groups A, B, C and D; Class II, Groups E, F and G; and Class III, Division I locations.

Single Pump Kits

PRODUCT	DESCRIPTION	PRICE
P1-ESLC-0-1-0-0	Escort® LC Pump with sampling line. No charger.	\$570.00
711400	Escort® LC Pump with 120V charger and sampling line.	\$650.00

5-Pack Pump Kits

PRODUCT	DESCRIPTION	PRICE
P5-ESLC-5-1-0-0	Escort® LC Pump with 5 station 120/240V charger and sampling line.	\$3330.00

Escort ELF and LC Accessories

PRODUCT	DESCRIPTION	PRICE
456226	Sampling Line, 36" Length	\$26.00
10087242	Battery Pack, NiMH	\$280.00
811741	Protective Leather Holster/Case	\$71.00
494716	Single Battery Charger, 120V	\$90.00
495965	Single Battery Charger, 230V	\$96.00
801759	Five Pump Battery Charger, 120/240V	\$520.00
802897	Inlet Water Stop Filter	\$26.00
808935	Inlet Dust Filters, Pack of 5	\$5.00
456243	Cyclone for Mining Cassettes	\$270.00
10044015	Cyclone for 37mm IH Cassettes	\$270.00
497697	Gemini® Sorbent Tube Sampler	\$250.00

Gilian® GilAir-3 Sampling Pump

The Gilian® GilAir-3 Constant Flow Sampling Pump provides industrial hygienists and safety managers with a dynamic air sampling system operating at a flow rate of 1-3,000 cc/min. This comprehensive 3-in-1 sampler performs filter cassette and single and multiple sorbent tube sampling with constant flow accuracy, while offering convenient programmable timing options.

Features:

- Constant flow: 750-3,000 cc/min
- Low flow: 1-750 cc/min
- Rechargeable battery pack system
- Built-in rotameter & flow adjust
- Programmable LCD clock timer (optional)
- Instant-fault function
- Compact, lightweight, & quiet
- UL listed intrinsically safe
- MSHA, CE & SIRA approved
- Full one-year warranty
- Multiple sorbent tube capability

SENSIDYNE®
Industrial Health & Safety Instrumentation



PRODUCT	DESCRIPTION	OPTIONS	PRICE
GIL-800485-171-1201	GilAir-3R Sampling Pump Starter Kit, 120V Charger	Standard Pump	\$670.00
GIL-800508-171-1201	Includes pump, charger, Air Boss Kit, Tool Kit, Tubing, Cassette Holder Kit and manual.	Pump with Clock	\$820.00
GIL-800510-171-1201		Programmable Pump	\$920.00
GIL-800485-171-1205	GilAir-3R 5 Pack Sampling Pump Kit	Standard Pump	\$3680.00
GIL-800508-171-1205	Includes 5 pumps, universal 5 station charger, 5 Air Boss Kits, 5 Tool Kits, 5 Tubing Sets, 5 Cassette Holder Kits, manuals and carrying case.	Pump with Clock	\$4380.00
GIL-800510-171-1205		Programmable Pump	\$4900.00
GIL-783-0008-03	Battery Pack, NiMH		\$195.00
GIL-911-9901-US-R	Single Battery Charger, 120V		\$95.00

Gilian products are not available for shipment outside the USA.

GilAir 3 & 5 Accessories



#800320-1



#800518

PRODUCT	DESCRIPTION	PRICE
GIL-201050	Inlet Filter Replacement, GilAir-3 & 5, BDX II	\$7.00
GIL-800320-1	Air Boss Restrictor Kit, GilAir 3 & 5, BDX II	\$18.00
GIL-800518	Low Flow Module, Constant Flow, GilAir 3 & 5	\$146.00
GIL-800519	Low Flow Module, Multi Flow, GilAir 3 & 5	\$134.00
GIL-800556	Pump Filter Kit, GilAir 3 & 5 (includes 3 filters, 3 large and small o-rings, screw)	\$25.00

Gilian® GilAir-5 Sampling Pump



The Gilian® GilAir-5 Constant Flow Sampling Pump provides industrial hygienists and safety managers with a dynamic air sampling system operating at a flow rate of 1-5000 cc/min. This comprehensive 3-in-1 sampler performs filter cassette and single/multiple sorbent tube sampling with constant flow accuracy, while offering convenient programmable timing options.

External Filter Housing

Clear External filter housing allows an immediate visual inspection of filter's condition.

Flow Fault & Test Indicators

Flow Fault indicator lights up if unit operates outside $\pm 5\%$ of set flow rate. Battery Test indicator lights up when battery can provide a minimum of 8 hours of operation over operating range.

Basic, Clock, & Programable Models

Basic model is easy to use. Clock model provides elapsed-time clock display. Programable model provides auto start-stop and delayed start times up to 9999 mins.

Optional Low Flow Modules

Constant Low Flow module allows sampling from 5-500 cc/min. Constant Pressure (Multiflow) Module allows sampling from 1-750 cc/min.

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Features:

- Constant flow: 750-5,000 cc/min
- Low flow: 1-750 cc/min
- Rechargeable battery pack system
- Built-in rotameter & flow adjust
- Instant-fault function
- Compact, lightweight, & quiet
- UL listed intrinsically safe
- MSHA, CE & SIRA approved
- Full one-year warranty
- Programmable LCD clock timer (optional)



PRODUCT	DESCRIPTION	OPTIONS	PRICE
GIL-800883-171-1201	GilAir-5R Sampling Pump Kit, 120V Charger	Standard Pump	\$750.00
GIL-800885-171-1201	Includes pump, charger, Air Boss Kit, Tool Kit, Tubing, Cassette Holder Kit and manual.	Pump with Clock	\$890.00
GIL-800884-171-1201		Programmable Pump	\$1010.00
GIL-800883-171-1205	GilAir-5R5 Pack Sampling Pump Kit	Standard Pump	\$4000.00
GIL-800885-171-1205	Includes 5 pumps, universal 5 station charger, 5 Air Boss Kits, 5 Tool Kits, 5 Tubing Sets, 5 Cassette Holder Kits, manuals and carrying case.	Pump with Clock	\$4700.00
GIL-800884-171-1205		Programmable Pump	\$5350.00
GIL-783-0009-02	Battery Pack, NiMH		\$235.00
GIL-911-9901-US-R	Single Battery Charger, 120V		\$95.00

Gilian products are not available for shipment outside the USA.

Gilian® 5000 Personal Air Sampling Pump

A powerful workhorse with flow rates up to 5 LPM.

The Gilian® 5000 is a 5 liter flow personal sampling pump featuring a flow range of 20 to 5000cc, high back pressure ability (up to 70" H₂O back pressure at 1 LPM), an easy to use interface and memory free NiMH batteries.



Features:

- **Live Flow Display**
Large display continuously shows real-time flow, total sample time, and total volume sampled.
- **Flow Range of 800cc-5000cc**
25-800cc requires additional low flow adapter.
- **High Backpressure Ability**
Up to 70" H₂O at 1 LPM
Up to 60" H₂O at 2 LPM
- **Intuitive Operation with Lock-Out Feature**
- **Programmable Functionality**
Allows scheduled sampling or intermittent cycles, delayed start and up to 4 program stages with repeat cycling.
- **30-Day Calibration**
Automatically compensates for changes in flow rate, pressure and temperature.
- **Intrinsically Safe**
Certified for use in explosive environments.
- **NiMH Memory-Free Battery**
Fast recharge time of 4 hours.

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PRODUCT	DESCRIPTION	PRICE
GIL-910-0802-01	Gilian® 5000 Personal Air Sampling Pump Starter Kit with 120V Charger	\$900.00
GIL-910-0801-01	Gilian® 5000 Personal Air Sampling Pump 5 Pack Kit, 120V Includes 5 pumps, 5 station charger, 5 Air Boss kits, 5 tool kits, 5 tubing sets, 5 cassette holder kits, manuals and carrying case.	\$4700.00
GIL-783-0007-01	Battery Pack, NiMH	\$256.00
GIL-811-0802-01	Single Battery Charger, 120V	\$122.00
GIL-811-0801-01	Gilian® 5000 5 Station Charger	\$780.00
GIL-801961	Low Flow Adapter, 25-750cc	\$107.00
GIL-811-0012-01	Inlet Filter Replacement Kit, 10/pk	\$22.00

Gilian products are not available for shipment outside the USA.

GilAir® PLUS Personal Air Sampling Pump

QuadModeSM Air Sampling Technology

GilAir Plus® features a full 1-5000 cc/min flow range without using external adapters. Easily change flow modes between high-flow constant pressure and constant flow (450-5,000 cc/min) and low-flow constant pressure and constant flow (1-499 cc/min). It's like getting two pumps in one.

Selectable Automatic Fault Recovery Pump automatically attempts restart to recover from temporary fault conditions.

Temperature & Pressure Compensation Pump operates in selectable ambient or standard mode correcting for temperature and barometric pressure when equipped with STP option.

Superior Design & Comfort

One-third smaller than traditional personal air sampling pumps, light-weight, quiet, with a large backlit display.

Bluetooth Connectivity

- Remotely monitor an air sampling pump up to 5 meters away
- No disturbance of the worker
- Stay in unrestricted areas while workers are in restricted areas
- No need to suit up



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Real-time Clock with Data-logging

An optional computer interface for uploading program information or downloading time stamped data-logs through the docking station.

PRODUCT	DESCRIPTION	OPTIONS	PRICE
GIL-910-0901-US-R	GilAir® Plus Personal Sampling Pump Kit Pump kit includes: 1 air sampling pump, standard charging dock with power adapter, filter cassette holder, charcoal tube holder, and a user manual on electronic media. Data Logging & STP models include a communication enabled charging dock and Gilian Pump Management software.	Basic Model	\$999.00
GIL-910-0902-US-R		Datalogging Model	\$1075.00
GIL-910-0903-US-R		STP Model	\$1296.00
GIL-910-0904-US-R	GilAir® Plus 5 Pack Kit Pump kits include: 5 air sampling pumps, a five-station charging dock with power adapter, 5 filter cassette holders, 5 charcoal tube holders, and a user manual on electronic media. Data Logging models include a communication enabled charging dock and Gilian Pump Management software.	Basic Model	\$5298.00
GIL-910-0905-US-R		Datalogging Model	\$5370.00
GIL-910-0906-US-R		STP Model	\$6445.00

Accessories

PRODUCT	DESCRIPTION	PRICE
GIL-811-0913-01-R	Bag Fill Adapter	\$6.00
GIL-811-0905-01-R	Inlet Filter, 10/pk	\$12.00
GIL-783-0012-01-R	Battery Pack, NiMH	\$155.00
GIL-783-0013-01-R	Battery Pack, AA Alkaline	\$137.00
GIL-811-0901-US-R	Charging Dock, Single Station	\$191.00
GIL-811-0902-US-R	Charging Dock, 5 Station	\$814.00
GIL-811-0903-US-R	Charging & Communication Dock, Single Station	\$262.00
GIL-811-0904-US-R	Charging & Communication Dock, 5 Station	\$853.00
GIL-780-0015-01-R	SmartCal Cable for Gilian Gilibrator	\$102.00
GIL-780-0015-02-R	SmartCal Cable for Gilian Challenger	\$84.00
GIL-780-0015-03-R	SmartCal Cable for TSI Calibrator	\$89.00
GIL-780-0015-04-R	SmartCal Cable for Bios Defender	\$85.00

Gilian products are not available for shipment outside the USA.

Gilian® 10i High Flow Personal Air Sampling Pump

The Gilian® 10i is a high flow rate sampling pump capable of flow rates as high as 10 LPM in a small personal sampling pump size. It offers user programmability for easy, flexible preprogrammed sampling schedules, long battery life, intrinsically safe hazardous area certification in all zones and gases, and fast charge capability.



Features:

- **High Flow Capability**
The high flow capability of the Gilian 10i enables sampling capability for applications with flow rates between 5LPM and 10 LPM.
- **Small Size & Weight**
The Gilian 10i is the smallest high flow (above 5 LPM) personal sampling pump in the industry at a size of 3.2W x 5.4H x 2.3D inches and weight of 20.5 oz.
- **Highest Backpressure Ability**
Up to 14" H₂O backpressure at 10 LPM – the highest in the industry at 10 LPM for an intrinsically safe personal sampling pump.
- **NiMH Memory-Free Battery**
NiMH battery with quick-charge time in under 4 hours eliminates shipping and disposal issues prevalent with lithium ion batteries.
- **Programmable Functionality**
Four stage program with repeat cycling allows scheduled sampling or intermittent duty cycles along with programmable delayed start.
- **Intuitive Operation with Lock-out Feature**
Simple four-button design makes the pump easier to understand and operate.
- **Live Flow Display**
Large display continuously shows real-time flow, total sample time and total volume sampled.
- **Intrinsically Safe Certified**
Intrinsically Safe for use in explosive environments.

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PRODUCT	DESCRIPTION	PRICE
GIL-910-1501-US	Gilian® 10i Sampling Pump Starter Kit with 120V charger	\$1400.00
GIL-910-1505-US	Gilian® 10i Sampling Pump 5 Pack Kit, 120V	\$7050.00
GIL-811-0802-01	Gilian® Single Station Charger, 120V	\$122.00
GIL-811-0801-01	Gilian® 5 Station Charger	\$780.00
GIL-783-0007-01	Battery Pack, NiMH	\$256.00

Gilian products are not available for shipment outside the USA.

The Professionals Choice for Air Sampling Equipment

Gilian® 12 High Flow Personal Air Sampling Pump

The Gilian® 12 is a high flow rate sampling pump capable of flow rates between 4LPM and 12 LPM. It offers user programmability for easy, flexible preprogrammed sampling schedules, small size and weight, intrinsically safe hazardous area certification in all zones and gases, and long battery life with fast charge capability.

Features:

- Higher Flow Applications
Flow Range 4 to 12 LPM
- Exceptional Flow Compensation
Up to 23" H₂O backpressure at 10 LPM – the highest flow compensation available from any personal sampling pump in the industry.
- Small Size & Weight
The Gilian® 12 is the smallest high flow (above 5 LPM) personal sampling pump in the industry at a size of 3.2W x 5.4H x 2.3D inches and weight of 20.5 oz.
- NiMH Memory-Free Battery
NiMH battery with quick-charge time in under 4 hours. Eliminates shipping and disposal issues.
- Programmable Functionality
Four stage program with repeat cycling allows scheduled sampling or intermittent duty cycles along with programmable delayed start.
- Intuitive Operation with Lock-out Feature
Simple four-button design makes the pump easier to understand and operate.
- Live Flow Display
Large display continuously shows real-time flow, total sample time and total volume sampled. Special flow control circuitry automatically compensates for changes in flow rate, back-pressure and temperature.



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PRODUCT	DESCRIPTION	PRICE
GIL-910-1601-US	Gilian® 12 Personal Air Sampling Pump with 120V Charger	\$1550.00
GIL-910-1605-US	Gilian® 12 Personal Sampling pump 5 Pack Kit, 120V	\$7600.00
GIL-811-0802-01	Gilian® Single Station Charger, 120V	\$122.00
GIL-811-0801-01	Gilian® 5 Station Charger	\$780.00
GIL-783-0018-01	Battery Pack	\$256.00

Gilian products are not available for shipment outside the USA.

Gilian® 800i Powerful Low Flow Personal Air Sampling Pump

Gilian® 800i is a powerful personal air sampling pump targeting applications requiring a 200 to 800 cc/min flow range and backpressures up to 80 inches H₂O. Gilian 800i is an ideal solution for VOC monitoring applications using thermal desorption tubes, including modified versions of NIOSH method 2549 and EPA TO-17 at higher flow rates for improved sensitivities.



Features:

- **Low Flow Range**
Flow Range 200-800 cc/min
- **Exceptional Flow Compensation**
Up to 80" H₂O backpressure at 200cc/min
- **Ideal for EPA VOC's Monitoring**
Back pressure and flow range well suited for EPA method monitoring of volatile organic compounds.
- **NiMH Memory-Free Battery**
NiMH battery with quick-charge time in under 4 hours. Eliminates shipping and disposal issues.
- **Programmable Functionality**
Four stage program with repeat cycling allows scheduled sampling or intermittent duty cycles along with programmable delayed start.
- **Intuitive Operation with Lock-out Feature**
Simple four-button design makes the pump easier to understand and operate.
- **Live Flow Display**
Large display continuously shows real-time flow, total sample time and total volume sampled. Special flow control circuitry automatically compensates for changes in flow rate, back pressure and temperature.
- **Intrinsically Safe Certified**
Certified Intrinsically Safe for use in hazardous environments.

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PRODUCT	DESCRIPTION	PRICE
GIL-910-1301-US	Gilian® 800i Personal Air Sampling Pump Starter Kit with 120V Charger	\$1200.00
GIL-910-1305-US	Gilian® 800i Personal Air Sampling Pump 5 Pack Kit, 120V	\$5900.00
GIL-811-0802-01	Single Battery Charger, 120V	\$122.00
GIL-811-0801-01	Gilian® 5 Station Charger	\$780.00
GIL-783-0007-01	Battery Pack, NiMH	\$256.00

Gilian products are not available for shipment outside the USA.

Gilian® LFS-113 Air Sampling System

The Gilian® LFS-113 Air Sampling System is a comprehensive function, dual-mode air sampler offering constant low flows of 1-200 cc/min and multi-tube flow rates of 1 to 350 cc/min.

Features:

- Elapsed time clock
- Multi-tube sampling capability
- Suction and discharge sampling
- Instant-fault functions
- Built-in sorbent tube end breaker
- Battery check LEDs
- Rechargeable Battery Pack System
- Compact, slips into a shirt pocket



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Battery Pack
#GIL-783-0003-01



PRODUCT	DESCRIPTION	OPTIONS	PRICE
GIL-910-0301-01 GIL-910-0303-01	Gilian® LFS-113 Sampling Pump Starter Kit, 120V Charger Includes pump, charger, Air Boss Kit, Tool Kit, Tubing, Tube Holder Kit and manual.	Standard Pump Pump with Clock	\$800.00 \$920.00
GIL-910-0302-01 GIL-910-0304-01	Gilian® LFS-113 5 Pack Sampling Pump Kit, 120V Includes 5 pumps, universal 5 station charger, 5 Air Boss Kits, 5 Tool Kits, 5 Tubing Sets, 5 Tube Holder Kits, manuals and carrying case.	Standard Pump Pump with Clock	\$4250.00 \$4800.00
GIL-783-0003-01	Battery Pack, NiMH		\$206.00
GIL-911-0301-US-R	Single Battery Charger, 120V		\$95.00
GIL-811-0302-45	5 Station Charger, Gilian LFS		\$499.00
GIL-800681-1	Tube Breaker Kit		\$25.00
GIL-800093-3	Inlet Filter Replacement Kit, 3/pk		\$34.00
GIL-800685	Air Boss Restrictor Kit (required for bag sampling)		\$18.00
GIL-800149	Single Sorbent Tube Holder for LFS-113, 6mm x 70mm		\$50.00

Gilian products are not available for shipment outside the USA.

Personal Pump Accessories



Tygon® Tubing, 1/4" ID
#ZA0064



36" Sampling Line
with Tube Clip #456226



Universal Cassette or
Cyclone Holder #ZA0061



Metal Luer Adapter
#459743



37mm Cassette Tubing
Adapters #ZA0005



Gemini® Twin Port Sorbent Tube
Sampler #497697



Sorbent Tube Holder
#APB-109030

Sample Tubing

PRODUCT	DESCRIPTION	PRICE
ZA0065	Sample Line, PVC, 1/4" ID x 3/8" OD x 36" Length	\$15.00
456226	Sample Line, PVC, 1/4" ID x 3/8" OD x 36" Length with Tube Clip	\$26.00
ZA0064	Sample Line, PVC, 1/4" ID x 3/8" OD x 50' Length	\$95.00

Cassette Holders & Adapters

PRODUCT	DESCRIPTION	PRICE
ZA0061	Universal Cassette/Cyclone Holder	\$30.00
GIL-800143	Filter Cassette Holder Kit, Gilian®	\$37.00
ZA0005	Luer Adapter, Plastic, 10/pk (attaches cassette to 1/4" ID tubing)	\$7.40
459743	Luer Adapter, Metal, 3/pk (attaches cassette to 1/4" ID tubing)	\$21.00

Sorbent Tube Holders

PRODUCT	DESCRIPTION	PRICE
APB-109032	Single tube holder with non-adjustable flow	\$40.00
APB-109033	Single tube holder with adjustable flow (5-100cc)	\$65.00
APB-109030	Single tube holder with adjustable flow (5-800cc)	\$65.00
497697	Gemini® Twin Port Sampler	\$250.00

Personal Pump Batteries & Chargers

PRODUCT	DESCRIPTION	OPTIONS	PRICE
GIL-783-0008-04	NiMH Battery		\$100.00
GIL-911-0601-US	Single Battery Charger, 120V	BDX II	\$88.00
GIL-811-9919-US	Gilian® 5 Station Charger (formerly 850069)		\$499.00
APB-109029	NiMH Standard Battery, USB Mini B Connector		\$165.00
APB-129031	NiMH Triple Battery, USB Mini B Connector	Libra, Libra Plus, & Elite	\$265.00
APB-603940	Single Charger, USB Mini B, 120V		\$70.00
APB-605850	5 Station Charger, USB Mini B, 120-240V		\$520.00
GIL-783-0008-03	NiMH Battery-GilAir-3		\$195.00
GIL-783-0009-02	NiMH Battery-GilAir-5		\$235.00
GIL-911-9901-US-R	Single Battery Charger, 120V	GilAir-3 & 5	\$95.00
GIL-811-9919-US	Gilian® 5 Station Charger (formerly 850069)		\$499.00
GIL-783-0007-01	NiMH Battery, Gilian® 5000, 10i, 800i		\$256.00
GIL-783-0018-01	NiMH Battery, Gilian® 12	Gilian 5000, 10i, 800i, & 12	\$256.00
GIL-811-0802-01	Single Battery Charger, 120V		\$122.00
GIL-811-0801-01	5 Station Charger		\$780.00
GIL-783-0012-01-R	NiMH Battery		\$155.00
GIL-783-0013-01-R	AA Alkaline Battery Option		\$137.00
GIL-811-0901-US-R	Charging Dock, Single, 120V	GilAir Plus	\$191.00
GIL-811-0902-US-R	Charging Dock, 5 Station		\$814.00
GIL-811-0903-US-R	Charge/Comm Dock, Single, 120V		\$262.00
GIL-811-0904-US-R	Charge/Comm Dock, 5 Station		\$853.00
GIL-783-0003-01	NiMH Battery		\$206.00
GIL-911-0301-US-R	Single Battery Charger, 120V	LFS-113	\$95.00
GIL-811-0302-US	5 Station Charger (formerly 400324)		\$499.00
10087242	NiMH Battery		\$280.00
494716	Single Battery Charger, 120V	Escort ELF & LC	\$90.00
801759	5 Pump Charger		\$520.00



Gilian® Single Battery Charger



Escort® ELF & LC Single Battery Charger



Escort® ELF & LC NiMH Battery



Gilian® BDX II Pump Battery



Gilian® GilAir-5 Battery



Gilian® 5 Station Charger



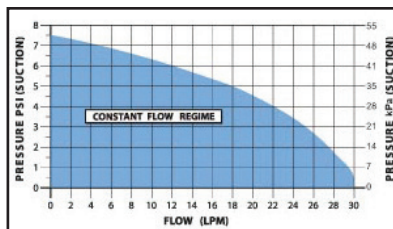
Escort® ELF & LC 5 Pump Charger

Gilian® Aircon-2 Programmable Battery Powered Pump

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The Gilian® AirCon-2 sampler is a powerful 2 to 30 LPM constant flow sampler with DC powered portability and programmable timing options. It is ideal for asbestos background and clearance sampling, following NIOSH, OSHA, or EPA methodology, and for ambient dust monitoring. It comes with an adjustable tripod mast and connecting hose to hold the filter cassette at the proper height and isolate the filter from the vibration of the unit. Each pump ships complete with tubing, removable AC line cord, independent sampling mast, and manual.



AirCon-2 Samplers offer constant flow capability, over their entire 2 to 30 LPM flow range, at back pressures up to 7 psi (48 kPa). Flow is controlled within $\pm 5\%$ of the set point.

Extended Flow Range

2-30 LPM flow range designed for collecting particulates in a given plant area.

Fully Programmable

Can be programmed with up to three custom timing routines for unattended sampling up to 99 hours.

Touchpad & LCD Display

Allows easy programming of sampling starts and stops, delays, holds, and number of cycles.

Instant Fault Function

When in fault mode unit stops sampling run and locks in time. "FAULT" appears on display to alert operator.

Instant Pressure Check

Back pressure load can be checked on LCD display by pressing a single button.

Note: The Aircon-2 sampler does not include a power module or battery pack. It must be ordered separately. If using the sampler for AC operation, only the power module is needed. If using the sampler for DC operation, both the power module and battery pack are needed.



PRODUCT	DESCRIPTION	PRICE
GIL-801012-100	Aircon-2 DC Programmable High Volume Sampler	\$2420.00
GIL-801000-2	Aircon-2 Power Module, 120V/230V/DC, with 120V US Cord	\$634.00
GIL-801001	Battery Pack, 4 Hour	\$495.00

Gilian products are not available for shipment outside the USA.

Zefon® Diaphragm Area Sampling Pumps

Zefon® diaphragm area sampling pumps are economical and reliable workhorses. Each pump comes with a locking flow control valve, hose barb, tubing and on/off switch. Suitable for use with PCM, TEM, Air-O-Cell® and Via-Cell® cassettes.



PRODUCT	DESCRIPTION	PRICE
ZTHV01	Zefon® High Volume Diaphragm Pump, 120V	\$195.00
ZTHV01-KIT	Zefon® High Volume Diaphragm 2 Pump Kit, 120V Includes 2 Pumps, 2 Stands, Tubing and Case	\$520.00
ZTHV00-KCASE	Carrying Case for ZTHV01 Pumps Holds 2 ZTHV01 Pumps, 2 Stands, and Tubing	\$100.00

Rotary Vane Sampling Pumps

High volume rotary vane pumps are heavy duty workhorses with a 1/10 hp motor that can be used for most all sampling applications. Each pump comes complete with flow control valve, on/off switch and tubing. Suitable for use with PCM, TEM, Air-O-Cell® and Via-Cell® cassettes along with all viable impactors (e.g. Andersen style impactor).



PRODUCT	DESCRIPTION	PRICE
ZHV00	Rotary Vane High Volume Pump, 120V	\$250.00
ZHV00-KIT	Rotary Vane High Volume 2 Pump Kit, 120V Includes 2 Pumps, 2 Stands, Tubing and Case	\$620.00
ZHV00-KCASE	Carrying Case for ZHV00 Pumps Holds 2 ZHV00 Pumps, 2 Stands, and Tubing	\$100.00

Area Pump Replacement Parts



For **Zefon®** Diaphragm Pumps

PRODUCT	DESCRIPTION	PRICE
03113	Air Flow Regulator Valve, 1/8"	\$12.00
03180	1/8" to 1/4" Conversion Fitting	\$2.20
03200	Hose Barb, 1/4"	\$3.00
03184	Rubber Foot for Diaphragm Pumps	\$2.00
03179	Muffler for Diaphragm Pump	\$4.80

For Rotary Vane Pumps

PRODUCT	DESCRIPTION	PRICE
03113	Air Flow Regulator Valve, 1/8"	\$12.00
03200	Hose Barb, 1/4"	\$3.00
03201	Rubber Foot for ZHV00 Pump	\$1.90
AL-9800-52	Exhaust Filter for ZHV00 Pump	\$4.00
ZGHV01	Glass Muffler Jar for ZHV00 Pump	\$6.00
AA928	Felt Filters for ZHV00 Pump	\$3.00

Area Pump Accessories



PRODUCT	DESCRIPTION	PRICE
ZA0042	Economy Cassette Sampling Stand	\$32.00
ASB-1	Deluxe Cassette Sampling Stand	\$46.00
ZA0064	Tygon® Tubing, E-3603, 1/4 ID x 3/8 OD x 50' Roll	\$95.00
3010-0252	Tubing, PVC, 1/4" Area Pump Sampling	\$0.70/ft
ZA0005	Plastic Luer Adapter, 10/pk (use to attach cassette to 1/4" ID tubing)	\$7.40
459743	Metal Luer Adapter, 3/pk (use to attach cassette to 1/4" ID tubing)	\$21.00

Zefon® DigiCal™ Flow Calibrator

The DigiCal™ Flow Calibrator provides instantaneous calibration for instruments like the *Zefon® Escort®* LC Pump or the secondary flow standard inside the Escort ELF® Sampling Pumps.

Just press the plunger and the DigiCal Calibrator does the work. Its unique flow cell replaces conventional bubble tubes and makes calibration easier. The DigiCal Calibrator achieves extreme accuracy by utilizing a computerized flow meter that provides instantaneous flow readouts on a digital display. Accurate measurements are possible within $\pm 0.5\%$ at any altitude.

Features:

- Compact, lightweight, easy to use
- Work at any altitude without correction
- Instant readout of volumetric flow
- $\pm 0.5\%$ accuracy
- Microprocessor controlled to provide fast, accurate, repeatable measurements
- Two flow ranges to choose from:
 - 1-6000cc/min (DigiCal-5)
 - 0.1-30 LPM (DigiCal-30)



Each DigiCal Calibrator is shipped complete with calibrator, charger, soap solution, dispenser bottle and operation manual.

DigiCal shown here in an optional Pelican 1400 case.

PRODUCT	DESCRIPTION	PRICE
655101	DigiCal™ 5 Calibrator, 110V, (1-6000cc/min)	\$1100.00
655201	DigiCal™ 5 Calibrator, 230V (1-6000cc/min)	\$1100.00
655130	DigiCal™ 30 Calibrator, 110V (0.1-30LPM)	\$1150.00
655230	DigiCal™ 30 Calibrator, 230V (0.1-30LPM)	\$1150.00
655102	Air Inlet Caps for DigiCal, Pk of 2	\$17.00
655112	Charger/AC Adaptor for DigiCal, 110V	\$87.00
655273	Soap Bubble Solution, 8oz	\$34.00
655169	Battery Pack for DigiCal™	\$118.00
ZA0122	Pelican 1400 Carrying Case with Pick-N-Pluck Foam	\$120.00

Gilian® Gilibrator 3 Air Flow Calibrators

The Sensidyne Gilian Gilibrator 3 is the most advanced dry calibrator on the market, designed to provide performance, reliability, and ease-of-use. The Gilibrator 3 truly sets the standard for calibration integrity and data reporting. The Gilibrator 3 is an air flow calibrator by NIOSH definition, and delivers NIST traceability through Sensidyne's ISO 17025 accredited laboratory.

Features:

- StablFlow™ provides constant low back pressure to device being calibrated.
- Patent pending pulse-free valve technology maintains calibration integrity.
- Touch screen color display that is visible in direct light, and user defined fields for maintaining sample integrity.
- Multiple flow cells with a common base adds convenience and saves cost.
- Gilian CONNECT PC compatible for data retrieval, record keeping, and statistical analysis of data.
- SmartCal™ capable with GilAir Plus® pumps
- Fast and easy to use dry calibrator.
- Quick disconnect fittings allow for easy flow cell exchange.
- Can be configured to meet the user's calibration needs. The user may select between Continuous or Averaging modes.
- Live, instantaneous flow measurement, accurate within 1% of reading.
- Generates printable calibration reports and can store 100 timestamped calibration events in its on-board memory.



PRODUCT	DESCRIPTION	PRICE
GIL-811-1707-01-R	Gilibrator 3 Calibrator, Base Only	\$1425.00
GIL-811-1709-01-R	Gilibrator 3 Cell Assembly, Standard Flow	\$725.00
GIL-811-1708-01-R	Gilibrator 3 Cell Assembly, Low Flow	\$764.00
GIL-811-1710-01-R	Gilibrator 3 Cell Assembly, High Flow	\$798.00
GIL-910-1709-US-R	Gilibrator 3 Calibrator Base Pack, Std Flow	\$1698.00
GIL-910-1708-US-R	Gilibrator 3 Calibrator Base Pack, Low Flow	\$1698.00
GIL-910-1710-US-R	Gilibrator 3 Calibrator Base Pack, High Flow	\$3365.00
GIL-910-1701-US-R	Gilibrator 3 Calibrator, Deluxe Kit	\$3365.00
GIL-910-1703-US-R	Gilibrator 3 Calibrator Kit with Case, Std Flow	\$1990.00
GIL-910-1706-US-R	Gilibrator 3 Calibrator Kit with Case, Std/High Flow	\$2765.00
GIL-910-1702-US-R	Gilibrator 3 Calibrator Kit with Case, Low Flow	\$1990.00
GIL-910-1705-US-R	Gilibrator 3 Calibrator Kit with Case, Low/Std Flow	\$2765.00
GIL-910-1707-US-R	Gilibrator 3 Calibrator Kit with Case, Low/High	\$2765.00
GIL-910-1704-US-R	Gilibrator 3 Calibrator Kit with Case, High Flow	\$1990.00
GIL-615-1701-01-R	Gilibrator 3 Carrying Case	\$325.00

Gilian products are not available for shipment outside the USA.

Gilian® Gilibrator 2 Calibrators



The Gilibrator 2 System provides a convenient, accurate and highly automated method to check air sampling pumps for proper air flow function. It is available with interchangeable Wet Cells for low, standard, or high flow ranges. Wet Cells generate a perfect bubble film, and infrared technology “calculates” flow rate data for LCD display. Printer and PC interface options are available. Accurate to 1% of reading with wet cells.

Features:

- Easy Set-up and Operation
- Field Portable
- Low Maintenance
- Alphanumeric Display
- Built-in RS-232 Port
- Auto Averaging of readings
- Battery or AC operation

SENSIDYNE®
Industrial Health & Safety Instrumentation



PRODUCT	DESCRIPTION	PRICE
GIL-800271	Gilibrator 2 Standard Flow Kit, 20cc-6LPM	\$1417.00
GIL-800270	Gilibrator 2 High Flow Kit, 2-30 LPM	\$1572.00
GIL-800272	Gilibrator 2 Low Flow Kit, 1-250cc	\$1440.00
GIL-800267-1	Low Flow Cell Assembly	\$540.00
GIL-800266-1	Standard Flow Cell Assembly	\$500.00
GIL-800265-1	High Flow Cell Assembly	\$660.00
GIL-800274	Printer Module with paper charger and cable	\$875.00
GIL-400681	Replacement Printer Paper, 5 rolls	\$109.00
GIL-811-0501-01	Flow Monitoring Software Kit	\$131.00
GIL-911-0501-US-R	Gilibrator 2 Charger, 120V	\$95.00
GIL-800450	Flow Cell Soap, 8oz	\$41.00
GIL-700560	Battery Pack	\$78.00

Gilian products are not available for shipment outside the USA.

TSI Flow Pump Calibrators

The TSI Calibrators are portable, battery-operated units that are lightweight, easy to use and accurate within 2% of reading. Volumetric flow rate is displayed continuously so adjustments to pump flow can be made in real-time.

Features:

- Provides continuous real-time volumetric flow rate readings, so pump adjustment and calibration is fast and easy
- Field portable—use the same calibrator for adjustment, calibration and periodic flow checks
- Battery powered, compact and lightweight
- 2 Flow ranges to select from:
 - **Model 4146** - 0.01-20 LPM
 - **Model 4046** (ZBP-200-CAL) - 2.5-300 LPM
- Comes with a NIST traceable calibration certificate
- Kits come complete and are ready to use



TSI-4046

PRODUCT	DESCRIPTION	PRICE
TSI-4146	TSI Flow Calibrator 0.01-20 LPM	\$1350.00
ZBP-200-CAL	TSI 4046 Flow Calibrator kit for Zefon® Bio-Pump® Plus Includes 4046 calibrator, all connection pieces required to connect to the Zefon® Bio-Pump or Bio-Pump Plus and a Pelican hard side carrying case.	\$1500.00
ZA0120	Pelican™ 1200 Carrying Case with Pick-N-Pluck Foam (Holds one model TSI 4146 Calibrator)	\$65.00

Each TSI Flow calibrator is shipped complete with the following: Calibrator, Battery pack including 6-AA size alkaline batteries, Tubing kit, carrying case, NIST traceable calibration certificate, and user guide.

Rotameters - Dwyer Visi-Float Flow Meters



Dwyer Visi-Float flowmeters are precision machined from solid, clear acrylic plastic blocks. This construction not only produces an attractive finish, but permits complete visual inspection.

Features:

- Scales are easy to read — The large 4" high front scale location and white background provide excellent visibility.
- Scales are hot stamped into the plastic and will not wear off.
- Mid-range calibration is established with a master flowmeter, providing an accuracy of 3%.
- Each flowmeter is supplied with 1 hose barb, tubing, and luer connector.

PRODUCT	DESCRIPTION	PRICE
116116	Rotameter Flow Meter, 0-4 LPM, non adjustable	\$70.00
195380	Rotameter Flow Meter, 1-20 LPM, non adjustable	\$70.00
195505	Rotameter Flow Meter, 3-30 LPM, non adjustable	\$70.00

Pelican™ Pump and Equipment Cases

Pelican™ equipment protector cases are unbreakable, watertight to 30 feet, and corrosion proof. They are made of an incredibly light structural foam resin shell that always looks new and is unaffected by dents, scratches and corrosion.

Features:

- Watertight, crush-proof, and dust proof
- O-ring seal
- Automatic pressure equalization valve
- Comfortable rubber over-molded handle
- Stainless Steel Hardware and padlock protectors
- Pick-N-Pluck™ foam with convoluted lid foam

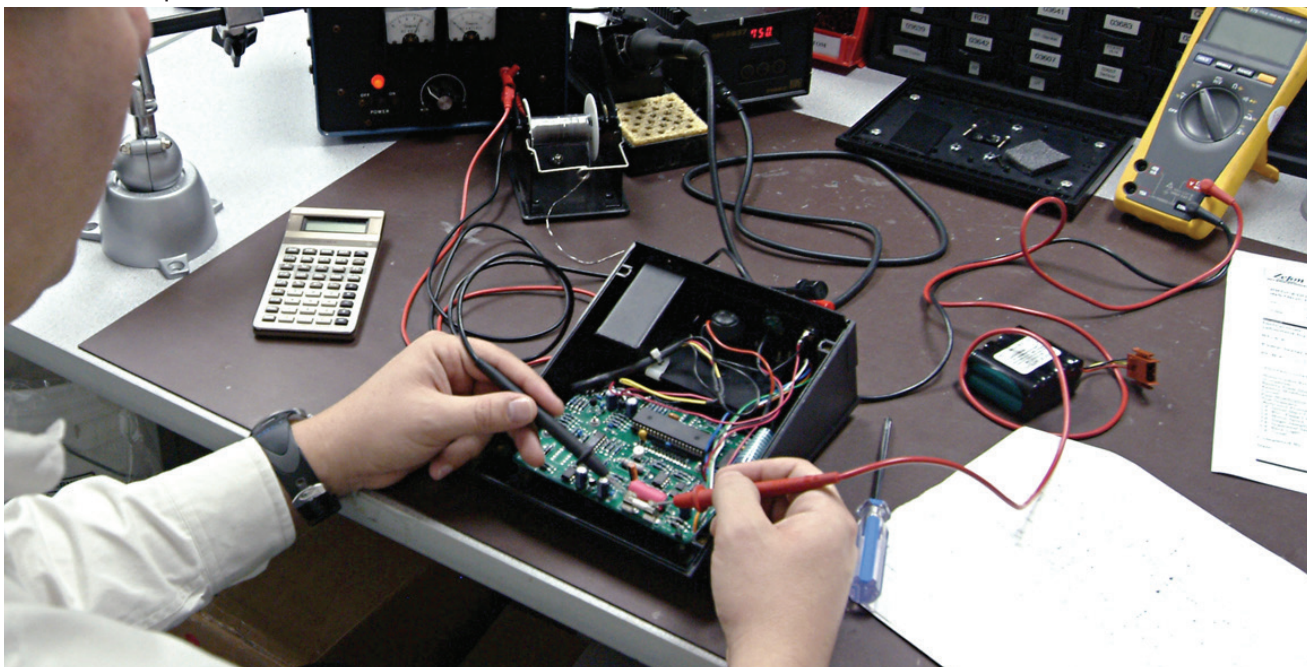


All Pelican cases shown above include Pick-N-Pluck foam. This foam can be easily “plucked” to provide a snug fit for your equipment or accessories.

PRODUCT	DESCRIPTION	INTERNAL SIZE	PRICE
ZA0120	Pelican™ 1200 Case, Black, with Pick-N-Pluck Foam Uses: Personal Sampling Pump & Charger, TSI 4146 Calibrator, Bios Defender Calibrator, Gilian Challenger, Drager CMS	9.25" x 7.12" x 4.12"	\$65.00
ZA0121	Pelican™ 1300 Case, Black, with Pick-N-Pluck Foam Uses: Personal Sampling Pump, Charger & Media or Buck Bio-Culture Pump	9.87" x 7.00" x 6.12"	\$80.00
ZA0122	Pelican™ 1400 Case, Black, with Pick-N-Pluck Foam Uses: Zefon® DigiCal Calibrator, Zefon® Bio-Pump Plus or Met-One Particle Counter	11.81" x 8.87" x 5.18"	\$120.00
ZA0123	Pelican™ 1450 Case, Black, with Pick-N-Pluck Foam	14.66" x 10.24" x 6.12"	\$150.00
ZA0134	Pelican™ 1430 Case, Black, with Pick-N-Pluck Foam	13.56" x 5.76" x 11.70"	\$125.00
ZA0124	Pelican™ 1500 Case, Black, with Pick-N-Pluck Foam Uses: 2 Rotary Vane Pumps or Buck Bio-Culture with Calibration head	16.75" x 11.18" x 6.12"	\$180.00
ZA0125	Pelican™ 1510 Case, Black, On Wheels Uses: 5 Personal Sampling Pumps and Chargers or 3 Personal Sampling Pumps with Chargers, and Calibrator or Media	19.75" x 11.00" x 7.60"	\$254.00
ZA0126	Pelican™ 1520 Case, Black, with Pick-N-Pluck Foam Uses: 2 Rotary Vane Pumps with Stands or 2-3 Bios Defenders	18.06" x 12.89" x 6.72"	\$198.00
ZA0127	Pelican™ 1550 Case, Black, with Pick-N-Pluck Foam Uses: 2 Diaphragm Pumps and Stands or 5 Personal Sampling Pumps with Chargers, Calibrators or Cyclones and Media	18.43" x 14.00" x 7.62"	\$220.00
ZA0131	Pelican™ 1620 Case, Black, On Wheels, with Pick-N-Pluck Foam Uses: Microscopes with accessories	21.48" x 16.42" x 12.54"	\$360.00
ZA0133	Pelican™ 1650 Case, Black, with Pick-N-Pluck Foam	28.57" x 17.52" x 10.65"	\$380.00

Factory Pump Repair Services

Providing expert factory repairs of **Zefon®** brand pumps, including Bio-Pump®, Bio-Pump® Plus, Escort® and IAQ DC Pump.



COMPREHENSIVE FLAT RATE REPAIR SERVICE

The **Zefon®** comprehensive flat rate program is a fully comprehensive repair service that covers all the parts and labor required for the product to operate correctly within its stated specifications including:

- Complete evaluation of the pump
- Repair or replacement of any parts necessary to bring the pump back into a condition of operating within specifications
- All labor involved for testing and repair
- Calibration of internal secondary standard (Escort ELF® only)
- Software upgrade (IAQ pumps only, if available and compatible)
- Full and complete run testing

Note: Comprehensive repair service includes all parts integrated into the product itself. It does not include external accessories or components of the product, such as battery chargers or flow meters.

ESCORT BRAND PUMPS

Zefon® IAQ PUMPS

Escort ELF® Repair + Calibration (includes calibration certificate) \$390.00

Escort ELF® Calibration only (includes calibration certificate) \$145.00

Escort® LC Repair \$300.00

Bio-Pump® Plus & IAQDC Pump Repair \$185.00



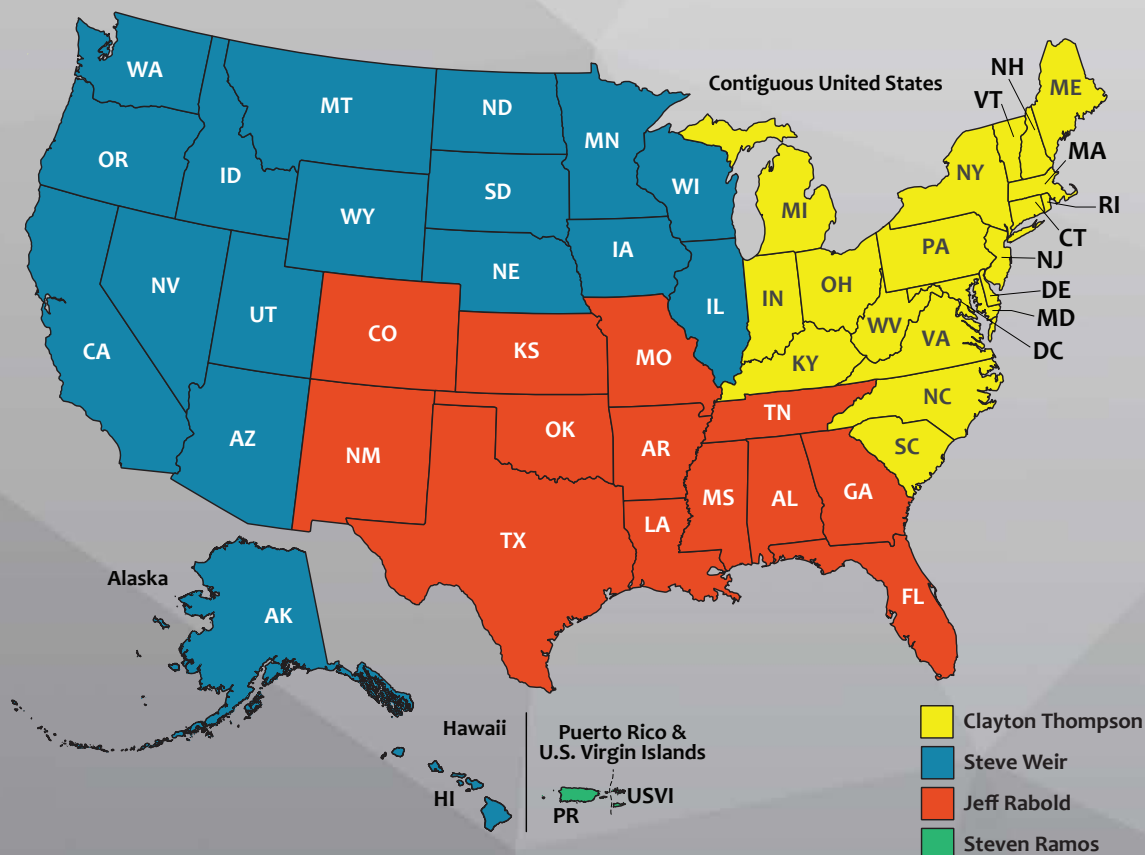
For repair of other brands of DC powered pumps or repair of AC powered pump, please contact us and we will provide manufacturer contact information or a qualified third party company to contact for repairs.

Please keep our health into consideration and make sure all pumps sent in for repair are free from hazardous materials. All pumps suspected to have been exposed to hazardous substances (including asbestos) should be decontaminated before sending in for repair. **Zefon®** recommends that each pump be placed in a plastic bag and marked as decontaminated, so that there are no questions about the status of the pump. Pumps that appear to have hazardous substances on them and are not marked or labeled will be returned at your expense without repair.

Zefon

INTERNATIONAL

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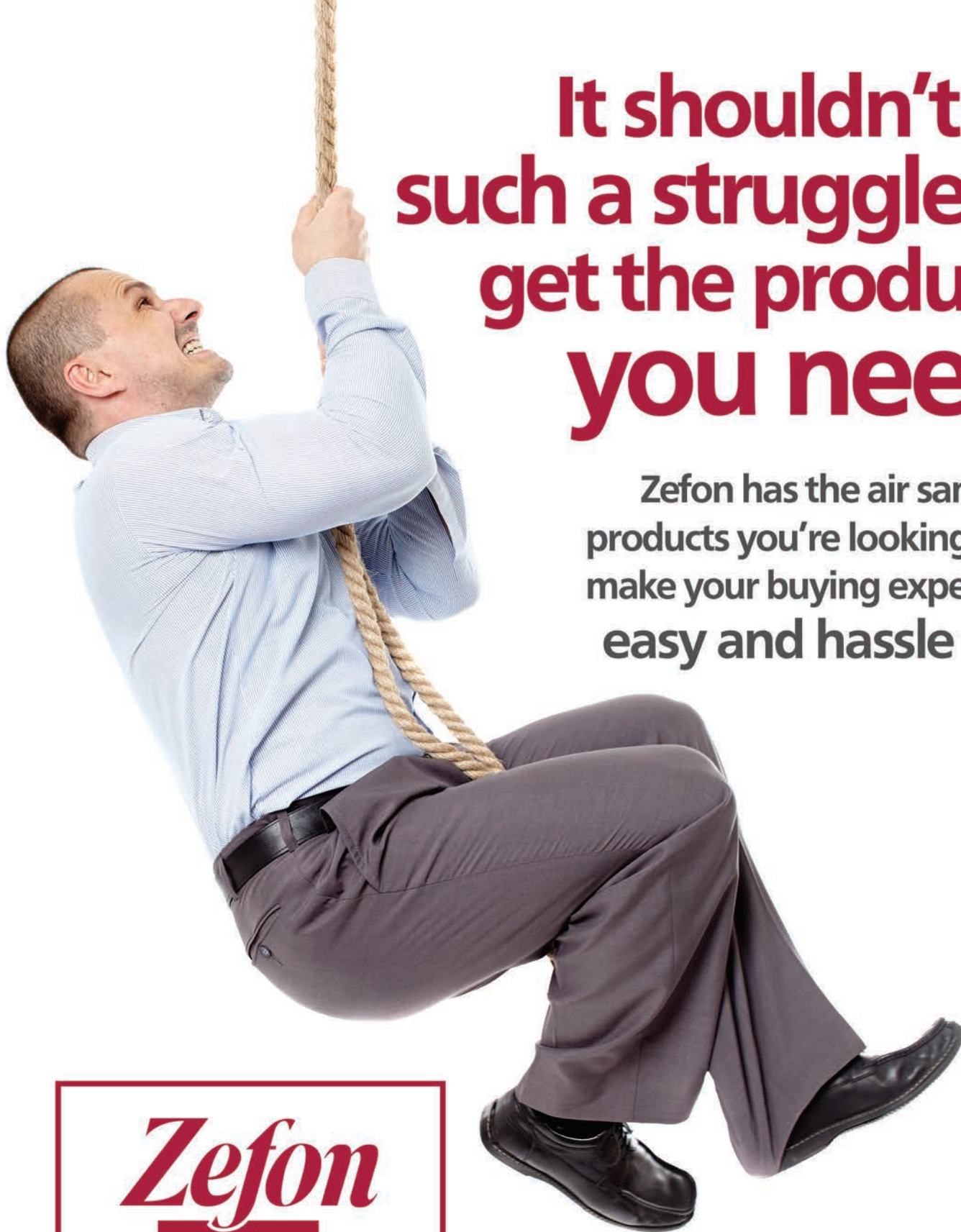
International Sales Representative

Representative

Steven Ramos

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Sales Tax

Zefon collects sales tax in all states it is required to do so.

Resale customers, government customers, or other tax exempt entities must have a current exemption information on file with Zefon. If you have an exemption please send us the information to salestax@zefon.com before placing your order.

Shipping

Orders of in-stock items are normally shipped the same day if received by 2:00PM EST. If any of the items you ordered are not in-stock, we will contact you with an expected availability date. Orders are shipped FOB Ocala, FL or shipped directly from the factory, at the discretion of Zefon International.

Shipment of your order will be made using the least expensive carrier for the shipping method you requested. All shipping charges are prepaid and added to the cost of your invoice, unless you have made special arrangements when placing your order.

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All pricing in this catalog is current as of publication time and is subject to change at any time without notice.

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We want you to be happy with your purchase from Zefon and realize that there are times you may wish to return an item. Zefon accepts returns up to 30 days after the invoice date with no additional charge. After 30 days, we must charge a 20% re-stocking fee. No returns are accepted after 60 days.

Product should be in original carton with all original documentation and in "like new" condition. Mining dust cassettes, custom orders, partial boxes, opened boxes of air sampling filter cassettes, opened sterile products, special orders, NIST certificates and expired products may not be returned.

All returned merchandise will be inspected before credit is issued. Items returned which are found to be missing components or are damaged will be returned to the customer or only partial credit issued. Customers will be contacted to determine the value and what option they choose.

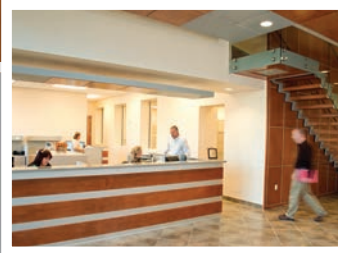
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<http://www.zefon.com/terms-and-conditions-of-sale>



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