

**F&J SPECIALTY PRODUCTS, INC.**

*The Nucleus of Quality Air Monitoring Programs*

## **GLOBAL AIR SAMPLER FIXED STATION HIGH VOLUME AIR SAMPLER SYSTEMS**

**100 — 120 VAC**



**GAS-604DT**



**GAS-804DT**



**GAS-60810DT**



**GAS-PM10DT**



**GAS-PM2.5DT**



**GAS-60810DT-HSI**

Rev: 23 June 2025

## GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-604DT

### NOTABLE FEATURES:

- Precision machined DP flow sensor
- State-of-the-Art electronics
- Vacuum fluorescent display (VFD); 4 lines×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Operator selectable units of measurement
- Dual RS-232 communication ports
- Flow rate accuracy: ±3.0% Full Scale
- Auto zero calibration feature of flow sensor
- Continuous or periodic sampling mode
- Multiple operator selectable data storage rates
- Display of Multiple on-board calculations
- Powerful 1100 Watt Brushless motor
- 100-120VAC; 50/60Hz, single phase



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set between 17 to 85 m<sup>3</sup>/hr (10 – 50 CFM). The standard filter holder has the dimensions 4”D (102 mm).

**Technology:** Microprocessor controlled state of the art electronics

**Operating Temperature Range:** -20°F to 122°F (-29°C to 50°C)

**Operating Relative Humidity:** 0 – 95% RH

**Typical Flow Rate Range:** 17 to 85 m<sup>3</sup>/hr (10 – 50 CFM)  
(Depending on filter paper dimensions and air resistance)

**Ultimate Vacuum:** 22.2 kPa (89.21 inches H<sub>2</sub>O)

**Motor:** Brushless: 1.5 H.P. (1100 Watt) motor with electronic motor speed control

**Power Requirements:** 100-120VAC; 50/60Hz; 10 amperes; single phase.

**Housing:** Powder coat painted aluminum      Locking hinged cover  
Removable hinged cover      Locking swing door with key

**Dimensions:** 57.5”H × 21.5”W × 21.5”D      (146H × 54,6W × 54,6 cm D)

**Weight:** Approximately 98 lbs. (44,5 kg)

**Shipping Weight:** Approximately 150 lbs. (68,2 kg)

**Installation Category:** Pollution Degree 3

**Enclosure Rating:** IPX3

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the preset STP flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within ± 4.0% of setting. The microprocessor computes the STP flow rate by correcting for temperature and pressure.

## GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-804DT

### NOTABLE FEATURES:

- Precision machined DP flow sensor
- State-of-the-Art electronics
- Vacuum fluorescent display (VFD); 4×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Display in English or various metric units
- Dual RS-232 communication ports
- Flow rate accuracy: ±3.0% Full Scale
- Auto zero calibration feature of flow sensor
- Various operator selectable sampling modes
- Multiple operator selectable data storage and data transmission frequency rates
- Display of Multiple on-board calculations
- Wide temperature range electronics



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set between 5 and 50 CFM (141 and 1415 LPM). Filter holder is a 4 inch (102 mm) diameter standard.

**Technology:** Microprocessor controlled state of the art electronics

**Operating Temperature Range:** -31°F\* to 122°F (-35°C\* to 50°C)  
\* warm start/continuous operation

**Operating Relative Humidity:** 0 – 95% RH

**Typical Flow Rate Range:\*** 5 – 50 CFM (141 to 1415 LPM)  
(Depending on filter paper dimensions and air resistance).

**Motor:** Brushless: 1.5H.P. (1100 Watt) motor with electronic motor speed control

**Power Requirements:** 100-120VAC; 50/60Hz; 5 amperes; single phase.

**Housing:** Powder coat painted aluminum  
Locking swing door with key

**Dimensions:** 26”H × 26.5”W × 16.5”D (66 H × 67 W × 41cm D)

**Weight:** Approximately 60 lbs. (27,2 kg)

**Shipping Weight:** Approximately 100 lbs. (45,5 kg)

**Installation Category:** Pollution Degree 3

**Enclosure Rating:** IPX3

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the operator selectable preset reference T and P corrected flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within ± 3.0% of setting. The microprocessor computes the STP flow rate by correcting for temperature and pressure.

## GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-60810DT

### NOTABLE FEATURES:

- Precision machined DP flow sensor
- State-of-the-Art electronics
- Vacuum fluorescent display (VFD); 4 lines×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Operator selectable units of measurement
- Dual RS-232 communication ports
- Standard flow rate accuracy:  $\pm 3.0\%$  Full Scale
- Custom flow calibration to 1% of reading
- Auto zero calibration feature of flow sensor
- Continuous or periodic sampling mode
- Multiple operator selectable data storage rates
- Display of Multiple on-board calculations
- Powerful 1100 Watt Brushless motor
- Meets or exceeds the USEPA requirements in 40CFR50 Appendix B
- 100-120VAC; 50/60Hz, single phase



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set between 30 and 170 m<sup>3</sup>/hr (18 – 100 CFM). The standard filter holder has the dimensions 8”×10” (20,3×25,4 cm).

**Technology:** Microprocessor controlled state of the art electronics

**Operating Temperature Range:** 0°F to 122°F (-17°C to 50°C)

**Operating Relative Humidity:** 0 – 95% RH

**Typical Flow Rate Range:\*** 30 to 170 m<sup>3</sup>/hr (20 – 100 CFM)  
(Depending on filter paper dimensions and air resistance)  
\* Approximate value for FP810M glass fiber filter media

**Ultimate Vacuum:** 22.2 kPa (89.21 inches H<sub>2</sub>O)

**Motor:** Brushless: 1.5H.P. (1100 Watt) motor with electronic motor speed control

**Power Requirements:** 100-120VAC; 50/60Hz; 5 amperes; single phase.

**Housing:** Powder coat painted aluminum      Locking hinged cover  
Removable hinged cover      Locking swing door with key

**Dimensions:** 57.5”H × 21.5”W × 21.5”D      (146H × 54,6W × 54,6 cm D)

**Weight:** Approximately 98 lbs. (44,5 kg)

**Shipping Weight:** Approximately 150 lbs. (68,2 kg)

**Installation Category:** Pollution Degree 3

**Enclosure Rating:** IPX3

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the operator selectable preset Reference T and P corrected flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within  $\pm 3.0\%$  of setting with the standard calibration, or to 1% reading with the optional custom calibration. The microprocessor computes the Reference flow rate by correcting the measured values of temperature and pressure to the reference values.

## PM-10 GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-PM10DT

### NOTABLE FEATURES:

- Size Selective Inlet (<10 micron cut size)
- Precision machined DP flow sensor
- State-of-the-Art electronics
- Vacuum fluorescent display; 4×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Display in English or various metric units
- Dual RS-232 communication ports
- Standard flow rate accuracy: ±3.0% Full Scale
- Custom flow calibration to 1% of reading
- Auto zero calibration feature of flow sensor
- Various operator selectable sampling modes
- Display of Multiple on-board calculations
- Wide temperature range electronics



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set ~100 CFM (~170 m<sup>3</sup>/hr) . Filter holder is a 8"×10" (2013×2514 cm) standard.

**Technology:** Microprocessor controlled state of the art electronics

**Operating Temperature Range:** 0°F to 122°F (-17°C to 50°C)

**Typical Flow Rate Range:** ~100 CFM (~170 m<sup>3</sup>/hr)  
(Depending on filter paper dimensions and air resistance).

**Motor:** Brushless: 1100 Watt motor with electronic motor speed control

**Power:** 100-120VAC; 50/60Hz; 30 amperes; single phase.

**Housing:** Powder coat painted aluminum      Hinged cover  
Removable hinged cover      Locking swing door with key

**Dimensions:** 57.5"H × 21.5"W × 21.5"D      (146H × 54.6W × 54.6 cm D)

**Weight:** Approximately 139 lbs. (63 kg)

**Shipping Weight:** Approximately 190 lbs. (86.4 kg)

**Installation Category:** Pollution Degree 3

**Enclosure Rating:** IPX3

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the operator selectable preset reference T and P corrected flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within ± 3.0% of setting with the standard calibration, or to 1% reading with the optional custom calibration. The microprocessor computes the Reference flow rate by correcting the measured values of temperature and pressure.

## PM2.5 GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-PM2.5DT

### NOTABLE FEATURES:

- Size Selective Inlet (<2.5 micron cut size)
- Precision machined DP flow sensor
- State-of-the-Art electronics
- Vacuum fluorescent display; 4×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Display in English or various metric units
- Dual RS-232 communication ports
- Standard flow rate accuracy: ±3.0% Full Scale
- Custom flow calibration to 1% of reading
- Auto zero calibration feature of flow sensor
- Various operator selectable sampling modes
- Display of Multiple on-board calculations
- Wide temperature range electronics



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set ~100 CFM (~170 m<sup>3</sup>/hr) . Filter holder is a 8"×10" (2013×2514 cm) standard.

**Technology:** Microprocessor controlled state of the art electronics

**Operating Temperature Range:** 0°F to 122°F (-17°C to 50°C)

**Typical Flow Rate Range:** ~100 CFM (~170 m<sup>3</sup>/hr)  
(Depending on filter paper dimensions and air resistance).

**Motor:** Brushless: 1100 Watt motor with electronic motor speed control

**Power:** 100-120VAC; 50/60Hz; 30 amperes; single phase.

**Housing:** Powder coat painted aluminum      Hinged cover  
Removable hinged cover      Locking swing door with key

**Dimensions:** 57.5"H × 21.5"W × 21.5"D      (146H × 54.6W × 54.6 cm D)

**Weight:** Approximately 139 lbs. (63 kg)

**Shipping Weight:** Approximately 190 lbs. (86.4 kg)

**Installation Category:** Pollution Degree 3

**Enclosure Rating:** IPX3

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the operator selectable preset reference T and P corrected flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within ± 3.0% of setting with the standard calibration, or to 1% reading with the optional custom calibration. The microprocessor computes the Reference flow rate by correcting the measured values of temperature and pressure.

## GLOBAL AIR SAMPLING SYSTEM F&J MODEL GAS-60810DT-HSI

### NOTABLE FEATURES:

- Precision machined DP flow sensor
- Omni-directional hemispherical sample inlet
- State-of-the-Art electronics
- Vacuum fluorescent display; 4 lines×24 characters
- Flow rate and Volume measurements corrected to operator selectable Reference Temperature and Pressure
- Automatic flow control
- Operator selectable units of measurement
- Dual RS-232 communication ports
- Standard flow rate accuracy:  $\pm 3.0\%$  Full Scale
- Custom flow calibration to 1% of reading
- Auto zero calibration feature of flow sensor
- Continuous or periodic sampling mode
- Multiple operator selectable data storage rates
- Display of Multiple on-board calculations
- Powerful 1100 Watt motor



### Performance:

Basic components of the system are modular and independently serviceable. Sample flow rate can be set between 30 and 200 m<sup>3</sup>/hr (18 – 117 CFM). The standard filter holder has the dimensions 8”×10” (20,3×25,4 cm).

**Technology:** Microprocessor controlled state of the art electronics

**Operating Temperature Range:** 0°F to 122°F (-17°C to 50°C)

**Typical Flow Rate Range:\*** 30 to 170 m<sup>3</sup>/hr (20 – 100 CFM)  
(Depending on filter paper dimensions and air resistance)  
\* Approximate value for FP810M glass fiber filter media

**Ultimate Vacuum:** 22.2 kPa (89.21 inches H<sub>2</sub>O)

**Motor:** Brushless: 1.5H.P. (1100 Watt) motor with electronic motor speed control

**Power Requirements:** 100-120VAC; 50/60Hz; 10 amperes; single phase.

**Housing:** Powder coat painted aluminum      Locking hinged cover  
Removable hinged sample inlet      Locking swing door with key

**Dimensions:** 57.5”H × 21.5”W × 21.5”D      (146H × 54,6W × 54,6 cm D)

**Weight:** Approximately 130 lbs. (59 kg)

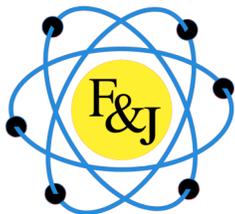
**Shipping Weight:** Approximately 180 lbs. (81,8 kg)

**Installation Category:** Pollution Degree 3

**Enclosure Rating:** IPX3

### Automatic Flow Control:

The system microprocessor monitors flow rate relative to the operator selectable preset reference T and P corrected flow rate established during the setup procedure and electronically adjusts the electronic motor speed adjustment, if necessary, to maintain the flow within  $\pm 3.0\%$  of setting with the standard calibration, or to 1% reading with the optional custom calibration. The microprocessor computes the Reference flow rate by correcting the measured values of temperature and pressure.



## F&J SPECIALTY PRODUCTS, INC.

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### PRODUCT PROFILE

#### Air Sampling Systems

- High Volume Air Samplers
  - Portable Grab Samplers
  - Environmental Systems
  - Enzyme Dust Samplers
  - PM10 Systems
- Continuous Air Samplers
  - Environmental Systems
  - Portable
  - Fixed Station
- Personal Air Samplers
- Emergency Response DC Powered Air Sampling Systems

#### Filter Paper

- Glass Fiber
- Cellulose
- Membrane
- Quartz

#### Filter Holders

- Open face
- In-Line
- PAS Filter Holders
- Materials
  - Plastic
  - Aluminum
  - Stainless Steel

#### Radon Detection Devices

- 2-Day Passive Charcoal Canisters
- 7-Day Passive Charcoal Canisters
- Continuous Radon Monitors

#### Tritium Detection Systems

- Portable and Fixed Station Collection Systems utilizing Silica Gel or Molecular Sieve Absorbents
- Continuous Tritium Monitors

#### New Products

- Global Air Sampling Systems
- Digital Flowmeter Air Samplers
- C-14 Collection Systems
- ELITE DIGITAL LIGHT (EDL) Air Samplers
- Isokinetic Air Sampling Systems
- MEGA High Volume Air Samplers
- ULTRA High Volume (CTBTO) Air Samplers
- JUNIOR CTBTO Air Samplers

#### Radioiodine Collection Cartridges

- TEDA Impregnated Charcoal
- Silver Zeolite
- Custom Cartridges
- Bulk Silver Zeolite

#### Air Flow Calibrators

- World Calibrator Series
- Compact Digital V.2 Series
- Mini-Calibrator