

## Sample Integrity Module (SIM)

### Technical Data Sheet

The Sample Integrity Module is a pre-analytical module to detect the volume and the upper and lower levels of serum/plasma, and to estimate the serum indexes (HIL – Hemolysis, Icterus, Lipemia). HIL values provided by the Sample Integrity Module can be used to discriminate the quality of sample tubes, without requiring any mandatory confirmation tests by specific analyzers.

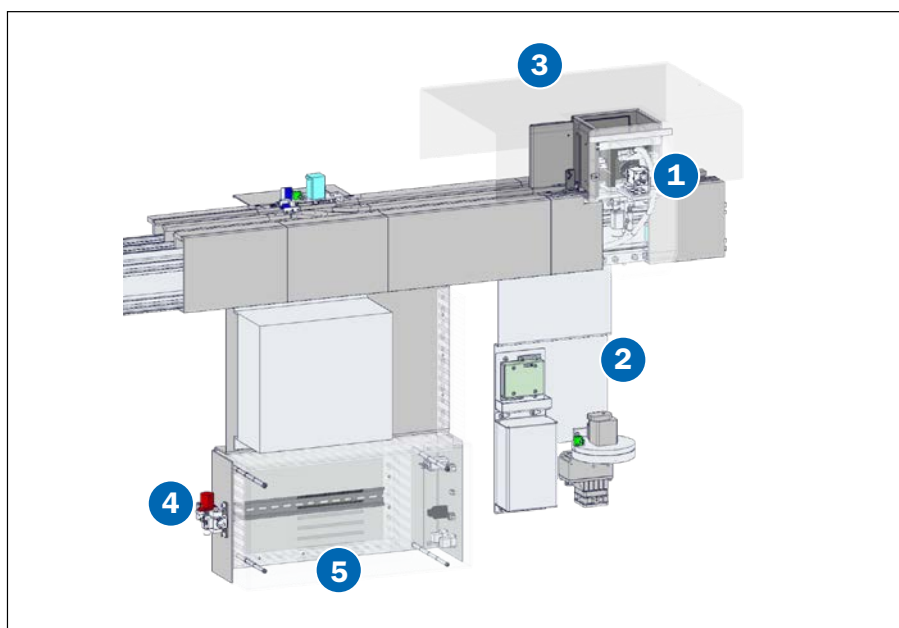


### Benefits

- > Avoiding useless workload for analysis invalidated by Serum/Plasma volume and threshold levels detection
- > Avoiding useless workload for analysis invalidated by Serum/Plasma HIL qualitative indexes estimation
- > Saving analyzers reagents waste and thus reducing costs

### Applications

- > Early checking and evaluation of Serum/Plasma volume, levels, and HIL indexes before analysis



- 1 Vision System
- 2 HIL illumination kit
- 3 Upper Covers
- 4 Safety Device
- 5 Electrical Assembly



## Main Features

Throughput	650 tubes/h
Walk-away capacity	/
Tube specifications	
Sample type	Spun
Cap type	Capped and Uncapped
Dimensions (mm)	All allowable, 13x92 false bottom included
Position along the automation	In the Preanalytical Area, after centrifuge modules

## Other Features

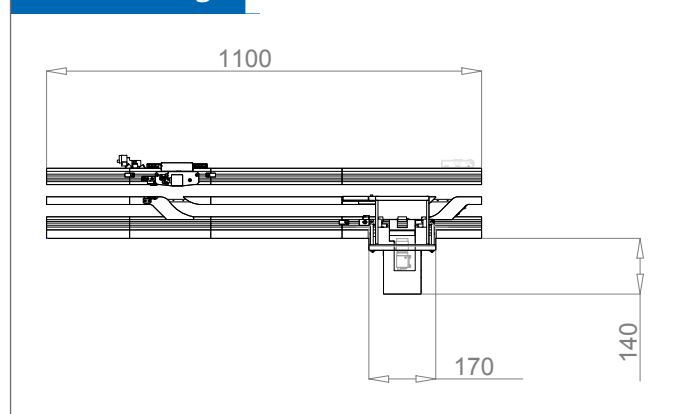
- > SIM camera captures images of tubes, illuminated with different light conditions
- > SIM has a back LED panel for tube type identification
- > SIM has a front illuminator to identify inspection window for serum/plasma volume measuring
- > SIM has an HIL illumination kit for HIL estimation
- > The definition of acceptance ranges for the three indexes allows the discrimination of the serum/plasma quality of sample tubes
- > Different acceptance thresholds for H, I, and L indexes can be defined according to the analyzer able to perform HIL tests and to the Laboratory requirements
- > If an analyzer with the HIL test is present on the automation system, the decision to perform a confirmative HIL test depends on the Laboratory needs
- > SIM has a PC with its own software

### Technical Specifications

Dimensions (LxHxD) (mm)	170x0x140
Main clearances (left x right x front) (mm)	/
Weight (Kg)	25
Compressed air (NL/min)	3.02
Power inlet point	230 Vac

Maximum continuous current (A)	/
Maximum alternate current (A)	1
Total power consumption (VA)	230
Heat (BTU/h)	625.6

### Technical Drawing



### Ordinary Maintenance

Operator <sup>1</sup>	/
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.

### Part Numbers

	FlexLab Standard	FlexLab HT
Main module	N.A.	FLX-056-10

N.A. = Not Available.

## INPECO SA

Via Torraccia 26  
6883 Novazzano - Switzerland  
www.inpeco.com

