Lithium-ion Battery Powered Air Samplers

DF-40L-Li
DF-AB-40L-Li
DF-75L-Li

DF-AB-75L-Li
DF-40L-400-Li
DF-75L-400-Li

Rev: 18 February 2020
EMERGENCY RESPONSE SAMPLING SYSTEM
Digital Flow Meter Technology
F&J Model DF-40L-Li

NOTABLE FEATURES:
- State-of-the-Art Electronics
- Operating Modes
  — Line Power (100VAC – 250VAC)
  — On-Board Batteries
  — Automobile Cigarette Lighter
- Long-lasting Lithium ion Batteries
- Battery Charging Circuit operable from Line Power Input
- Lightweight — ~13 lbs. (5.9 kg)
- Maximum Flow 30 to 35 LPM Maximum; typical
- Bright LED Display
- Automatic Flow Control Feature
- Flowrate and Volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available)
- Auto shut-off on time or volume
- Battery Life Indicator

GENERAL DESCRIPTION:
F&J Model DF-40L-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 20 Ah Li Ion batteries, (2) line power, or (3) vehicle cigarette lighter socket.

The DF-40L-Li is well suited for emergency response sampling activities where users do not know whether line power will be available. Typical operating time from on-board batteries is approximately 10-12 hours utilizing 47 mm glass fiber filter paper.

The automatic flow control feature with the F&J Digital Flow Meter technology provides maximum flexibility for emergency response sampling responsibilities. The set flowrate is maintained automatically in case of dust loading and does not require operator attention. The air sampler is contained in a lightweight small dimensioned enclosure, which is watertight. Its large, rugged handle can carry the unit very easily.

Typical flow range is 10 – 35 SLPM (0.3 -1.24 SCFM).
**DF-40L-Li Battery Powered Air Sampler Specifications**

**Pump Type:** Dual diaphragm high efficiency

**Maximum Flowrate:** 35 LPM typical with 47 mm glass fiber media

**Power Source:**
- Internal – Li Ion; 14.8VDC/20 Ah Battery Pack
- External – Line Power; 100VAC to 250VAC
  - Vehicle Cigarette Lighter – 12VDC

**Battery Charging System:** Internal System which charges from line power.

**Operating Time on Batteries:** ~ 10-12 hours

**Current Draw:** 0.6 A maximum

**Filter Holder Fitting:** 3/8 FNPT quick disconnect

**Handle:** Durable plastic

**Weight:** 13 lbs. (5.9 kg)

**Dimensions:** 8”L × 9”W × 12” H (20 × 23 × 30 cm)

**Operating Temperature:**
- Discharge: 0°F to 122°F (-18°C to 50°C)
- Charge: 32°F to 113°F (0°C to 45°C)

**Storage Temperature:** 20°F to 140°F (-7°C to 60°C)

**Display:** Bright LED (6 character, 1.2 cm H)

**Elapsed Time:** DD:HH:MM up to 168 hours

**Flow Control:** Adjustable from keypad between 10 - ~35 LPM

**Flow Accuracy:** ± 4.0% of Full Scale

**OPTIONS:**
- Data Storage Device (P/N: 232FCDSD)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

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**Standard Combination Filter Holders Available:**

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**Available Engineering Units for Flow and Volume:**
- sccm / scc
- SLPM / SLP
- SCFM / SCF
- SCMH / SCM
EMERGENCY RESPONSE SAMPLING SYSTEM  
Digital Flow Meter Technology  
F&J Model DF-AB-40L-Li

NOTABLE FEATURES:
- State-of-the-Art Electronics
- Operating Modes
  — Line Power (100VAC – 250 VAC)
  — On-Board Batteries
  — Automobile Cigarette Lighter
- Long-lasting 20 Ah Lithium ion Battery Pack
- Internal battery charging system operable from line power input
- Lightweight — ~16 lbs. (7.3 kg)
- Maximum Flow 30 to 35 LPM Maximum; typical
- Bright LED Display
- Automatic Flow Control Feature
- Flowrate and Volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available)
- Auto shut-off on time or volume
- Battery Life Indicator

GENERAL DESCRIPTION:
F&J Model DF-AB-40L-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 20 Ah Li Ion batteries, (2) line power, or (3) external 12VDC source.

The DF-AB-40L-Li is well suited for emergency response sampling activities where users do not know whether line power will be available. Typical operating time from on-board batteries is approximately 10-12 hours utilizing 47 mm glass fiber filter paper.

The automatic flow control feature with the F&J Digital Flow Meter technology provides maximum flexibility for emergency response sampling responsibilities. The set flowrate is maintained automatically in case of dust loading and does not require operator attention. The air sampler is contained in a lightweight small dimensioned enclosure, which is watertight. Its large, rugged plastic handle can carry the unit very easily.

Typical flow range is 10 - 35 SLPM (0.3 -1.24 SCFM).
DF-AB-40L-Li Battery Powered Air Sampler Specifications

**Pump Type:** Dual diaphragm high efficiency

**Maximum Flowrate:** 35 LPM typical with 47 mm glass fiber media

**Power Source:**
- Internal – Li Ion; 12VDC/20 Ah Battery Pack
- External – Line Power; 100VAC to 240VAC
  Auxiliary port – 12 to 15 VDC

**Battery Charging System:** Internal system which charges from line power.

**Operating Time on Batteries:** ~ 18-20 hours

**Current Draw:** 0.6 A maximum

**Filter Holder Fitting:** 3/8 FNPT quick disconnect

**Handle:** Durable plastic

**Weight:** 16 lbs. (7.3 kg)

**Dimensions:** 18”L × 10.4”W × 13” H (45.7 × 26.4 × 33 cm)

**Noise Level:** Average dB 67.5 @ 1 meter

**Operating Temperature Range:** 0°F to 122°F (-18°C to 50°C)

**Display:** Bright LED (6 character, 1,2 cm H)

**Elapsed Time:** DD:HH:MM up to 168 hours

**Flow Control:** Adjustable from keypad between 10-35 LPM

**Flow Accuracy:** ±4.0% of Full Scale

**Factory Settable Reference T and P**
- Classical STP 0°C, 1 ATM
- Normal T and P 20°C, 1 ATM
- Modified Normal T and P 70°F, 1 ATM
- Standard Ambient T and P 25°C, 1 ATM

**OPTIONS:**
- Data Storage Device (P/N: 232FCDSD)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

### Standard Combination Filter Holders Available:

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**Available Engineering Units for Flow and Volume:**
- scm / scc
- SLPM / SLP
- SCFM / SCF
- SCMH / SCM

**Digital Flow Meter Keypad/Display**

Flow / Volume: SLPM/SL

![Digital Flow Meter Keypad/Display](image)
EMERGENCY RESPONSE SAMPLING SYSTEM
Digital Flow Meter Technology
F&J Model DF-75L-Li

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
  - Line Power (100VAC – 250VAC)
  - On-Board Batteries
  - Automobile Cigarette Lighter
  - BATBANK-12V
- Long-lasting Lithium ion battery
- Battery Charging Circuit operable from Line Power Input
- Lightweight — 22 lbs. (10 kg)
- Maximum Flow: 65 to 75 LPM; typical
- Bright LED Display
- Automatic Flow Control Feature
- Flowrate and Volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available)
- Auto shut-off on time or volume
- Battery Life Indicator

GENERAL DESCRIPTION:

F&J Model DF-75L-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 14.8 VDC; 20 Ah Lithium ion battery, (2) line power, or (3) external 12VDC source.

The DF-75L-Li is well suited for emergency response sampling activities where users do not know whether line power will be available. Typical operating time from on-board battery is approximately 8 - 10 hours utilizing 47 mm glass fiber filter paper.

The automatic flow control feature with the F&J Digital Flow Meter technology provides maximum flexibility for emergency response sampling responsibilities. The set flowrate is maintained automatically in case of dust loading and does not require operator attention.

Typical flow range is 30-75 SLPM (1.1 -2.6 SCFM).
DF-75L-Li Battery Powered Air Sampler Specifications

**Pump Type:** Dual diaphragm high efficiency

**Maximum Flowrate:**
>75 LPM – Typical w/47 mm FP47M glass fiber media

**Power Source:**
Internal –
14.8 VDC Battery Pack
Lithium Ion; 20 Ah
External –
Line Power; 100VAC or 250VAC
Automobile Cigarette Lighter – 12VDC

**Battery Charging System:**
Internal System which charges from line Power.

**Operating Time on Batteries:**
6-8 hours @ 56 LPM w/FP-47M glass fiber media

**Current Draw:** 3 A maximum

**Filter Holder Fitting:** 3/8 FNPT quick disconnect

**Handle:** Durable metal

**Weight:** 22 lbs. (10 kg)

**Dimensions:** 15”L×11W”×13”H
(38.1L × 28W × 33H cm)

**Noise Level:** Average dB 62.8 @ 1 meter

**Operating Temperature:** 0°F to 122°F (-18°C to 50°C)

**Display:** Bright LED (6 character; 1.2 cm H)

**Elapsed Time:** DD:HH:MM up to 168 hours

**Flow Control:**
Adjustable from keypad between 30-75 LPM

**Flow Accuracy:** ±4.0% of Full Scale

**Factory Settable Reference T and P**
- Classical STP 0°C, 1 ATM
- Normal T and P 20°C, 1 ATM
- Modified Normal T and P 70°F, 1 ATM
- Standard Ambient T and P 25°C, 1 ATM

**OPTIONS:**
- Data Storage Device (P/N: 232FCDSD)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

**Standard Combination Filter Holders Available:**

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**Available Engineering Units for Flow and Volume:**
sccm / scc
SLPM / SLP
SCFM / SCF
SCMH / SCM

Flow / Volume: SLPM/SL

60.0
EMERGENCY RESPONSE SAMPLING SYSTEM
Digital Flow Meter Technology
F&J Model DF-AB-75L-Li

NOTABLE FEATURES:

- State-of-the-Art Electronics
- Operating Modes
  — Line Power (100VAC – 250VAC)
  — On-Board Batteries
  — Automobile Cigarette Lighter
  — BATBANK-12V
- Long-lasting 20 Ah Lithium ion battery
- Battery charging system operable from line power input
- Lightweight — ~21.5 lbs. (9.8 kg)
- Maximum Flow: 75 LPM Maximum; typical
- Bright LED Display
- Automatic Flow Control Feature
- Flowrate and Volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available)
- Auto shut-off on time or volume
- Battery Life Indicator

GENERAL DESCRIPTION:

F&J Model DF-AB-75L-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 20 Ah lithium ion battery, (2) line power, or (3) external 12VDC source.

The DF-AB-75L-Li is well suited for emergency response sampling activities where users do not know whether line power will be available. Typical operating time from on-board batteries is approximately 8 - 10 hours utilizing 47 mm glass fiber filter paper.

The automatic flow control feature with the F&J Digital Flow Meter technology provides maximum flexibility for emergency response sampling responsibilities. The set flowrate is maintained automatically in case of dust loading and does not require operator attention. The air sampler is contained in a lightweight enclosure, which is watertight. Its large, rugged plastic handle can carry the unit very easily.

Typical flow range is 30 - 75 SLPM (1.1 - 2.6 SCFM).
DF-AB-75L-Li Battery Powered Air Sampler Specifications

**Pump Type:** Dual diaphragm high efficiency

**Maximum Flowrate:**
\[ \geq 75 \text{ LPM typical with FP47M glass fiber media} \]

**Power Source:**
- Internal – Lithium ion; 14.8 VDC/20 Ah Battery Pack
- External – Line Power; 100VAC or 250VAC
  - Auxiliary port — 12 to 15 VDC
  - BATBANK-12V

**Battery Charging System:** Internal system which charges from line power.

**Operating Time on Batteries:**
6-8 hours @ 56LPM w/FP-47M glass fiber filter media.

**Current Draw:** ~3.0 A @ 75 LPM with FP47M

**Filter Holder Fitting:** 3/8 FNPT quick disconnect

**Handle:** Durable plastic

**Weight:** 21.5 lbs. (9.8 kg) with battery
17.25 lbs. (8.1 kg) without battery

**Dimensions:** 17”L × 10.4”W × 13”H (43,2 × 26,4 × 33 cm)

**Noise Level:** Average dB 70.3 @ 1 meter

**Operating Temperature Range:** 0ºF to 122ºF (-18ºC to 50ºC)

**Display:** Bright LED (6 character, 1,2 cm H)

**Elapsed Time:** DD:HH:MM up to 168 hours

**Flow Control:**
Adjustable from keypad between 30-75 LPM

**Flow Accuracy:** ± 4.0% of Full Scale

**Factory Settable Reference T and P**
- Classical STP 0ºC, 1 ATM
- Normal T and P 20ºC, 1 ATM
- Modified Normal T and P 70ºF, 1 ATM
- Standard Ambient T and P 25ºC, 1 ATM

**OPTIONS:**
- Data Storage Device (P/N: 232FCDSD)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)

**Standard Combination Filter Holders Available:**

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**Available Engineering Units for Flow and Volume:**
- sccm / scc
- SLPM / SLP
- SCFM / SCF
- SCMH / SCM

**Digital Flowmeter Keypad/Display**

Flow / Volume: SLPM/SL

60.0
EMERGENCY RESPONSE SAMPLING SYSTEM
Digital Flow Meter Technology
F&J Model DF-40L-400-Li

NOTABLE FEATURES:
- State-of-the-Art Electronics
- Operating Modes
  — Line Power (100VAC – 250 VAC)
  — On-Board Batteries
- Long-lasting 20 Ah Lithium ion battery pack
- Internal battery charging system operable from line power input
- Lightweight — ~16.5 lbs. (7.4 kg)
- Maximum Flow 30 to 35 LPM Maximum; typical
- Bright LED Display
- Automatic Flow Control Feature
- Flowrate and Volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available)
- Auto shut-off on time or volume
- Battery Life Indicator

GENERAL DESCRIPTION:
F&J Model DF-40L-400-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 20 Ah Li Ion battery, (2) line power, or (3) auxiliary DC connector (12 – 15 VDC)

The DF-40L-400-Li is well suited for emergency response sampling activities where users do not know whether line power will be available. Typical operating time from on-board battery is approximately 18 - 20 hours utilizing FP47M glass fiber filter paper.

The automatic flow control feature with the F&J Digital Flowmeter technology provides maximum flexibility for emergency response sampling responsibilities. The set flowrate is maintained automatically in case of dust loading and does not require operator attention. The air sampler is contained in a lightweight small dimensioned enclosure which is water tight. The unit can be carried very easily by its large, rugged plastic handle.

Typical flow range is 10 - 35 SLPM (0.3 -1.24 SCFM).
DF-40L-400-Li Battery Powered Air Sampler Specifications

**Pump Type:** Dual diaphragm high efficiency

**Maximum Flowrate:** 35 LPM typical with FP-47M glass fiber media

**Power Source:**
- Internal – Li Ion; 14.8 VDC/20 Ah Battery Pack
- External – Line Power; 100VAC to 240VAC

**Battery Charging System:**
- Internal system which charges from line power.

**Operating Time on Batteries:** ~ 18-20 hours

**Current Draw:** 0.6 A maximum

**Filter Holder Fitting:** 3/8 FNPT quick disconnect

**Handle:** Durable plastic

**Weight:** 16.5 lbs. (7.4 kg)

**Dimensions:** 16.8”L × 9.0”W × 14.0”H (42.7 × 22.9 × 35.6 cm)

**Average Db:** 67.5

**Operating Temperature Range:** 0°F to 122°F (-18°C to 50°C)

**Display:** Bright LED (6 character, 1.2 cm H)

**Elapsed Time:** DD:HH:MM up to 168 hours

**Flow Control:**
- Adjustable from keypad between 10-35 LPM

**Flow Accuracy:** ±4.0% of Full Scale

**Factory Settable Reference T and P**
- Classical STP 0°C, 1 ATM
- Normal T and P 20°C, 1 ATM
- Modified Normal T and P 70°F, 1 ATM
- Standard Ambient T and P 25°C, 1 ATM

**OPTIONS:**
- Data Storage Device (P/N: 232FCDSD)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)
- Combination Filter Holder with Rain Hood
  - 47mm Particulate / C Geometry – FJ-47RH
  - 50mm Particulate / C Geometry – FJ-50RH

**Standard Combination Filter Holders Available:**

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**Available Engineering Units for Flow and Volume:**
- sccm / scc
- SLPM / SLP
- SCFM / SCF
- SCMH / SCM

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Flow / Volume: SLPM/SL

Flow: 28.5
EMERGENCY RESPONSE SAMPLING SYSTEM  
Digital Flow Meter Technology  
F&J Model DF-75L-400-Li

NOTABLE FEATURES:

• State-of-the-Art Electronics  
• Operating Modes  
  — Line Power (100VAC – 250 VAC)  
  — On-Board Batteries  
  — Auxiliary 12-15 VDC power source  
• Long-lasting Lithium-Ion Battery  
• Internal battery charging system operable from line power input  
• Lightweight — ~21 lbs. (9 kg)  
• Maximum Flow 15 to 75 LPM Maximum; typical  
• Bright LED Display  
• Automatic Flow Control Feature  
• Flowrate and Volume totalizations displayed are corrected to a factory settable Reference Temperature and Pressure (4 options available)  
• Auto shut-off on time or volume  
• Battery Life Indicator

GENERAL DESCRIPTION:
F&J Model DF-75L-400-Li is a lightweight, small footprint, DC voltage powered air sampling system operable from (1) on-board 20 Ah Li Ion battery, (2) line power, or (3) auxiliary DC connector (12 – 15 VDC)

The DF-75L-400-Li is well suited for emergency response sampling activities where users do not know whether line power will be available. Typical operating time from on-board battery is approximately 8 - 10 hours when utilizing FP47M glass fiber filter paper.

This air sampler can be utilized with the optional rain shield filter holder system for use when rain or snow conditions exist.

The automatic flow control feature with the F&J Digital Flowmeter technology provides maximum flexibility for emergency response sampling responsibilities. The set flowrate is maintained automatically in case of dust loading and does not require operator attention. The air sampler is contained in a lightweight small dimensioned enclosure which is water tight. The unit can be carried very easily by its large, rugged plastic handle.

Typical flow range is 15 - 75 SLPM (0.5 – 2.6 SCFM).
DF-75L-400-Li Battery Powered Air Sampler Specifications

**Pump Type:** Dual diaphragm high efficiency

**Maximum Flowrate:** 75 LPM typical with FP-47M glass fiber media

**Power Source:**
- Internal – Li Ion; 14.8 VDC/20 Ah Battery Pack
- External – Line Power; 100VAC to 240VAC
  - Auxiliary 12 to 15 VDC input

**Battery Charging System:**
- Internal system which charges from line power.

**Operating Time on Batteries:** ~ 8-10 hours

**Current Draw:** 3 A maximum

**Filter Holder Fitting:** 3/8 FNPT quick disconnect

**Handle:** Durable plastic

**Weight:** 21 lbs. (9 kg)

**Dimensions:** 16.8”L × 9.0”W × 14.0”H
(42.7 × 22.9 × 35.6 cm)

**Average Db:** 67.5

**Operating Temperature Range:** 0°F to 122°F
(-18°C to 50°C)

**Display:** Bright LED (6 character, 1,2 cm H)

**Elapsed Time:** DD:HH:MM up to 168 hours

**Flow Control:**
- Adjustable from keypad between 15-75 LPM

**Flow Accuracy:** ±4.0% of Full Scale

**Factory Settable Reference T and P**
- Classical STP 0°C, 1 ATM
- Normal T and P 20°C, 1 ATM
- Modified Normal T and P 70°F, 1 ATM
- Standard Ambient T and P 25°C, 1 ATM

**Standard Particulate Filter Holders**

**Available Engineering Units for Flow and Volume:**
- sccm / scc
- SCFM / SCF
- SLPM / SLP
- SCMH / SCM

**OPTIONS:**
- Data Storage Device (P/N: 232FCDSD)
- 2 GB Secure Digital Card (P/N: 372239)
- Flash card Reader (P/N: SDDR-199-A20)
- Combination Filter Holder with Rain Hood
  - 47mm Particulate / C Geometry – FJ-47RH
  - 50mm Particulate / C Geometry – FJ-50RH
- External 36Ah lead acid Battery Bank
  (P/N: BATBANK-12V)

**Indoor use**

**Standard Combination Filter Holders Available:**

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<tr>
<td>FJ-53P</td>
<td>F&amp;J Model M</td>
<td>47 mm</td>
</tr>
</tbody>
</table>

**Digital Flow Meter Keypad/Display**

- Flow / Volume: SLPM/SL
- Indoor use
Images of DF-40L-400-Li and DF-75L-400-Li

Outdoor use configuration

Indoor use configuration
IMAGES OF DF-40L-400-Li AND DF-75L-400-Li

Front View

Air Sampler connected to BATBANK-12 portable battery bank

Inside View
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

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

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

Filter Paper
- Glass Fiber
- Cellulose
- Membrane
- Quartz

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