

# **Over-Underpass Module (OUM)**

## Technical Data Sheet

The Over-Underpass Module (OUM) ensures the transfer of samples between different automation track areas of big laboratories, facilitating the free movement of people throughout the facility. The module is equipped with two elevators and a dedicated track section above the main track to transfer sample tubes (capped and uncapped) and empty carriers from one area to the other, with bidirectional carrier flow.

#### The OUM can connect:

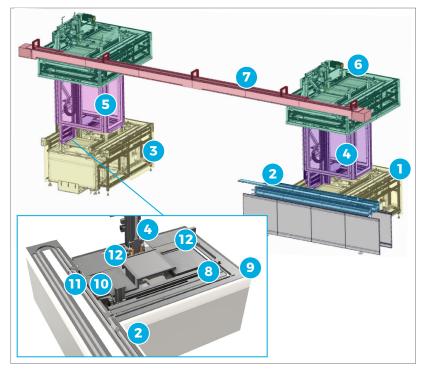
A. Two sections of the same automation system

B. Two different automation systems



#### **Benefits**

- > Enables free movement of people throughout the lab
- > Automatic sample tubes transportation between different sections of the same automation track or different automation tracks
- > Maintenance and guarantee of sample tubes traceability after the transfer between different sections of the same automation track or different automation tracks
- > Transfer to OUM does not generate sample resuspension
- > Easy sample routing to the connected track with OUM when modules and/ or analyzers of the original track are not available due to maintenance or other technical operations



## **Applications**

- > Connection between different automation areas installed on the same lab
- > Connection between different automation tracks at the same lab floor to complete specific testing not available in one of the two automation systems
- 1 Main Floor
- 7 Auxiliary Track
- 2 Buffer Lane
- 8 Entry Bay
- 3 Tower
- 9 Entry Pit Lane
- 4 Elevator
- 10 Exit Bay
- 5 Elevator Shaft
- 11) Exit Pit Lane

Movers

6 Auxiliary Floor

#### Main Features

Up to 1000 tubes/h (both Throughput directions) Walk-away capacity Tube specifications Sample type Spun and Unspun Cap type Capped and Uncapped Dimensions (mm) 13x75, 13x100, 16x75, 16x100 Position along the Depends on the designed automation function for the automation

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

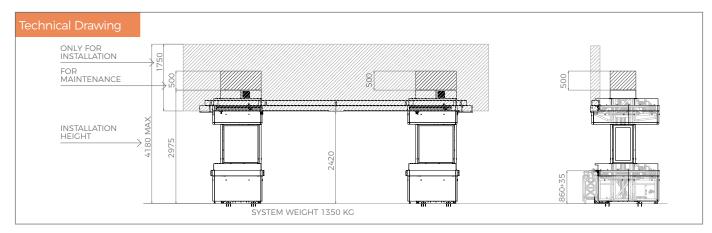
### Other Features

- > The OUM is made of two Towers connected with an Auxiliary Track located above the main track, to move carriers from one side to the other
- > The Tower is equipped with an elevator which travels between two floors, where carriers are loaded and unloaded
- level) and the Auxiliary Floor (at the auxiliary track level)
- > A floor features two bays, surrounding the Elevator Shaft: an Entry Bay to unload carriers from the track and an Exit Bay to load them on the track
- > Movers allow to transfer carriers:

  - · from the elevator to the Exit Bay and then to the Exit Pit lane on the other side

Dimensions (LxHxD) (mm) 1300x2975x1580(singletower) 800x800x800; minimum height for opera-Main clearances tor's walking is 2400 mm (left x right x front) (mm) minimum width for operator's walking is 2250 mm Weight (Kg) 1530 Compressed air (NL/min) 38 12 230 Vac Power inlet point

Maximum continuous current (A) Maximum alternate 4.2 current (A) Total power consumption (W) 966 Heat (BTU/h) 26275



Module dimensions and clearances expressed in mm.

Part Numbers	FlexLab™	FlexLab™ for High Throughput	Ordinary Maintenance	
Interface	N.A.	FLX-261-10	Operator <sup>1</sup>	/
Slot	N.A.	FLX-561-10	Service <sup>2</sup>	Every 90-180 days, according to operations

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

### Inpeco SA

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N.A. = Not Available.





