



KingFisher Presto Sample Purification System

Automating the extraction of DNA, RNA and proteins

Optimized for Automation

The Thermo Scientific™ KingFisher™ Presto sample purification instrument is optimized to be part of an automated system using a liquid handler with a gripper or robot arm to load plates, or to integrate with other instruments, such as plate sealers or PCR instrumentation. The instrument utilizes proven KingFisher magnetic particle-based technology to provide high-quality yields of target nucleic acids and proteins for biopharma, biotech and research projects in high throughput laboratories. Its small footprint is ideal for automation and helps you save space in the lab, while still offering high purification capacity and proven performance. The KingFisher Presto system is a reliable and robust tool for nucleic acid or protein purification.

Fit for an automated system

The KingFisher Presto is designed exclusively for an automated system. Due to its small size, the KingFisher Presto can be placed either on the deck of an automated liquid handling instrument or on the side. The design also allows users to configure several KingFisher Presto units side by side, next to a liquid handler, minimizing the space required. The instrument can be hooked into the automated system using USB, RS232 or LAN connection, and will run the desired purification protocols from its internal software.

Increased efficiency

The KingFisher Presto has a turntable with two plate positions—one processing position under a magnetic head and another position where new plates are loaded in intervals. Two interchangeable magnetic heads are available—one for 24 deep-well plates, and one for 96 deep-well (DW) and standard KF 96 plates.

Key features

- Easy connection to several liquid handling instruments
- Minimized size of turntable for easy fitting into the automation systems
- Purify 96 or 24 samples at a time, depending on sample volume
- Volume range of 50–5000 μ l (depending on the magnetic head) for up/down scaling of the application
- Two magnetic head options offering flexibility in sample and reagent volumes

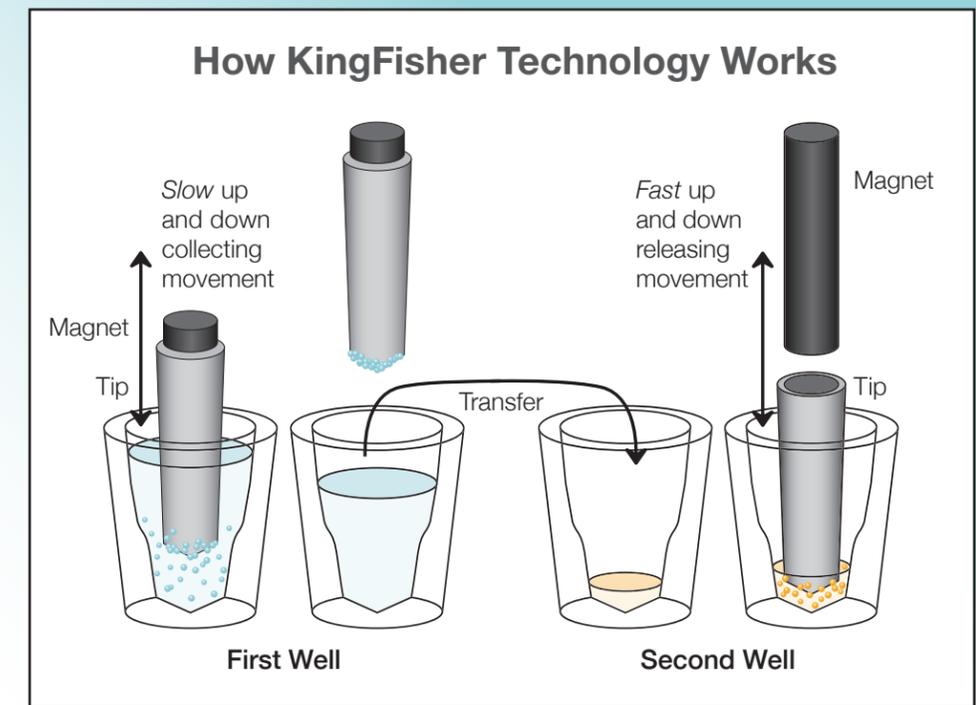


KingFisher technology

Rather than moving the liquids, the magnetic particles are moved from plate to plate containing specific reagents. Magnetic particles are transferred with the aid of magnetic rods covered with a disposable, specially designed plastic tip comb.

Enhanced with specially designed consumables

The KingFisher Presto may be used with 24- or 96-head magnets, depending on the volume and throughput requirements. It works best with specially designed polypropylene KingFisher plates and tip combs, which are suitable for many biological applications due their low binding characteristics. The plates are stackable and are designed so that a robotic arm can easily pick up and move one plate and tip comb set at a time. Sterile versions are available for those applications requiring absolute purity. When used together, these proprietary magnetic heads and consumables help to optimize the performance of KingFisher systems.

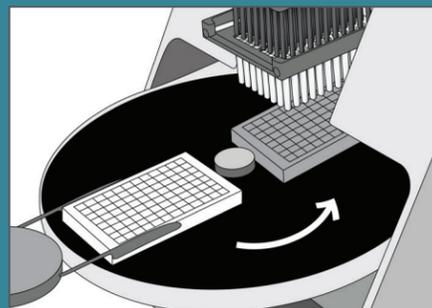


Thermo Scientific™ BindIt™ software for protocol development

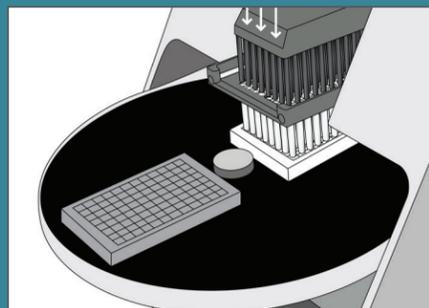
All KingFisher systems come with the flexible, dedicated BindIt software, which allows users to create and modify their protocols. Protocols for Invitrogen™ and Applied Biosystems™ nucleic acid and protein purification kits can be easily downloaded from thermofisher.com. The flexibility of BindIt software allows users to optimize their protocols before transferring them into the instrument's memory to run in an automated environment.

On-board user interface for convenient maintenance

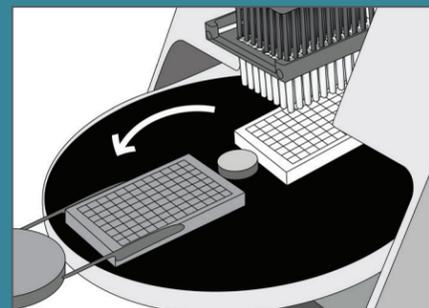
The small interface screen built into the instrument allows users to perform maintenance actions, like changing the magnetic head or releasing the tip comb, making it fast and easy to set up a run.



1 Plate is loaded into loading position.



2 Next it is moved to processing position under magnetic head.



3 New plate is automatically moved into loading position for further processing, which ensures seamless purification without any delay between steps and use any number of plates.



Applications

- Nucleic acid purification
- Protein purification:
 - Immunoprecipitation
 - Antibody purification
 - Phosphopeptide enrichment
 - Phage display

Ordering Information

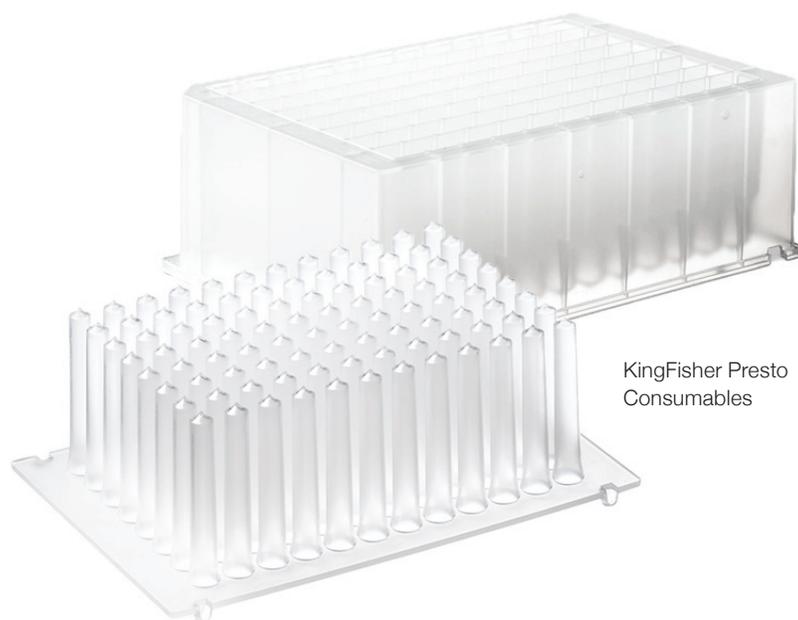
Cat. No.	Product	Cat. No.	Product
5400830	KingFisher Presto with 96 DW head	24078840	KingFisher Presto 24 DW head
5400840	KingFisher Presto with 24 DW head	24075420	96 KF heating block for KF Flex/KF Presto
24078831	KingFisher Presto 96 DW head with 2 heating blocks	24075430	96 DW heating block for KF Flex/KF Presto
24078841	KingFisher Presto 24 DW head with heating block	24075440	24 DW heating block for KF Flex/KF Presto
24078830	KingFisher Presto 96 DW head		

KingFisher Consumables		Quantity
95040450	KingFisher deep-well 96 plate	50/box
95040460	KingFisher deep-well 96 plate, sterile	50/box
97002540	KingFisher 96 KF plate (200 μ l)	48/box
97002534	KingFisher 96 tip comb for DW magnets	100/box
97002820	KingFisher deep-well 96 tip comb and plate, sterile	50 pcs of each
95040470	KingFisher Flex 24 deep-well plate	50/box
95040480	KingFisher Flex 24 deep-well plate, sterile	50/box
97002610	KingFisher Flex 24 deep-well tip comb and plate	50 pcs of each
97002620	KingFisher deep-well 24 tip comb and plate, sterile	50 pcs of each

Specifications

KingFisher Presto	
Max sample number/run	96
Connections	USB, RS232, LAN
Volume range	50–5000 μ l
Plate formats	96, 96 DW, 24 DW
Heating	Yes, from +5°C above ambient temperature to +115°C
No. of user-selectable magnetic heads	2
Works with BindIt Software	Yes
Stand-alone use	No*
Automation compatible	Yes, optimized
Dimensions (WxDxH)	36.0 x 46.5 x 40.0 cm (14.2 x 18.3 x 15.5 in)
Weight	24 kg (53 lbs)

* Protocol test run capability through BindIt



Find out more at thermofisher.com/kingfisher