Input/Output Module X Open Access (IOX Open Access)
Technical Data Sheet

The Input/Output Module X Open Access allows the loading and unloading of sample tubes in inpeco racks and third parties racks onto and from the automation system. Inpeco racks can be loaded onto 16 different lanes, each of which is configurable for different purposes: input, output, sorting, parking, and error management. Third parties racks can be loaded onto dedicated racks adapter for different purposes: input, output, sorting, parking, and error management.
Thanks to the embedded Vision System, 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 smal to very high volumes

> Priorization of STAT sample tubes

> Configurable to specific laboratory requirements

> Full traceability othe 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
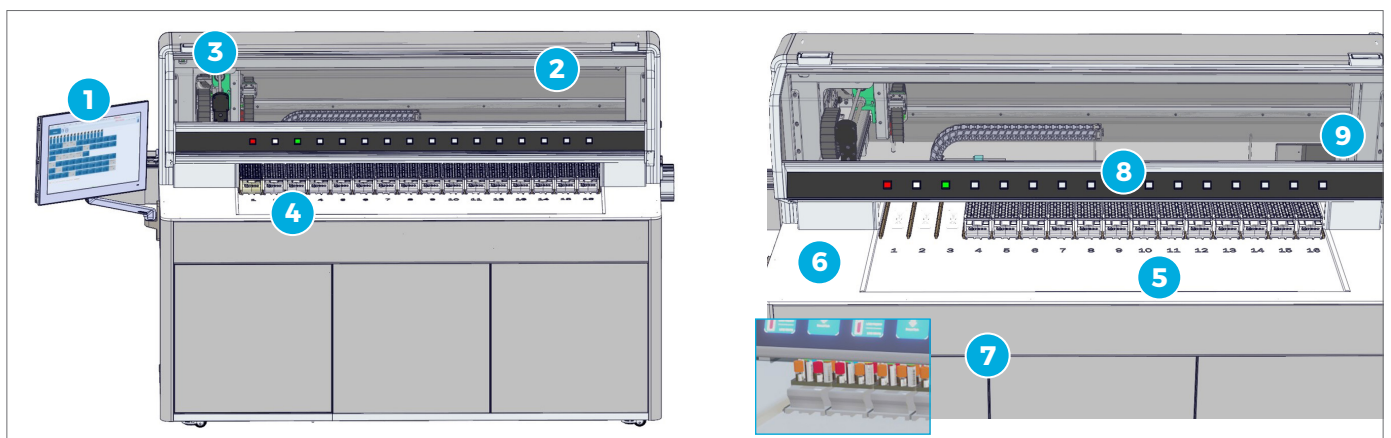
1	Touchscreen-based user interface	4	Worktable
2	Safety cover	5	Lane Number
3	Robot	6	Lane Spacer

7	Latch Sensor
8	LED Bar with buttons
9	Vision System (mVS)

Main **Features**

Throughput	1000 tubes/h Load and Unload
	600 tubes/h with tubes orientation
Tube specifications	
Sample type	All tubes allowed on track
Cap type	All tubes allowed on track
Tube dimensions	All tubes allowed on track
Position along the automation	Depends on the designed function of the Automation

The maximum throughput calculations are obtained in optimized and standardized conditions, as tested by Inpeco.

Technical Specifications

Dimensions (LxHxD) (mm)	1930x1500x770
Main clearances (left x right x front) (mm)	600x600x800
Weight (Kg)	200
Compressed air (NL/min)	4.2
Power inlet point	230 Vac
Maximum continuous current (A)	/
Maximum alternate current (A)	4.2
Total power consumption (W)	966
Heat (BTU/h)	2627.5

Technical Drawing
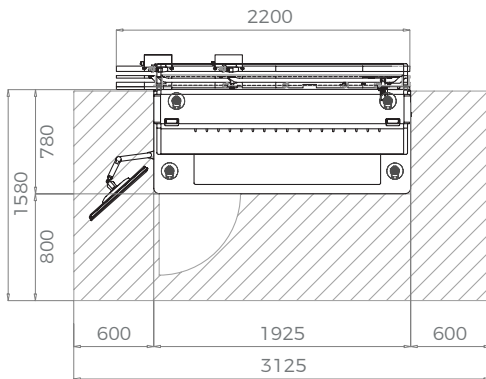
Module dimensions and clearances expressed in mm.

Other **Features**

> The IOX Open Access provides 16 lanes to insert a total of 16 48-positions racks uniquely identified by a Barcode ID
> The IOX Open Access rack is equipped with an RF-ID tag on the bottom for the sample rack identification
> Each lane can be designated for specific purposes (input, output, sorting, parking, and error management)
> The IOX Open Access is provided with a Latch Sensor to lock on the racks when inserted by Operators
> The IOX Open Access is equipped with a colored LED Bar to display each rack lane's status and settings
> The IOX Open Access is provided with a Vision System, located under the IOX Open -Access cover, for sample identification
> IOX Open Access is intended to load sample tubes on track or unload from track using third parties rack adapter
> IOX Open Access shall allow to mount the arm for a All in One pc multitouch
> The IOX Open Access shall provide the ability to the user to visually recognized the lane configuration
> IOX Open Access shall provide to the user a unequivocal visual feedback about the lane configuration mode
> When the IOX Open Access lane is configured for input purposes, the Laboratory technician shall insert only rack filled without empty positions between tubes in
> When the IOX Open Access lane is configured for output purposes, the Laboratory technician shall insert only completely empty rack
> IOX Open Access shall provide to the user a univocal visual feedback about a full rack loaded in an Output Lane
> When required by the specific analyzer, IOX Open Access shall perform sample tube orientation before unloading the tube from track to analyzer rack

Ordinary Maintenance

Operator[1]	/
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

Part Numbers	FlexLab™	FlexLab™ for High Throughput
Main module	N.A.	FLX-253-13
Slot	N.A.	FLX-544-14
*All in One PC (AI1 PC) - Optional	N.A.	3A00000884
Tray Euroimmune Workstation	N.A.	0A00034911.02
Tray Helena ESH	N.A.	0A00034635.03
Tray Beckman Coulter AU680 Ø13X75-100	N.A.	0A00034842.02
Tray Beckman Coulter AU680 Ø16-100	N.A.	0A00035013.01
Beckman Biomek Ø13X100**	N.A.	0A00036401
Beckman Biomek Ø13X75**	N.A.	0A00036519
Perkin Elmer Auto-delfia Ø13X75-100 (uncapped)**	N.A.	0A00036402

N.A. = Not Available.
*All In One PC, MUST be ordered. It is not provided with the IOX OA as default.
** For this racks adapter, Extended Fingers Carriers are strictly recommended. PN 0A00027144