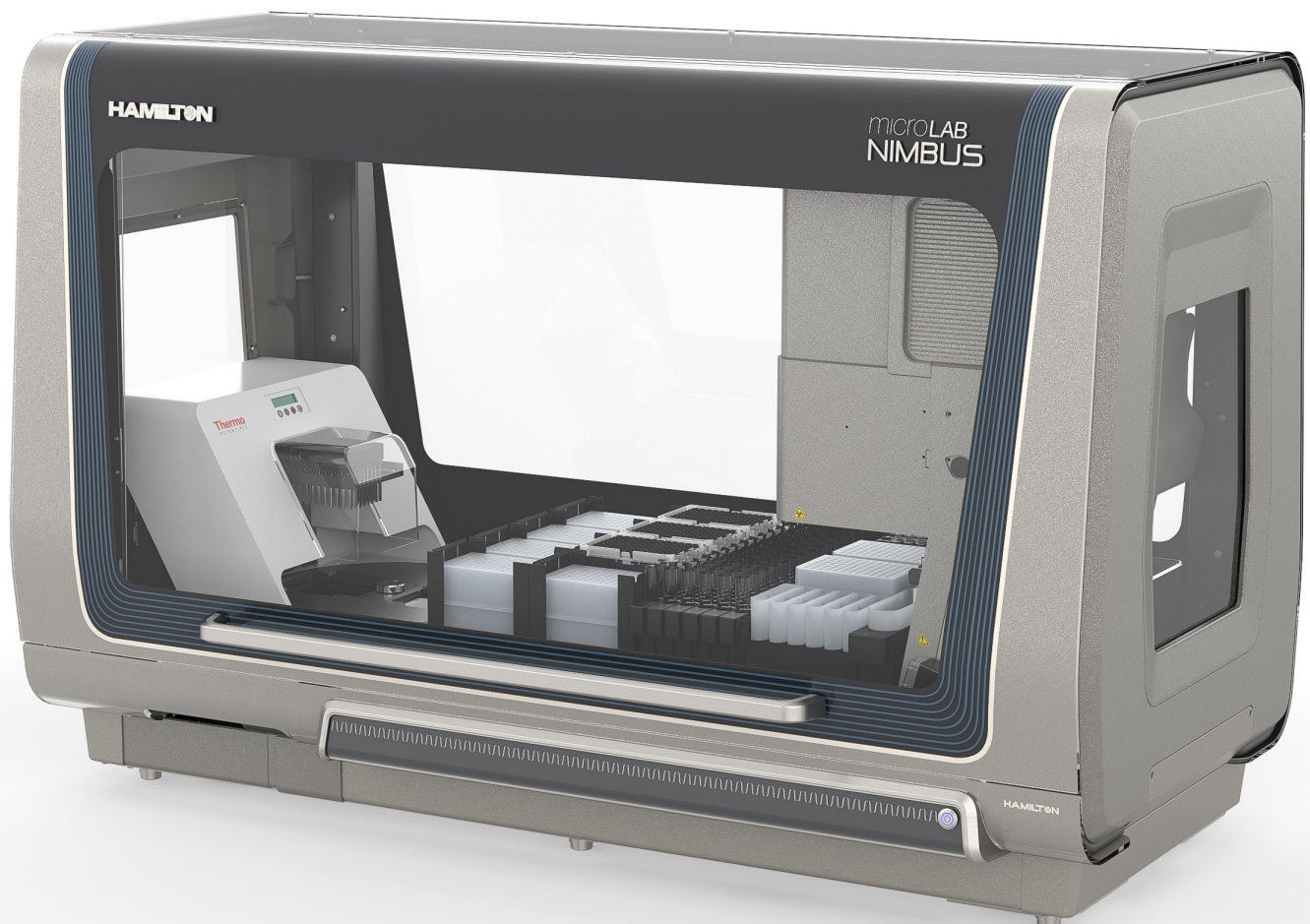


# NIMBUS<sup>®</sup> Presto

Because Nucleic Acid Extraction is Key



## **Integrated**

KingFisher™ Technology



## **Efficiency**

Time savings, due to parallel-processing



## **Compact**

Small foot print saves lab space



# Compact. Efficient. High-Throughput Automation.

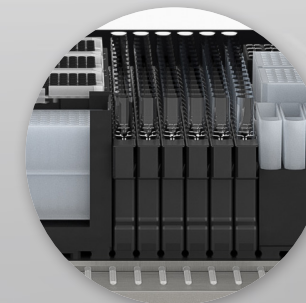
- **Fully-automated Nucleic Acid Extraction and Protein Purification**
- **Barcode Reader for sample tracking**
- **Integrated plate transports with CO-RE® Paddles for plate handling**
- **Loading area for up to 96 samples from various starting materials (blood, saliva, FFPE, etc.)**
- **Qualified methods**

NIMBUS® Presto with KingFisher™ technology is a fully-automated sample extraction solution for achieving high-quality nucleic acid and protein purification. NIMBUS® Presto combines the Microlab® NIMBUS® for automated liquid handling with an integrated Thermo Fisher Scientific™ KingFisher™ Presto, resulting in a powerful tool for sample purification.

Utilizing proven KingFisher™ magnetic particle-based technology to provide high-quality yields of target nucleic acids and proteins, the compact footprint of NIMBUS® Presto is optimized for automated workflows and saves space in your lab. The KingFisher™ Presto offers interchangeable magnetic heads



Loading KingFisher™ Presto (1)  
with CO-RE® Paddles (3)



Loading Area  
Example (2)



Barcode  
Reading (4)

for processing 24- or 96- well plates. A dual-position turntable allows for the processing of one plate with the magnetic head while the NIMBUS® simultaneously prepares and transports another plate to the KingFisher™ Presto, using CO-RE® Paddles. This parallel-processing capability results in an increase to both throughput and walk-away time. NIMBUS® Presto is a flexible solution for a wide variety of applications, throughput, and reagent needs. Extracting 96 or 24 samples at

a time with a volume range of 50 – 5000 µL, NIMBUS® Presto is capable of DNA, RNA, cfDNA, and protein extraction from various sample types. Each nucleic acid extraction method is optimized and qualified in collaboration with important research centers and industry-leading partners such as Thermo Fisher Scientific™, MACHEREY-NAGEL, Omega Bio-Tek, and Promega. Further collaborations with leading companies in the market are upcoming.

## Workflow

from sample-to-result



**Barcode  
Reading**



**Sample  
Lysis**



**Magnetic  
Bead-based  
Binding of  
Target Molecules**



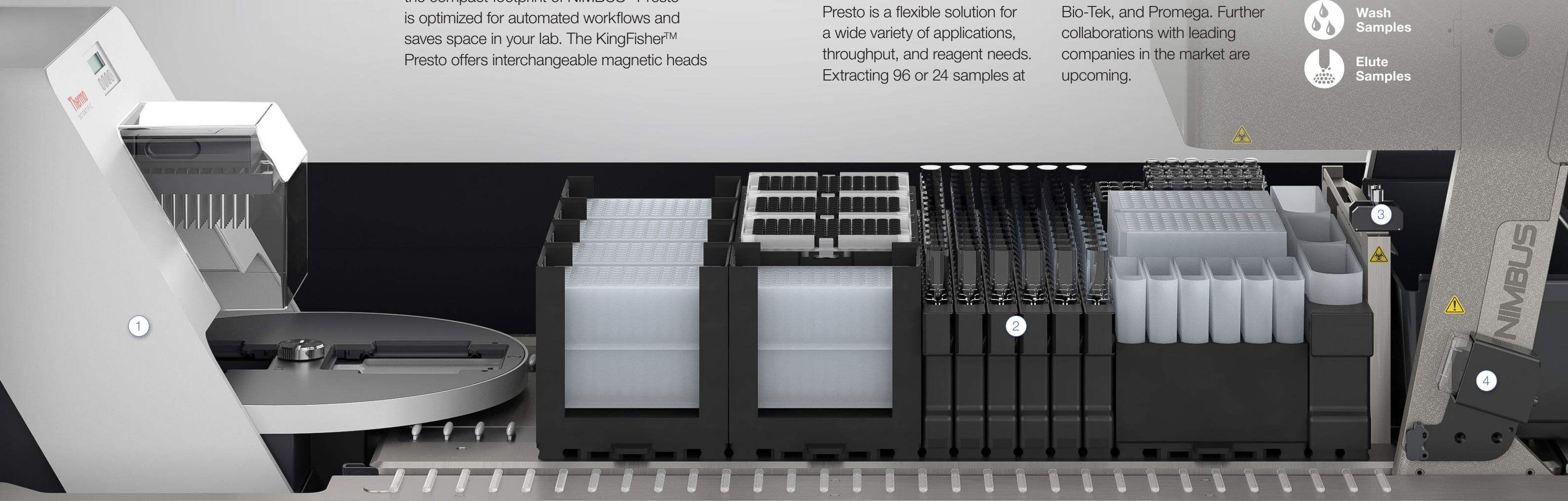
**Pipette  
Reagents**



**Wash  
Samples**



**Elute  
Samples**

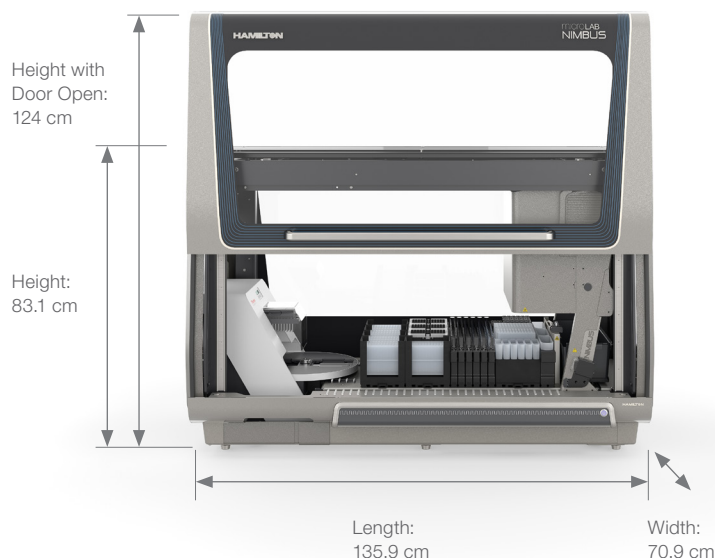




# Specifications

## Physical Dimensions and Power Output

Description	Measurement
Length	135.9 cm
Width	70.9 cm
Height	83.1 cm
Height with Door Open	124 cm
Weight	136 kg approx.
Input Power	100-240 VAC, 50-60 Hz, 5 A
Output Power	42 VDC, $\pm$ 5%; 600 W max



## System Specification

Description
+15 - +35°C
Humidity: 15%-85% with no condensation
Altitude: 0-2000 m above sea level

## Pipetting Channels Specification

Description
CO-RE® Technology
Independent Channels
Capacitive Liquid Level Detection (cLLD)
Pressure Liquid Level Detection (pLLD)
Tip Type Detection

## Pipetting Volumes Specification

Tip Size	Precision CV (%)
50 $\mu$ L	1 $\mu$ L Volume ([R] 5%; CV 4%)
300 $\mu$ L	50 $\mu$ L Volume ([R] 2%; CV 0.75%)
1000 $\mu$ L	100 $\mu$ L Volume ([R] 2%; CV 0.75%)

## Ordering Configurations (Optional)

Description	Units	Part Number
<b>Hamilton Labware</b>		
50 $\mu$ L Filter Tips		235948
1000 $\mu$ L Filter Tips		235905
60 mL Reagent Troughs		56694-01
200 mL Reagent Troughs		56695-01
<b>Hamilton Accessories</b>		
2 mL Microtube Inserts for Small Tube Carrier (Set of 32)	3	96822-01
2 mL Microtube Inserts for Small Tube Carrier (Set of 32)	3	188102
2 mL Microtube Inserts for Large Tube Carrier (Set of 24)	4	188465
<b>KingFisher™ Presto Heads</b>		
KingFisher™ Presto 96 Well Head		10102429
KingFisher™ Presto 24 Well Head		10102427

## Ordering Configurations

Description	Units	Part Number
<b>A) NIMBUS® Presto Base</b> + Barcode Reader + CO-RE® Paddles	1	49000-38
<b>B) Standard PC Win10,US + USB</b>	1	10113952
<b>C) Sample Loading Options</b>		
L-Tube Carrier	6	6601692-01
S-Tube Carrier	6	6601693-01
Carrier, STD 6T, NIMBUS® HD	1	6602910-02
Pedestal, DWP, NIMBUS® HD	4	6602801-02
<b>D) KingFisher™ Presto Instrument</b>		
KingFisher™ Presto 96 Well Head		10102396
KingFisher™ Presto 24 Well Head		10102428

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