

# GilAir® PLUS

**Innovation Delivered**

**Gilian**®

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

## QuadMode<sup>SM</sup> Air Sampling Technology

Wide, dynamic flow range providing 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 and provides automatic flow correction option for barometric pressure changes

## 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 Gilian GilAir® Plus is equipped with QuadMode<sup>SM</sup> Air Sampling Technology performing high-flow constant pressure and constant flow and low-flow constant pressure and constant flow without external adapters. The pump's wide dynamic flow and pressure ranges address all personal air sampling methods with flow ranges between 1 – 5,000 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" H<sub>2</sub>O in high-flow and up to 25" H<sub>2</sub>O 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<sup>SM</sup> feature uses the dock as a communication link between appropriate calibration devices and the GilAir® Plus. SmartCal<sup>SM</sup> 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.

# GilAir PLUS

## Universal Air Sampling Pump



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.

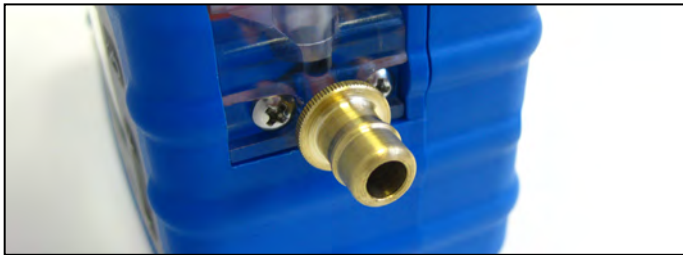


Photo of Bag-fill Accessory

	US Plug	Euro Plug	UK Plug
<b>Description</b>			
<b>Pump Only</b>			
Basic Model	810-0901-01-R	810-0901-01-R	810-0901-01-R
Data-logging Model	810-0902-01-R	810-0902-01-R	810-0902-01-R
STP Model	810-0903-01-R	810-0903-01-R	810-0903-01-R
<b>Starter Kit</b>			
Basic Model	910-0901-US-R	910-0901-EU-R	910-0901-UK-R
Data-logging Model	910-0902-US-R	910-0902-EU-R	910-0902-UK-R
STP Model	910-0903-US-R	910-0903-EU-R	910-0903-UK-R
<b>Five Unit Kit</b>			
Basic Model	910-0904-US-R	910-0904-EU-R	910-0904-UK-R
Data-logging Model	910-0905-US-R	910-0905-EU-R	910-0905-UK-R
STP Model	910-0906-US-R	910-0906-EU-R	910-0906-UK-R

### Product Specifications

#### PERFORMANCE

Flow Range.....	Constant flow 20 - 5,000 cc/min. without external adaptors Constant pressure 1 - 5,000 cc/min without external adaptors
Flow Modes .....	Constant Flow or High and Low Flow Constant Pressure
Accuracy	
Flow Display .....	± 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
Barometric Pressure.....	± 5% of calibrated flow from 460 to 1060 mmHg (STP Model Only) in high flow ranges
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 .....	5-95 %RH, non-condensing
Storage .....	5-98 %RH, non-condensing

#### GENERAL

Display .....	Flow rate, sample time, and sample volume in actual conditions
Controls .....	
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 Compliant	Ingress Protection: IP54
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

