



An Ingersoll Rand Business



PRECISION PUMPING, SIMPLIFIED.

FlexStream FS800 Peristaltic Pump

The ILC Dover FlexStream FS800 peristaltic pump introduces a modern option with the operator in mind. The FS800 offers a high visibility 7 inch touchscreen, broad tube compatibility, and the reliability expected from an Ingersoll Rand product. Assembled in the USA.

FlexStream by ILC Dover

Engineered for bioprocessing, pharmaceutical, and industrial applications, the FS800 carries an IP66 protection rating, ensuring reliable performance even in harsh operating environments.

- Intuitive 7-inch capacitive color touchscreen interface for easy, glove-friendly operation
- Five operating modes for flexible performance: Flow, Volume, Timed Dispense, Programming, and External Control
- Integrated open-lid safety sensor for enhanced operator protection
- RS-485 and RS-232 communication support with Modbus protocol compatibility

Specifications of FS800

General Data

Parameter	Specification
Drive Series	FlexStream
Motor Type	Servo
Operating Method	Touch screen control + 4 function keys
Torque	7N.m
Voltage Frequency	100 - 240VAC 50/60Hz
Power	<400W
IP Rating	IP66
Storage Temperature	-4 to 149°F (-20 to 65°C)
Operating Temperature	32 to 104°F (0 to 40°C)
Dimensions	14.6in x 10.4in x 11.6in (370mm x 265mm x 295mm)
Weight	44 lbs (20 kg)
Display	7-inch color LCD
Housing Material	Polyester powder-coated aluminum
Language	English
Agency	UL, CE
Warranty	3 Years

Performance Data

Parameter	Specification
Drive Speed Range	0.1-265 rpm
Drive Speed Adjustment Resolution	0.1 rpm
Pump Head Model	DTL800
Number of Rollers	2
Number of Channels	1
Minimum Flow Rate	1 ml/min @ 0.1 rpm
Maximum Flow Rate	21 l/min @ 265 rpm
Compatible Tubing Type	Continuous tubing
Compatible Tubing Wall Thickness	3.2mm
Compatible Tubing Bore Sizes	ID 6.4mm / ID 9.6mm / ID 12.7mm / ID 15.9mm

Flow Rates (L/min)*

Tube Material: Silicone

Tubing bore size x wall thickness mm (inches)	6.4 x 3.2 (1/4 x 1/8)	9.6 x 3.2 (3/8 x 1/8)	12.7 x 3.2 (1/2 x 1/8)	15.9 x 3.2 (5/8 x 1/8)
0.1 rpm	0.001	0.003	0.005	0.008
50 rpm	0.663	1.5	2.5	4.0
100 rpm	1.3	2.9	4.9	8.0
150 rpm	2.0	4.4	7.4	12.1
200 rpm	2.7	5.8	9.8	16.1
265 rpm	3.5	7.7	13.0	21.3

Tube Material: Pharmed® BPT

Tubing bore size x wall thickness mm (inches)	6.4 x 3.2 (1/4 x 1/8)	9.6 x 3.2 (3/8 x 1/8)	12.7 x 3.2 (1/2 x 1/8)	15.9 x 3.2 (5/8 x 1/8)
0.1 rpm	0.001	0.003	0.005	0.008
50 rpm	0.670	1.5	2.6	3.9
100 rpm	1.3	2.9	5.2	7.7
150 rpm	2.0	4.4	7.9	11.6
200 rpm	2.7	5.8	10.5	15.4
265 rpm	3.6	7.7	13.9	20.4

*Flow values are based on nominal samples, tested with water.

Functional Parameters

Operating modes	Flow, Volume, Timed Dispense, Program Dispense, External Control
Flow & Speed Display	Yes
Pump Head & Tube Display	Yes
Accumulated Liquid Volume	Yes
Filling Function	Yes
Dispensing Time	0.01-99.9 sec/min/hour
Cycle Times (Filling Quantity)	1-999; 0 for infinite loop
Interval Time	0.1-999.9 sec/min/hour
Reversible Motor	Yes
Anti-Drip	0-720°
Anti-Drip Speed	265 rpm
Keypad Tone	Yes
Three-Level Security	Yes
Guard Switch Detection	Yes
External Control Signal Input	5-24V adaptive
External Control Start/Stop	Yes
External Control Direction	Yes

External Control Signal Output

External Analog Signal	0-5V 0-10V 4-20mA Software switching, no need to change lines
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Communication Method

RS-485	Yes
RS-232	Yes

Communication Protocol

Modbus-RTU	Yes
Modbus-TCP/IP	Yes



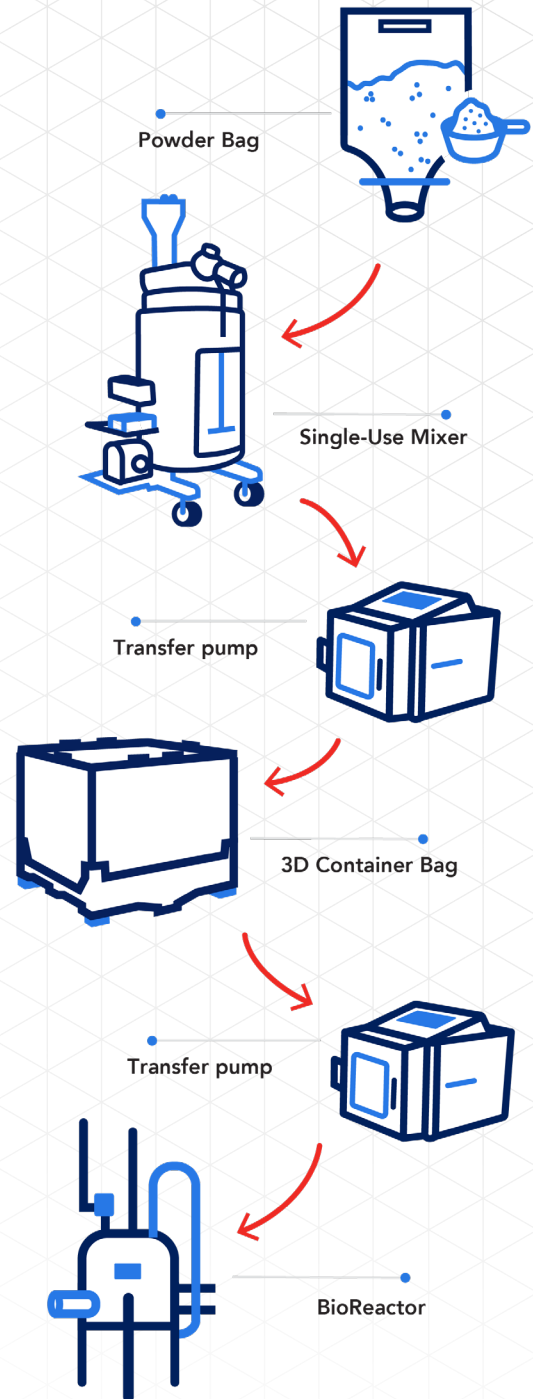
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Your Process. Our Priority.

ILC Dover, an Ingersoll Rand business, is a world leader in innovative design and manufacturing for the biopharmaceutical, pharmaceutical, medical device, and aerospace markets.

For more than 25 years, we've led the industry in single-use powder and liquid handling, solving some of life sciences' most complex workflow challenges.

We deliver engineered solutions that improve your processes—helping you efficiently produce life-saving therapies.



Choose ILC Dover's Life Science Solutions

Trust ILC Dover to deliver innovative solutions that streamline your workflow from discovery through scale-up production, supporting your commitment to positive patient outcomes.



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