DATASHEET

LineUP Flow EZ™

Flow controller for pressure-based fluid control



INTRODUCTION

The Flow EZ™ is the most advanced system available for pressure based flow control. The compact device stands alone near the microfluidic setup, allowing the user to minimize bench space use without the need of a PC. Be operational and generate data rapidly.

Easy to use

Control with or without a PC

Modular & Adaptable

Intuitive software including SDK for customized applications

Compact

PRESSURE RANGES

Part number	Pressure range	Required pressure supply	Maximum pressure supply
LU-FEZ-0069	**0 to 69 mbar** (0 to 1,0 psi)		
LU-FEZ-0345	**0 to 345 mbar** (0 to 5,00 psi)	1100 mbar (15,95 psi)	1300 mbar (18.85 psi)
LU-FEZ-1000	**0 to 1000 mbar** (0 to 14,50 psi)		1400 mbar (20.3 psi)
LU-FEZ-2000	**0 to 2000 mbar** (0 to 29,01 psi)	2100 mbar (30,46 psi)	2600 mbar (37.7 psi)
LU-FEZ-7000	**0 to 7000 mbar** (0 to 101,5 psi)	7100 mbar (103,0 psi)	7400 mbar (107.32 psi)
LU-FEZ-N069 *	**0 to -69 mbar** (0 to -1,0 psi)		
LU-FEZ-N800 *	**0 to -800 mbar** (0 to -11,6 psi)		



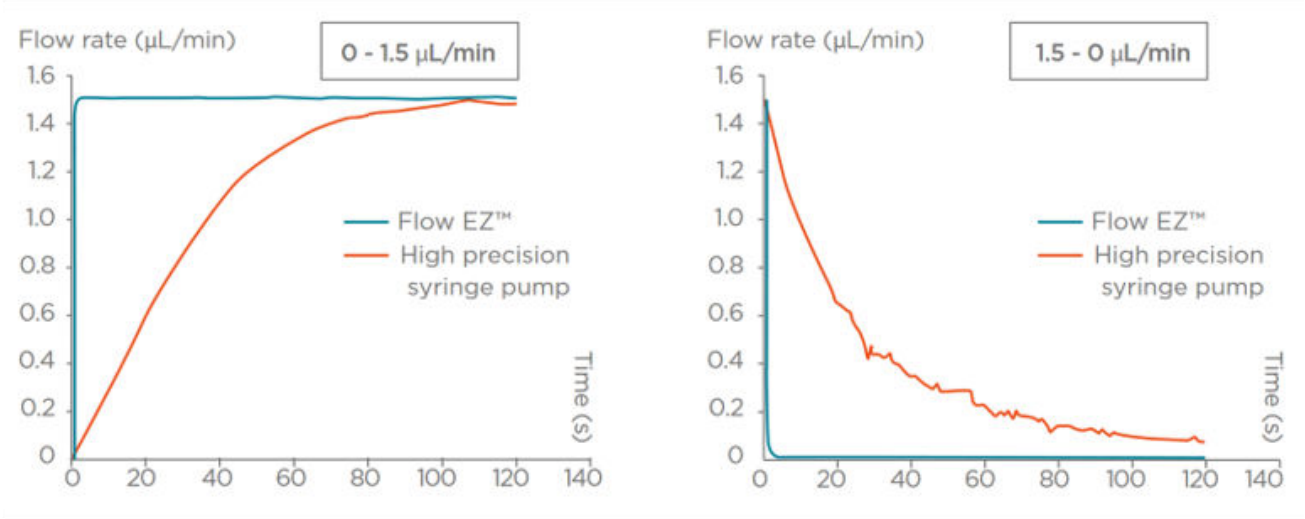
** For negative version of the Flow EZ™, Prevent any liquid from entering the device. A backflow filter or liquid trap reservoir can be used to avoid liquid flowing into pneumatic tubing.*

SPECIFICATIONS

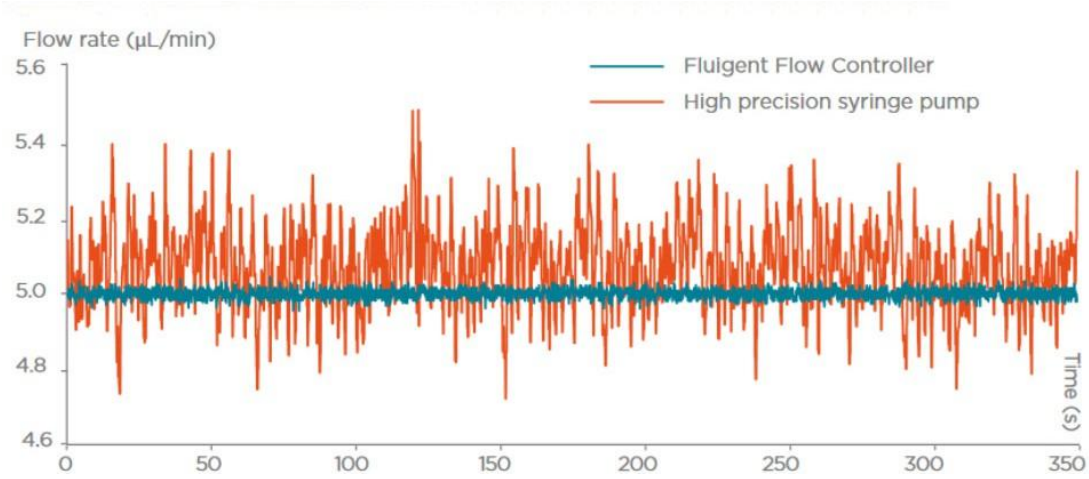
Performance	
Resolution	0,03% of maximum pressure
Pressure stability	0,1% on the measured value (effective beyond 10% of the maximum pressure)
Accuracy	0,25% full scale
Repeatability	<0,01% full scale
Response time	Down to 30 ms
Noise	Low noise <20 dB
Standard Operating Conditions	
Operating temperature	20°C (68°F)
Operating humidity	40% HR
Dimensions & Weight	
Dimensions L*W*H	91,9 * 71,8 * 131 mm
Weight	634 g
Electronical Specifications	
Power consumption	6 W
Chemical Compatibility	
Gas compatibility	Dry, oil-free gas, air (N2 , O2 , CO2), any non corrosive or non explosive gas
Liquid compatibility	Aqueous solvent, oil, organic solvent, biological sample
Storage Conditions	
Storage temperature	0° to 40°C
Storage humidity	0-85% HR
Software Compatibility	
Fluigent software	OxyGEN
	Software Development Kit (SDK)
Firmware compatibility	Link module: v3.51 Flow EZTM module: v5.53 or v3.63*

*If you have older version and facing some issues please contact us at support@fluigent.com to for an update of your Link or Flow EZ™ module.

RESPONSE TIME



PRESSURE STABILITY



SOFTWARE COMPATIBILITY



The **LineUP series** modules are compatible with **Fluigent's** newest software applications:

- **OxyGEN:** Complete interface to easily control, monitor, record data and automate time based protocols for all Fluigent instruments.
- **Software Development Kit:** Integrate Flow EZ™ seamlessly in existing applications. Available in C++, Labview, Matlab, Python, etc.

Features	FLUIGENT Flow EZ™	Other Pressure-Based Solutions	Syringe Pumps
Free standing (no PC needed)	✓	✗	~
Modular & expandable	✓	✗	~
Short response time	✓	~	✗
Pulseless flow	✓	✓	✗
Control & monitor display	✓	~	~
Very low gas consumption	✓	✗	NA
Compact	✓	~	✗

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