

ATRAS R4 Base Unit

THE FOUNDATION FOR EFFICIENT SAMPLE RECEPTION.



The ATRAS R4 Base Unit is the core of every ATRAS configuration, enabling a structured and automated sample reception workflow. It consists of a separation module with bulk input and two bulk target bins.

Once samples have been loaded manually, ATRAS separates and registers each tube, retrieves the relevant sorting instructions from the LIS and routes the samples accordingly. This reduces manual handling and streamlines the workflow right from the start.

Thanks to its modular architecture, the system can be tailored to your laboratory's requirements and adapted as your needs evolve.

THROUGHPUT

3,000

SAMPLES/HOUR

FOOTPRINT

0,45

M²

WEIGHT

156

KG approx.

SPEZIFIKATIONEN

Dimensions (WxHxD)	750 x 1,150 x 600 mm
Barcode types	all common 1D barcode formats
Sorting criteria	standard: barcode <i>optional: cap colour, tube length and diameter, piston detection and centrifugation status</i>
Communication Interface	LIS, Ethernet
Sample input	via bulk input, InTrac and/or external sample transport systems ¹
Sample orientation	integrated tube rotator for automatic positioning
Sample output	into bulk target bins, via conveyor and/or InTrac for downstream processing

¹ Compatible with Swisslog OpenLog, Aerocom AirLab and SARSTEDT Tempus600. Connections to additional systems are available on request.

REQUIREMENTS

Ambient temperature	15°C –32°C
Power consumption	250 VA
Supply voltage	100–240 V
Frequency	50–60 Hz
Power connection	IEC C14

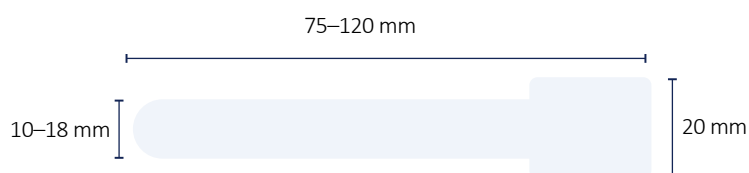
CAPACITY

Capacity per target bin	150–200 samples
Capacity external SIQ bin	up to 120 samples
Input hopper capacity	700 samples

Tube dimensions

Sample tubes must comply with the dimensions shown below.

To ensure smooth and reliable process, tubes should be filled to an adequate level, labels should be positioned centrally on the tube, only one barcode should be applied, and the number of labels should be kept to a minimum.



Length (including cap)	75–120 mm
Tube diameter (without cap)	11–18 mm
Maximum cap diameter	20 mm

Optional Features

STAT Input

Prioritized feeding of STAT samples during routine operation with digital STAT identification.

Piston detection

Automatically recognizes insufficiently filled aspiration samples to prevent interruptions in downstream analyzers.

Centrifugation status

Detects whether a sample has already been centrifuged to ensure routing to the appropriate subsequent process.

CapID

Cap color detection using a spectrometer (CapID). Colors can be individually trained and configured.

Pneumatic Tube System Integration

Flexible integration of pneumatic tube systems with the ATRAS R4.

Additional target bins

Additional target bins enable quick exchange and ensure uninterrupted, continuous sample processing at the sample reception area.

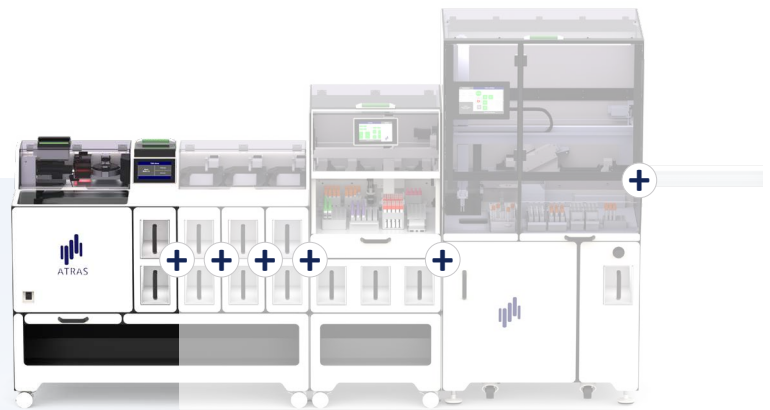
Sample archiving

Barcode identification of the target bins records where each sample is archived, ensuring complete traceability.

Flexible and scalable

ATRAS provides a configurable pre-analytical solution² that integrates seamlessly into existing laboratory environments. Its modular design allows the system to grow with your requirements, without tying you to a specific manufacturer.

Expand the Base Unit with additional Bulk Output modules, the compact Racksorter, the CSpin centrifugation module and/or the InTrac short-distance transport system.



Modules flexibly combined to suit your workflow.



Up to 10 Bulk Output modules:
fast sorting of large sample volumes



Up to 4 CSpin modules:
continuous, high-throughput centrifugation



Up to 3 Racksorter modules:
space-saving rack sorting



InTrac connection:
continuous sample supply to ATRAS or automated
transfer to the next workflow step

²Expansion options and module combinations depend on the specific system setup. Contact us to find the configuration that best fits your laboratory workflow.

