

Thermo Scientific KingFisher Flex

KingFisher® Flex Installation Checklist

Step	Procedure	Reference
1	Remove both the transport locks indicated by tags: 1) the tip comb holder transport lock, and 2) the heating block transport lock.	- See other side - p. 24, Fig. 3-9 – 3-11 - p. 25, Fig. 3-12 – 3-13
2	Attach the shield plate. Use the two screws supplied.	- p. 29, Fig. 3-17 – 3-20
3	Switch the KingFisher Flex ON.	- p. 26
4	Select the protocol (Change_heatblock). Press start . Insert the heating block by pressing it evenly into place. Press start to confirm the installation.	- p. 27, Fig. 3-15 – 3-16
5	To insert Thermo Scientific KingFisher Flex heads, select the Change_magnet protocol. Press start . Insert the KingFisher Flex head so that the three pins slot into place. Press start to confirm the installation.	- p. 31, Fig. 3-22 – 3-23
6	Run the check protocol (Check_96dw_tip, Check_24dw_tip, Check_KF96_tip or Check_pcr_tip) according to the KingFisher Flex head and plastics you are using. If the check run is all right, proceed with your own runs.	- p. 35

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Step	Procedure	Reference
1	Switch the KingFisher Flex ON.	- p. 40
2	Pipette the samples, reagents and wash buffers into the plates.	- p. 13
3	Combine the tip comb and Thermo Scientific KingFisher plate.	- p. 53, Fig. 4-37 – 4-38
4	Select the desired protocol from the keypad or use Thermo Scientific BindIt Software to run the protocol. Use the USB or RS-232C cable to connect the instrument and PC.	- p. 45
5	Press start . Alternatively, if the PC connection is used, follow the instructions on the instrument display carefully.	- p. 45, 54
6	Open the sliding door if the see-through lid is in place.	- p. 34, Fig. 3-25
7	Load the plates onto the loading station according to the protocol. Press start after each plate to confirm the loading.	- p. 55, Fig. 4-38 – 4-40
8	After the process remove all the plates according to the protocol. Confirm removal by pressing start after each plate. Note that the plate containing your samples is removed first.	- p. 58
9	Finally END_OF_RUN is displayed. At the end of the run press stop .	- p. 58
10	Switch OFF the KingFisher Flex.	- p. 60

Processing volumes vs. plate types and magnetic heads for KingFisher Flex:

Head / Plate	KingFisher 24 Deep Well plate	Microtiter® 96 Deep Well plate	KingFisher 96 plate	PCR plate, skirted
KingFisher Flex head for KF 24 Deep Well plate	200–5000 µl	–	–	–
KingFisher Flex head for Microtiter 96 Deep Well plate	–	50–1000 µl	50–150 µl	–
KingFisher Flex head for KF 96 plate	–	–	20–200 µl	–
KingFisher Flex head for PCR plate	–	–	20–200 µl	20–100 µl

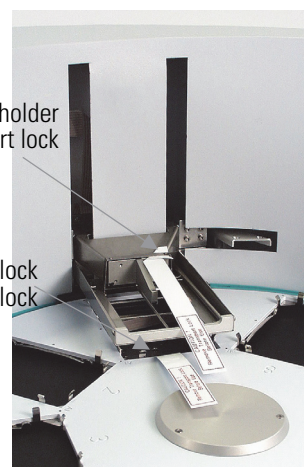
Demo protocols:

Demo_Flex96 is a short and simple protocol for demonstrating KingFisher Flex operation. The protocol is stored in the instrument's internal memory. The protocol consists of three steps (binding, washing and eluting).

To perform **Demo_Flex96**, the following items (incl. in the KingFisher Flex plastics Demo Package in the transport box) are needed:

- Four (4) KingFisher Flex 96 plates for tip comb, binding, washing and elution solution (Cat. no. 97002540)
- One (1) Thermo Scientific KingFisher Flex 96 tip comb for DW magnets (Cat. no. 97002534)
- KingFisher Flex head for 96 Deep Well plate (Cat. no. 24074430)

1. Tip comb holder transport lock
2. Heating block transport lock



Note: A corresponding demo protocol for KingFisher Flex 24 deep well head (Cat. no. 2407440) is also stored in the instrument's memory (**Demo_Flex24**). For more information, see the protocol details on the KingFisher Flex display.

Demo protocol description:

Step name	Plate type	Reagent volume	Step parameters	
Bind	KingFisher 96	150 µl water + magnetic beads	Bind time - Speed	30 sec. Medium
Wash	KingFisher 96	150 µl water	Wash time - Speed	30 sec. Medium + Fast
Elute	KingFisher 96	100 µl water	Elution time - Speed	30 sec. Slow
Release Beads			Disposal plate for beads	Bind
			Release time - Speed	5 sec. Fast

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All cross-references refer to the *Thermo Scientific KingFisher Flex User Manual*, Rev 1.2 (Cat. no. N07669).

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