

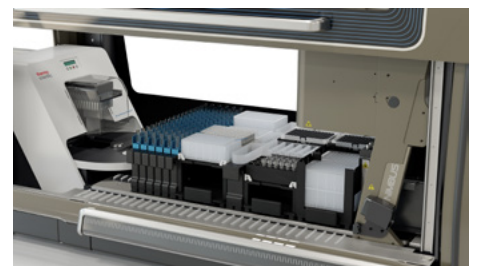


Automated purification

Reclaim your time and keep answers flowing with an automated, set-up-and-go system

Easily purify DNA from up to 96 samples in less than 90 minutes

The automated Applied Biosystems™ HID NIMBUS® Presto System precisely purifies nucleic acids from lysed samples for use in sensitive downstream analyses, such as DNA quantification and STR amplification. The system is specifically scripted and validated for use with Applied Biosystems™ PrepFiler™ and PrepFiler™ BTA Automated Forensic DNA Extraction Kits. The rapid, hands-free processing and high-quality yields of even the most challenging samples—including bone, tooth, and touch DNA—can provide forensic labs faster turnaround times with lasting confidence in results.



Quality results with high reproducibility

- Sensitivity down to 1–2 pg/μL for various sample types, using PrepFiler automated forensic DNA extraction kits
- Minimal variation in each sample and run
- Increased process standardization
- Consistent, reliable, and accurate results from a variety of forensic sample types, including bone and touch DNA samples



Less hands-on time

- Purify DNA from up to 96 samples in less than 90 minutes
- Simple setup and workflow
- Minimal manual touchpoints to help reduce human error and contamination risk



Proven chemistries

PrepFiler and PrepFiler BTA Automated Forensic DNA Extraction Kits

PrepFiler automated extraction kits use magnetic particles with an optimized multicomponent surface chemistry to deliver superior DNA yield from standard to the most complex forensic sample types—including bone, tooth, and touch DNA.

These kits are designed to improve the overall concentration of DNA recovered from both routine and challenging samples, while enabling the removal of PCR inhibitors—delivering the performance and efficiency needed to help reduce case backlogs.



Powerful systems combined for reliable liquid handling

Fast, simple, and automated sample preparation

The system includes industry-leading automated liquid handling and superior-quality pipetting in a compact setup. The proven magnetic particle-based technology of the Thermo Scientific™ KingFisher™ Presto Purification System provides high-quality yields of target nucleic acids. These two systems, combined with an easy-to-use software, provide consistent results quickly.

Professional services to get online faster

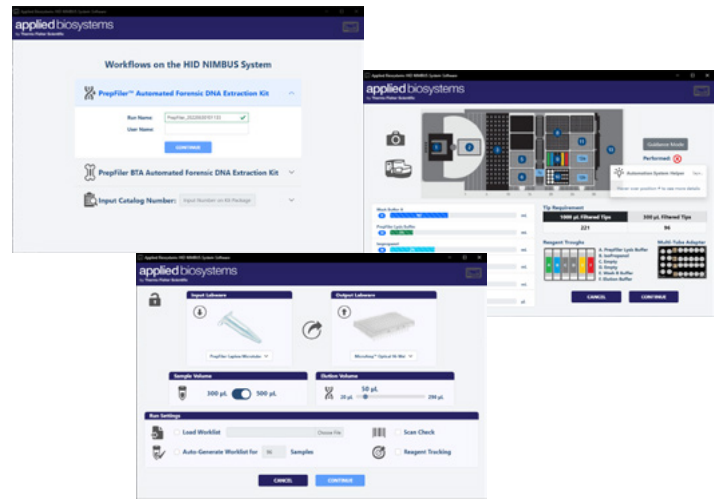
Integration, validation, and implementation support

Since 2007, the Human Identification Professional Services (HPS) team at Thermo Fisher Scientific has been supporting forensic laboratories with comprehensive validations and implementation support, both vital for bringing new technologies into operation. With a consultative approach to all services, the HPS team designs and implements the right solutions for the required laboratory workflow.

Software designed with the user in mind

Easy-to-use, visual guide tools

The Thermo Fisher Scientific custom-designed software includes visualization guides for reagent positioning, guidance mode for step-by-step setup, short tutorial videos, and images of the work deck setup. Users can initiate the purification workflow in as few as five clicks.



The HID NIMBUS Presto System includes:

- Hamilton™ Microlab™ NIMBUS® HD Liquid Handler
- KingFisher Presto Purification System
- Four independent channels
- Barcode scanner
- Laptop
- Easy-to-use software



Instrument specifications

Description	
Number of channels	4
Sample input format	1.5 mL microfuge tubes, 96-well plate, 96-deep-well plate, 96-well spin and filter plate
Sample output format	1.5 mL microfuge tubes, 96-well plate, 96-deep-well plate, 96-well reaction plate
Validated sample prep kits for HID	PrepFiler and PrepFiler BTA Automated Forensic DNA Extraction Kits
Dimensions (L x W x H)	53.5 x 27.9 x 35.0 in. (135.9 x 70.9 x 88.9 cm) with door closed
	53.5 x 27.9 x 51.2 in. (135.9 x 70.9 x 130.0 cm) with door opened
Weight	300 lbs (136 kg)
Warranty	1 year included, extended warranties available
Training	HPS for validation and verification available

Operation

Description	
Power input	100–240 VAC, 50–60 Hz, 5 A
Output power (auxiliary)	42 VDC, ±5%; 600 W maximum
Communication	Ethernet
Operating temperature	15–35°C (59–95°F)
Relative humidity	30–80% noncondensing

Storage

Description	
Storage temperature	–20°C to 50°C

Computer* and software

Description	
Memory	4 GB RAM
Processor	2.33 GHz processor
Hard drive	80 GB hard drive
Operating system	Microsoft™ Windows™ 10 OS
Graphics card	Graphics card with Microsoft™ DirectX™ 10.0 installer support
Miscellaneous	At least 1 (recommended 2) Ethernet ports (RJ45, CAT5E) for connection to the instrument
	At least 1 serial port for connection to the VFV kit balance
	Additional USB and/or RS232 ports as necessary for integrated devices (RS232 to USB adaptor may be used)
Software	Microsoft™ .NET Framework 3.5
Software	Applied Biosystems™ HID NIMBUS® System Software

* Minimum specification.

Performance

Across the required operating temperature and humidity, the device will meet or exceed the following pipetting performance requirements				
Pipetting capabilities	Disposable tip size	Pipetting volume	Accuracy [R] (%)	Precision CV (%)
		10 µL	0.5 µL	10.0
	10 µL	1 µL	5.0	4.0
	10 µL	5 µL	2.5	1.5
	10 µL	10 µL	1.5	1.0
	50 µL	0.5 µL	10.0	6.0
	50 µL	1 µL	5.0	4.0
	50 µL	5 µL	2.5	1.5
	50 µL	50 µL	2.0	0.75
	300 µL	10 µL	5.0	2.0
	300 µL	50 µL	2.0	0.75
	300 µL	200 µL	1.0	0.75
	1,000 µL	10 µL	7.5	3.5
	1,000 µL	100 µL	2.0	0.75
	1,000 µL	1,000 µL	1.0	0.75
Positional accuracy	Device shall have a positional accuracy of +/- 0.5 mm Positional data as measured from the pipette channel stop disk			

Ordering information

Description	Includes	Cat. No.
HID NIMBUS Presto System	<p>Instruments: Microlab NIMBUS HD Liquid Handler with 4 channels, KingFisher Presto system, laptop</p> <p>Accessories: Plate gripper tool, core grippers, barcode reader, 16-position small tube carrier, 4-position NTR pedestal and PCR adaptor carrier, 200 mL reagent trough, 2 FTR pedestal, reagent trough pedestal and NTR carrier, and 2 FTR pedestal and 2 plate stack pedestal carrier</p> <p>Methods: Validated with PrepFiler and PrepFiler BTA kits</p> <p>Software: HID NIMBUS System Software</p>	A55395
HID NIMBUS Presto System Installation		A55397
Extraction Implementation		HPS10300
Extraction Robot Premium Validation		HPS20301
Extraction Robot Standard Validation		HPS20302
Extraction Robot Performance Check		HPS20303
Extraction Robot Verification		HPS20304
Hamilton Tips, non-sterile, 300 µL		A47618
Hamilton Tips, non-sterile, 1,000 µL		A47619
Hamilton Reagent Reservoir, 60 mL		56694-01
Hamilton Reagent Reservoir, 200 mL		56695-01
KingFisher 96 deep-well plate		95040450
KingFisher 96 tip comb for deep-well magnets		97002534
PrepFiler Automated Forensic DNA Extraction Kit		4463353
PrepFiler BTA Automated Forensic DNA Extraction Kit		4463354



Learn more at thermofisher.com/hidnp

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