Innovation Delivered

The ultimate air sampling pump delivering enhanced performance, greater versatility, and superior design and comfort.

**QuadMode™ Air Sampling Technology**
High-flow constant pressure and constant flow and low-flow constant pressure and constant flow without external adapters

**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

**Real-time Clock with Data-logging**
An optional computer interface for uploading program information or downloading time-stamped data-logs through the docking station

The GilAir GilAir Plus is equipped with QuadMode™ Air Sampling Technology performing high-flow constant pressure and constant flow and low-flow constant pressure and constant flow without external adapters or flow inhibitors. The pump’s wide dynamic flow and pressure ranges address all personal air sampling methods with flow ranges between 20 – 5000 cc/min.

GilAir Plus delivers the reliable performance users expect from the Gilian brand. The pump has high back-pressure capability of up to 40” H2O in high-flow and up to 25” H2O in low flow. An automatic self check system ensures sample accuracy by continuously monitoring pump performance and components.

The selectable automatic fault recovery feature provides restart in the event the sample tubing becomes crimped or briefly blocked. This feature attempts to restart the pump up to 10 times every 3 minutes to check if the block cleared, fault time is not added to the accumulated and displayed sample runtime. Automatic fault recovery can be disabled if desired.

The GilAir Plus dock provides charging and communication functions for the pump. Once docked, the PC application allows users to review datalogs, generate sampling reports, manage sampling programs, and create pump set-up profiles that expedite deployment of large pump fleets. The SmartCal™ feature uses the dock as a communication link between appropriate calibration devices and the GilAir Plus. SmartCal™ automates calibration and records pre and post sample calibrations in the pump’s datalog.

The GilAir Plus is capable of providing an ambient or standard temperature and pressure corrected (STP) flow rate and datalogging (in appropriate models of the pump).

An intuitive menu and keypad interface make it easy for users to make adjustments or change settings on the pump using a lockable keypad to prevent tampering once the pump is set up for use.
# Universal Air Sampling Pump

**Description**

<table>
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<tr>
<th>Description</th>
<th>US Plug</th>
<th>Euro Plug</th>
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<tr>
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<td>810-0901-01-R</td>
<td>810-0901-01-R</td>
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<td>Data-logging Model</td>
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<tr>
<td>Five Unit Kit</td>
<td>910-0904-US-R</td>
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The Dock provides charging capabilities for all GilAir Plus models and communication functions for Datalog and STP models. Three and five-station docks are available when ordering multi-pump configurations.

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### Product Specifications

**PERFORMANCE**

- **Flow Range**: Constant flow 20 - 5,000 cc/min. without external adaptors.
- **Flow Modes**: Constant Flow or High and Low Flow
- **Constant Pressure**: 1 - 5,000 cc/min without external adaptors
- **Flow Modes**: Constant Flow or High and Low Flow
- **Accuracy**: ± 5% or 3 cc/min of set flow, whichever is larger.
- **Constant Flow Control**: ± 5% or 3 cc/min of set flow, whichever is larger.
- **Constant Pressure Control**: ± 10% of back-pressure
- **Back Pressure Capability**:
  - 8-hour runtime: 5000 cc/min. up to 12" H2O back pressure,
  - 4000 cc/min. up to 20" H2O back pressure,
  - 3000 cc/min. up to 30" H2O back pressure,
  - 2000 cc/min. up to 30" H2O back pressure,
  - 1000 cc/min. up to 35" H2O back pressure,
  - 450 - 1000 cc/min. up to 40" H2O back pressure,
  - 20 - 449 cc/min. up to 25" H2O back pressure.
- **Run Time**: 8 hour minimum
- **Flow Fault**: If flow changes exceed 5% within back pressure specifications, fault notification appears. If fault exceeds 30 seconds, pump shuts down. Selectable automatic fault recovery allows the pump to attempt restart every 3 minutes for up to 10 times or to hold until manual intervention.

**ENVIRONMENTAL**

- **Temperature Ranges**:
  - Operating: 32°F to 113°F (0°C to 45°C)
  - Storage: -4°F to 113°F (-20°C to 45°C)
  - Charging: 41°F to 104°F (5°C to 40°C)
- **Humidity Ranges**:
  - Operating: 5-85 %RH, non-condensing
  - Storage: 5-98 %RH, non-condensing

**GENERAL**

- **Display**: Flow rate, sample time, and sample volume in actual conditions.
- **Controls**:
  - On-screen icon displays battery level
- **Indicators**: Green and Red LED's.
- **Dimensions**: 4.3 x 2.4 x 2.4 inches (10.9 x 6.1 x 6.1 centimeters)
- **Weight**: 20.5 ounce (581 grams)
- **Warranty**: 2 years from original shipment, 5 years for pump keypad, and 1 year on rechargeable NiMH battery pack

**ELECTRICAL**

- **Power Options**: Removable rechargeable nickel-metal hydride (NiMH) battery pack, optional alkaline battery pack, or DC power
- **Battery Level Indicator**: On-screen icon displays battery level
- **Interface Connectors**: All pump interface is carried out via the Dock or keypad
- **Dock Functions**: Battery charging, computer interface, and auto-calibration
- **Charging Time**: Under 3.5 hours

**APPROVALS**

- **EN 1232**: Type P
- **Intrinsic Safety**: US/Canada NRTL (FM) Class I, Div 1 Groups A, B, C, D, E, F, and G; Class II, Div 1 Zone 0; Class III, T4
- **ATEX**: II 1 G Ex ia IIC T4
- **CE**:
- **Applicable Directives**: ATEX 94/9/EC; EMC 2004/108/EC (RFI); LVD 2006/95/EC; RoHS Compliant

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