

thermo scientific

ДИА•М
современная лаборатория

www.dia-m.ru
заказ on-line



KingFisher Apex instrument

APEX

ThermoFisher
SCIENTIFIC

The pinnacle of automated purification for DNA, RNA, proteins, and cells

Building on decades of Thermo Scientific™ KingFisher™ product value and excellence, we've combined unparalleled instrument capabilities with complete touchscreen-based control to deliver unrivaled flexibility and performance, so sample prep can be simple.

Welcome to the apex of purification.

AP



Write or edit protocols directly on instrument

Intuitive touchscreen interface



UV decontamination

thermo scientific



KingFisher Apex

Bar code scanning for plate setup


96-well, 24-well, and PCR formats

Optional network connectivity

Storage tube elution

Switch between two magnet heads

Heating and cooling blocks

 Cloud-enabled



Enhanced performance

Achieve peak performance for purifying DNA, RNA, proteins, or cells, now with even greater flexibility for fast and reproducible results with almost any application.

- Elute in lower volumes (10 μ L) for demanding downstream applications
- Purify 24 or 96 samples in 25–65 min
- Control heating and cooling to maintain sample integrity
- Elute in storage tubes and revisit samples later
- Safeguard against contamination with 2 UV lights

Sample prep as it should be—fast, flexible, and consistent.*

gDNA from blood



75%
less touch time

cfDNA



50%
less touch time

RNA

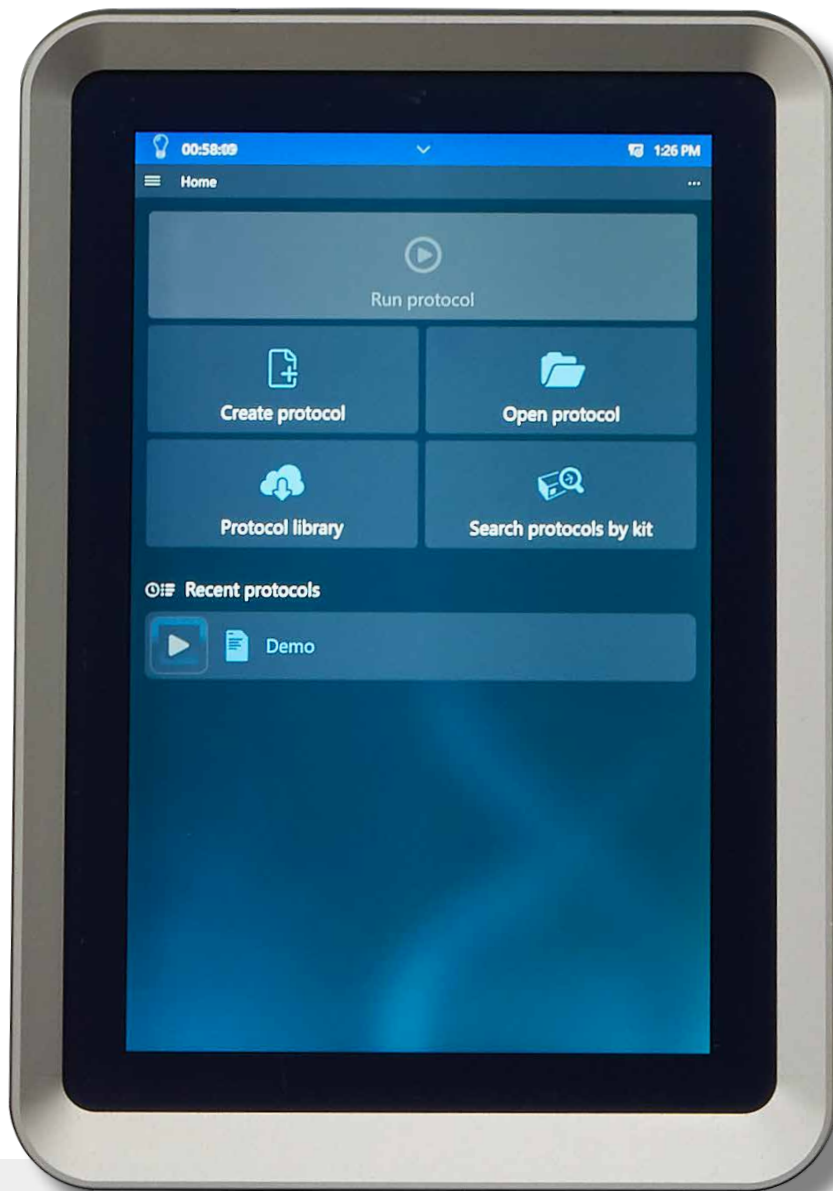


75%
less touch time

* Based on actual extraction times in lab

■ Average time required using our automated solutions

■ Average time for manual sample prep



Touchscreen control

A modern touchscreen display and intuitive interface put you in control of the instrument, making it easy to operate and reducing errors.

- Easily write, edit, or run protocols directly on instrument
- Quickly access recent protocols, validated protocol libraries, and other instrument settings
- Rely on guided visuals for easy plate loading, protocol changes, and instrument setup
- No computer needed



Create
protocol



Open
protocol



Download
protocol library



Search
protocol by kit

Customize protocols

Easily edit or write protocols directly on the instrument. The Thermo Scientific™ KingFisher™ Apex instrument allows customization of every step in your protocol—bind, wash, and elute.

- Quickly optimize any step in your protocol directly from the touchscreen
- Visual guides make it simple to edit or customize protocols
- Instrument-defined limits reduce errors in any protocol modifications
- Option to work from your PC with Thermo Scientific™ BindIx™ Software

Cloud and network connection

Connect the KingFisher Apex instrument to the cloud for even greater access and control, or use a network connection.

- Conveniently save, transfer, or download protocols from (virtually) anywhere, using a cloud library, local area network (LAN) file locations, USB, or even by scanning the barcodes from kits
- Generate run reports in PDF or XML format for ease-of-run tracking and LIMS incorporation

Dual magnets and multiple formats

Install two magnetic heads and heating blocks. The KingFisher Apex instrument intelligently selects the correct magnetic head based on your protocol needs. Work with small to large volume ranges by choosing from 24-well, 96-well, or PCR formats with corresponding magnetic heads and plates.

24 deep-well plates

30–5,000 μ L



96 deep-well plates

15–1,000 μ L



Barcoded and optimized plastics

Achieve optimal performance, reduce errors, and increase traceability with plastics specially designed for KingFisher instruments.

- Specialized tip combs and well design enable lower elution volumes, storage tube elution, and heating and cooling consistency
- Lot-specific barcodes confirm proper plate position during loading or may be used for lot tracking and documentation

Multiple applications

The KingFisher Apex instrument supports a variety of applications with a wide range of validated protocols from trusted reagents.

- Applied Biosystems™ MagMAX™ kits and reagents
- Invitrogen™ Dynabeads™ magnetic beads
- Thermo Scientific™ Pierce™ magnetic agarose beads
- Thermo Scientific™ SMART Digest™ kits



 **DNA**

- gDNA
- Cell-free DNA (cfDNA)
- Viruses and pathogens
- Microbiome
- Formalin-fixed, paraffin-embedded (FFPE) samples
- PCR cleanup

 **RNA**

- Total RNA
- MicroRNA (miRNA)
- Messenger RNA (mRNA)
- FFPE samples
- Microbiome
- Viruses and pathogens

 **Protein**

- Immunoprecipitation
- Protein purification
- Antibody purification
- Phage display
- Mass spectrometry

 **Cells**

- Exosomes
- T cells
- Primary cells
- Cell lines

Technical specifications

Processing volume by plate format	<p>96-well format:</p> <ul style="list-style-type: none"> • Deep well: 15–1,000 μL • KingFisher standard: 15–200 μL • PCR: 10–80 μL <p>24-well format:</p> <ul style="list-style-type: none"> • Deep well: 30–5,000 μL <p>Storage tubes:</p> <ul style="list-style-type: none"> • 96 tubes: 30–200 μL • 24 tubes: 200–1,000 μL
Customizable protocols	Yes, created with instrument user interface or Bindlx Software, which requires Microsoft™ Windows™ 10 operating system (version 1809 or higher)
Heating and cooling ranges	Heating up to 100°C Cooling down to 4°C
Ultraviolet light	2 UV lamps, max 23 h 59 min
Dimensions (H x W x D)	45 x 78 x 59 cm (18 x 31 x 23 in.)
Weight	56 kg (123 lb)
Plate formats	96 deep-well plate, 96-well KingFisher standard plate, 96-well PCR plate (skirted and semi-skirted),* 24 deep-well plate, 96 storage tubes,* 24 storage tubes*
Instrument memory	~30 GB
Display interface	Graphical user interface with touchscreen
Power	100–240 VAC 50/60 Hz, 280 VA
Bar code reading	On instrument; 1D barcodes
Magnetic head options	4 options, customer interchangeable
Data connectivity**	USB device for PC, USB Wi-Fi or LAN adapter for network, RS-232 for automation, cloud-enabled
Cat. No.	5400910 KingFisher Apex instrument with 96 PCR head 5400920 KingFisher Apex instrument with 96 Combi head 5400930 KingFisher Apex instrument with 96 DW head 5400940 KingFisher Apex instrument with 24 Combi head

* Recommended versions: Thermo Scientific™ Armadillo™ PCR Plates (skirted: Cat. No. AB2396, semi-skirted: Cat. No. AB2496), and Thermo Scientific™ Nunc™ storage tubes (96 tubes: Cat. No. 374086).

KingFisher instrument line

Find a model that meets your needs.

KingFisher instrument:	Duo Prime	Flex	Apex	Presto
Instrument size	Compact benchtop	Benchtop	Benchtop	Benchtop— integrates with robotic liquid handler
Throughput level	Low to medium	High	High	Ultrahigh
Processing volume range	<ul style="list-style-type: none"> • 30–1,000 µL: 12-pin magnet head • 200–5,000 µL: 6-pin magnet head 	<ul style="list-style-type: none"> • 20–100 µL: 96-well PCR plate, skirted* • 20–200 µL: 96-well plate • 50–1,000 µL: 96 deep-well plate • 200–5,000 µL: 24 deep-well plate 	<ul style="list-style-type: none"> • 15–1,000 µL: 96 deep-well plate • 15–200 µL: 96- well KingFisher standard plate • 10–80 µL: 96-well PCR plate • 30–5,000 µL: 24 deep-well plate • 30–200 µL: 96 storage tubes • 200–1,000 µL: 24 storage tubes 	<ul style="list-style-type: none"> • 50–1,000 µL: 96 deep-well plate • 200–5,000 µL: 24 deep-well plate • 50–150 µL: 96-well KingFisher standard plate
Samples per run	6 or 12	24 or 96	24 or 96	24 or 96
Customizable protocols	Yes, with PC software	Yes, with PC software	Yes, with touchscreen or PC software	Yes, with PC software
Heating/cooling	<ul style="list-style-type: none"> • 10°C to 75°C (plate row block A) • 4°C to 75°C (elution strip block) 	<ul style="list-style-type: none"> • From 5°C above ambient temperature to 115°C 	<ul style="list-style-type: none"> • From 4°C above ambient temperature to 100°C • Cooling down to 4°C 	<ul style="list-style-type: none"> • From 5°C above ambient temperature to 115°C
Ultraviolet lamp	8 watts (up to 16 hr)	No	2 UV lamps, max 23 h 59 min	No

* Recommended versions: Armadillo PCR plates (skirted: Cat. No. AB2396, semi-skirted: Cat. No. AB2496), and Nunc storage tubes (96 tubes: Cat. No. 374086).

KingFisher instrument services and support

Quick-start training

KingFisher systems include SmartStart Orientation to get you up and running quickly in your lab. The orientation includes basic familiarization and setup with online instrument management and on-site training.

Warranty and AB Assurance service plans

Every KingFisher system comes with a one-year warranty. Extended coverage service plans are also available at the time of instrument purchase. We can also customize a service solution based on your lab's needs.

Find out more at thermofisher.com/kingfisher-services

Test a KingFisher Apex instrument in your lab

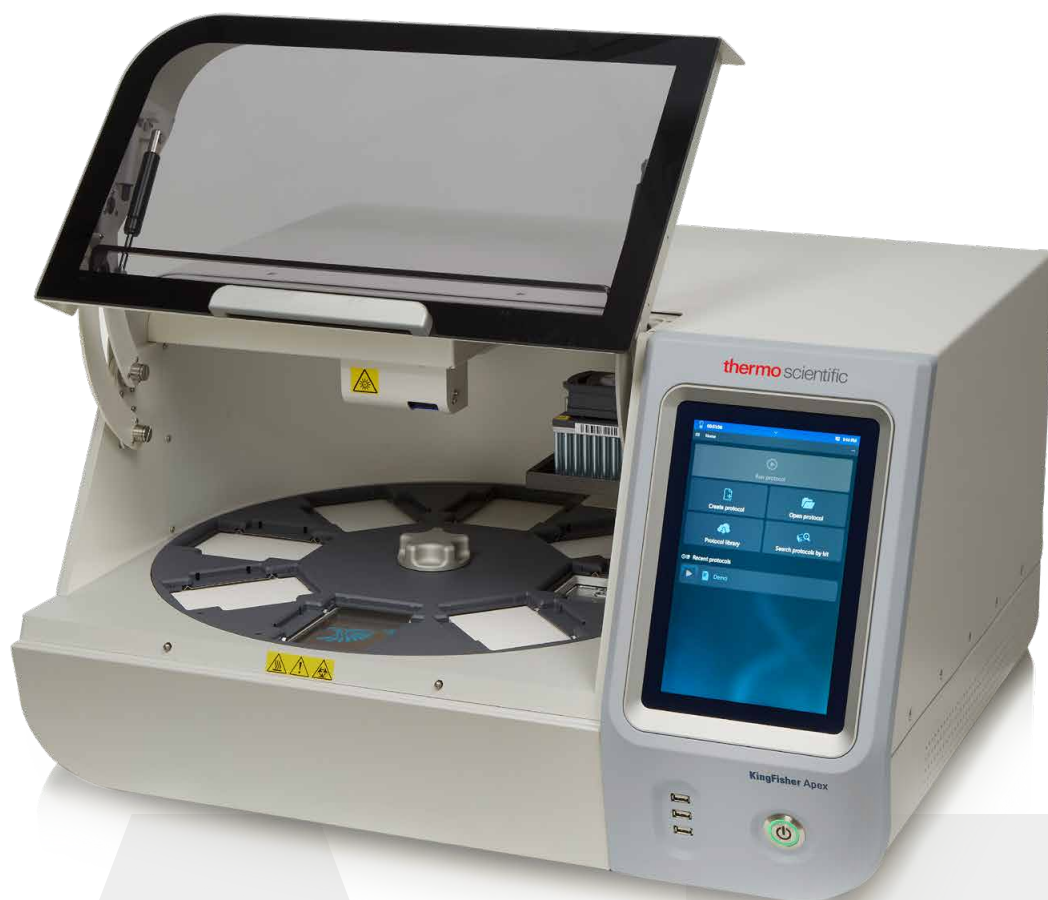
KingFisher instrument specialists offer an on-site demonstration of the system with your samples. They provide the instrument, consumables, and reagents from Thermo Fisher Scientific that are specific to your needs.

The demonstration includes instrument setup and use, protocol modification, and FAQs.

Find out more at thermofisher.com/kingfisherdemo

Ordering information

KingFisher Apex instruments	Cat. No.
KingFisher Apex instrument with 96 PCR head	5400910
KingFisher Apex instrument with 96 Combi head	5400920
KingFisher Apex instrument with 96 deep-well head	5400930
KingFisher Apex instrument with 24 Combi head	5400940
Plastics for 96 deep-well format	
KingFisher Apex 96 Combi tip comb	97002570 New
KingFisher 96 deep-well plate, barcoded	95040450B
KingFisher 96 deep-well plate, sterile, barcoded	95040460B
KingFisher 96 tip comb for deep-well magnets, barcoded	97002534B
KingFisher 96 deep-well tip comb and plate, sterile, barcoded	97002820B
Nunc Coded Cryobank Vial Systems (96 tubes)	374086
Plastics for 96 standard and PCR formats	
KingFisher Apex 96 PCR tip comb	97002560 New
KingFisher 96 microplate (200 µL), barcoded	97002540B
Armadillo PCR Plate, 96-well, clear, clear wells	AB2396
KingFisher 96 tip comb for KingFisher magnets, barcoded	97002524B
Armadillo PCR Plate, 96-well, clear, semi-skirted, low profile, clear wells	AB2496
Plastics for 24 deep-well format	
KingFisher Apex 24 Combi tip comb	97002580
KingFisher 24 deep-well plate, barcoded	95040470B
KingFisher 24 deep-well plate, sterile, barcoded	95040480B
KingFisher 24 deep-well tip comb and plate, barcoded	97002610B
KingFisher 24 deep-well tip comb and plate, sterile, barcoded	97002620B
Nunc 24 storage tubes	374323
KingFisher Apex accessories	
KingFisher Apex magnet heads	
KingFisher Apex 96 PCR head	24079910
KingFisher Apex 96 DW head	24079930
KingFisher Apex 96 Combi head	24079920
KingFisher Apex 24 Combi head	24079940
KingFisher Apex heating blocks	
KingFisher Apex PCR heating block	24075910
KingFisher Apex 96 KF heating block	24075920
KingFisher Apex 96 DW heating block	24075930
KingFisher Apex 24 DW heating block	24075940
KingFisher Apex 96 storage tube heating block	24075950
KingFisher Apex 24 storage tube heating block	24075960
Other	
KingFisher Apex 24 storage tube adapter	N21445
KingFisher Apex 96 PCR semi-skirted plate adapter	N21446
KingFisher Apex UV lamp	N21447



Notes

Lined area for writing notes.

ООО «Диаэм»

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