

Input/Output Module (IOM)

Technical Data Sheet

The Input/Output Module allows the loading and unloading of sample tubes in racks onto and from the automation system. Racks can be loaded onto 20 different lanes, each of which is configurable for different purposes: input, output, sorting, parking, and error management. Thanks to barcode identification, each tube is traced throughout its diagnostic journey and the touchscreen-based user interface allows for easy configuration and operation of the module.

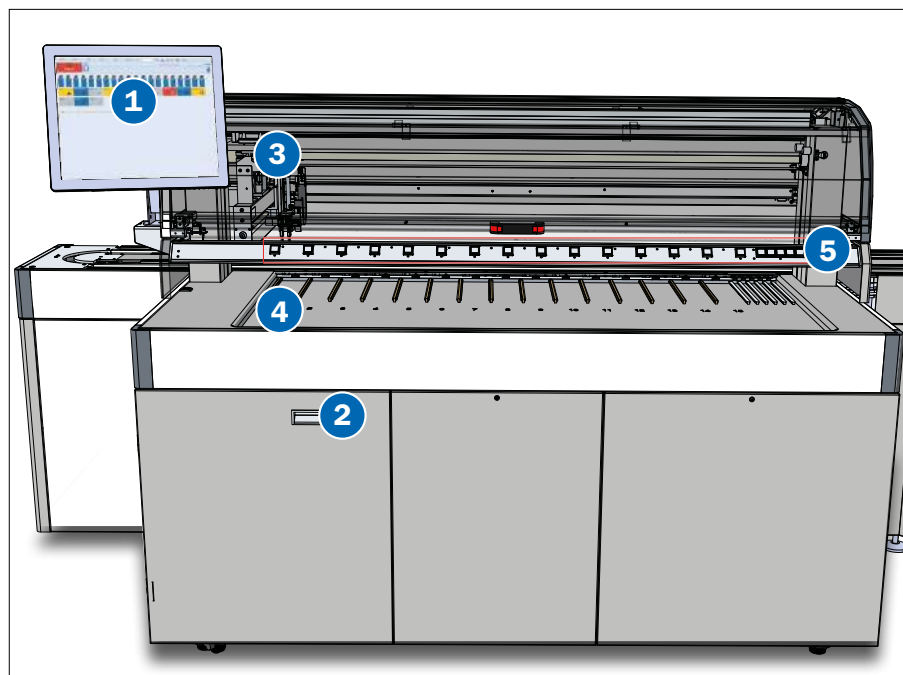


Benefits

- > Easy and reliable loading, sorting, and unloading of samples, from small to very high volumes
- > Prioritization of STAT sample tubes
- > Configurable to specific laboratory requirements
- > Full traceability of the sample journey

Applications

- > Loading of sample tubes in racks
- > Management of sample tubes in error condition
- > Sample tubes sorting in lanes specifically configured for off-track purposes



- 1 Touchscreen-based user interface
- 2 IOM door
- 3 IOM robot
- 4 Worktable
- 5 LED bar



Main Features

Throughput	750 tubes/h
Walk-away capacity	780 tubes
Tube specifications	
Sample type	All (spun and unspun)
Cap type	All (capped, uncapped, and sealed)
Dimensions (mm)	13x75, 13x100, 16x75, 16x100
Position along the automation	Depends on the designed function for the Automation

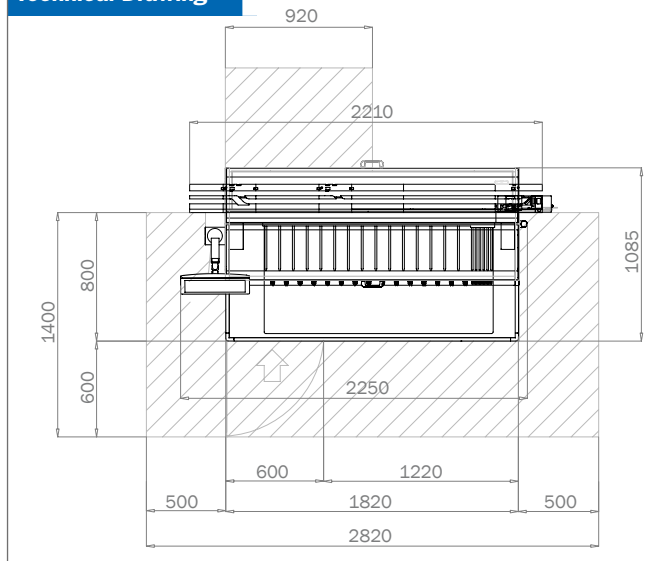
Other Features

- > The IOM provides 20 lanes to insert a total of 20 racks (15 48-tubes racks and 5 12-tubes racks uniquely identified by a Barcode ID)
- > The IOM Robot is equipped with a sample rack Barcode Reader to allow sample rack identification
- > Each lane can be designated for specific purposes (input, output, sorting, parking, and error downloading)
- > The IOM is equipped with a colored LED Bar to display each rack lane's status and settings
- > The IOM touch screen monitor allows the User to interface with the Automation System
- > The IOM is available with a Barcode Reader (BCR) or with a Tube Identification Module (TIM) for sample tube identification
- > Available with server included ("IOM Master" or without it ("IOM slave"))

Technical Specifications	BCR configuration	TIM configuration
Dimensions (LxHxD) (mm)	2250x1500x800	2250x1500x800
Main clearances (left x right x front) (mm)	500x500x600	500x500x600
Weight (Kg)	290	290
Compressed air (NL/min)	10.06	10.06 (Standard) 6.60 (HT)
Power inlet point	230 Vac	230 Vac

	BCR configuration	TIM configuration
Maximum continuous current (A)	/	/
Maximum alternate current (A)	3	3.5
Total power consumption (W)	690	805
Heat (BTU/h)	1876.8	2189.6

Technical Drawing



Module dimensions and clearances expressed in mm.

Ordinary Maintenance

Operator ¹	Weekly, monthly
Service ²	Every 30-180 days, according to operations

¹ According to Operation Manual. ² The periodicity depends also on the routine tubes/day. For more details refer to Service Manual.

Part Numbers

	FlexLab Standard	FlexLab HT
Main module	FLX-201-03	N.A.
Additional Module	FLX-253-02	FLX-253-11
Configuration	BCR	FLX-501-02
	TIM	FLX-544-02
		FLX-544-12

N.A. = Not Available.

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