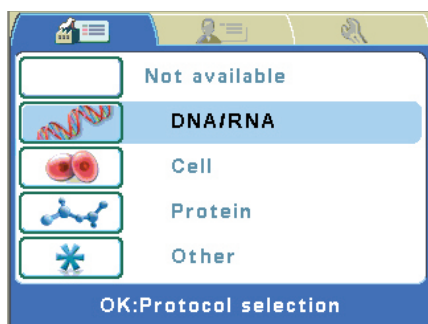
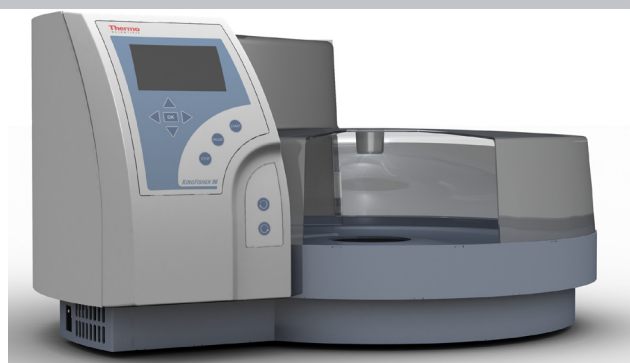


## Thermo Scientific KingFisher® Flex

Thermo Scientific KingFisher Flex uses patented magnetic separation technology for a rapid sample preparation process of nucleic acids, proteins and cells. The new KingFisher Flex offers an expanded sample volume range, which in turn increases the yield by five times. With minimum hands-on time, KingFisher Flex offers the highest purification capacity with excellent reproducibility and high quality.



KingFisher Flex user interface



### Unique technology

Thanks to the innovative idea of transferring magnetic particles instead of liquids, KingFisher Flex offers a rapid and reproducible purification of high-quality DNA, RNA, proteins and cells from various and often difficult starting materials like blood, cell cultures, tissue lysates, soil and faeces. The technology is based on magnetic rods which move particles through the various purification phases – binding, mixing, washing and elution. Automation and elimination of liquid handling result in a reliable and robust purification process.

### Increased flexibility

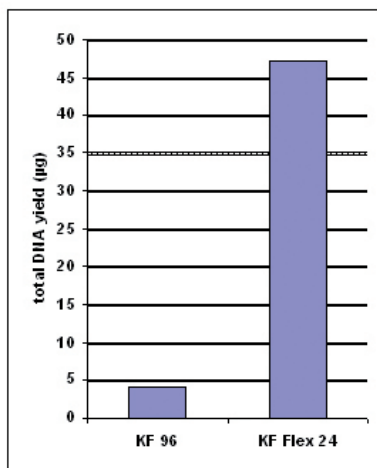
KingFisher Flex is a truly flexible solution for different types of sample processing needs. With the 24-rod magnet head and 24-well deep well plate, customers can raise the processing volume up to 5 ml resulting in increased yield of the purified product. For higher throughput needs, 96 samples can be processed in different working volumes (20-1000 µl) using 96-rod magnet head and appropriate 96-well plates.

### New BindIt Software

With the new BindIt™ Software, customers can easily design new or modify existing purification protocols for their own applications. Furthermore, BindIt Software enables setting of user access control levels, clear reporting and advanced protocol management. Ready made and validated purification protocols for different types of applications are available, offering customers the possibility to choose the best possible method for a sample process. BindIt Software is compatible with KingFisher Flex but also with other KingFisher family instruments. Purification protocols can be run either via PC or using KingFisher as a stand-alone instrument.

### Highest throughput on the market

KingFisher Flex achieves the highest throughput on the market – up to 96 samples can be processed even under 15 minutes. BindIt Software enables KingFisher Flex to interface with liquid handling, robotics and plate stacking instruments, providing a fully automated solution and the highest throughput for all research, biotech, pharmaceutical and quality control laboratories.



	mean (ng/µl)	total yield	mean ratio (µg)	n
KF 96 200 µl blood	26,4	4,0	1,8	16
KF Flex 24 1 ml blood	62,8	47,1	1,8	12

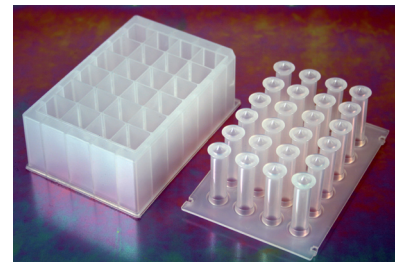
Figure 1. Genomic DNA yields from blood with InviMag® Blood DNA Mini Kit/KF96. Comparison between KingFisher 96 and KingFisher Flex 24 magnet head.

### Ultimate performance

KingFisher Flex offers expanded processing volumes and accordingly higher yields for customers requiring larger volumes of starting material like whole blood for genomic DNA isolation. Also, larger sample volumes are beneficial if the sample contains only small amounts of target analyte like bacterial cells in drinking water.

### The KingFisher Flex range of applications include:

- Clinical and biomedical research
- Pharmacogenomics
- Applied testing
- Forensics
- Biomarker discovery
- Veterinary diagnostics
- Quality control of food, beverages and water
- Plant and seed quality testing
- Protein research



KingFisher Flex consumables

### Thermo Scientific KingFisher Flex Technical Information

Technical specification	96 format	24 format
Processing volume	20-1000 µl	200-5000 µl
Capacity	Up to 96 samples per run	Up to 24 samples per run
Magnet heads	96 interchangeable formats for PCR plate, KingFisher 96 KF plate and 96-well deep well plate	24 format for 24-well deep well plate
Plates	KingFisher 96 KF well plate (20-200 µl), 96-well PCR plate (20-100 µl), 96-well deep well plate (50-1000 µl),	24-well deep well plate (200-5000 µl).
Tip combs	96 format for KingFisher 96 KF plate, for PCR plate and for 96-well deep well plate	24 format for 24-well deep well plate

### General information

Particle size	> 1 µm
Particle collection efficiency	> 95% (KingFisher 96 KF plate)
Incubation	Heating block temperature from room temperature to +115°C
Display/keyboard	Graphical user interface, START/STOP/PAUSE/OK, four arrow keys, two keys to rotate turntable
Internal software	Space for more than 100 internal protocols
Interface	Serial RS-232, USB
Robot compatibility	Yes
Dimensions	68 x 60 x 38 cm

### Thermo Scientific KingFisher Flex ordering information

Cat. No	Description
5400600	KingFisher Flex, magnetic particle processor, 100-240 V (price includes one KingFisher Flex head)
<b>Accessories</b>	
97002514	KingFisher 96 tip comb for PCR magnets, 8 x 10 pcs/box
97002524	KingFisher 96 tip comb for KF 96 magnets, 10 x 10 pcs/box
97002534	KingFisher 96 tip comb for DW magnets, 10 x 10 pcs/box
97002610	KingFisher Flex 24 deep well tip comb and 24 deep well plate, 50 pcs each
97002540	KingFisher 96 KF plate (200 µl.), 48 plates/box
95040450	Microtiter deep well 96 plate, 50 pcs/box
95040470	KingFisher Flex 24 deep well plate 50 pcs/box

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Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203

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5850 3588, Other Asian countries +852 2885 4613

Countries not listed: +49 6184 90 6940 or +33 2 28 03 20 00

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