

**Finnpipette® Novus**  
Single and Multichannels



**NEW!**  
1200 µl Multichannel

The power to reach even higher

Analyze • Detect • Measure • Control™

**Thermo**  
ELECTRON CORPORATION

## The new Finnpiquette® Novus

**As the leader in pipetting, Thermo Electron is proud to introduce the new Finnpiquette Novus, a pipette that combines simplicity, comfort and functionality in an exceptionally intuitive ergonomic design. Built on the results of recent independent ergonomics studies\*, and customer feedback, the new Finnpiquette Novus gives you the power to reach the highest level of pipetting performance.**

### Simple

The new Finnpiquette Novus is so user-friendly that you'll learn how to use it in only a few minutes. With the instantly familiar menu and simple button layout, you can choose all the pipetting functions you need quickly and easily. The large, clear display is easy to read and shows the full names of all functions, without any confusing abbreviations. With the new Finnpiquette Novus, Thermo clearly raises the standards of user-friendly design.

### Comfortable

The ergonomic and lightweight design of Finnpiquette Novus takes account of each part of your hand and your pipetting motion, to keep stress and exertion to a minimum. When you pick up the new Finnpiquette Novus, you will feel the solid shaped handle fit comfortably and securely in your hand. Together with the adjustable finger rest, this firmly supports the pipette while also ensuring the optimum pipetting position for your hand, wrist and forearm.

### Adjustable

The adjustable finger rest takes the load off your hands and ensures the most efficient pipetting position. You can adjust the finger rest, 120° of movement, to fit your hand exactly. This lets your hand rest while pipetting and relax between pipetting cycles. The unique design leaves your index finger free to con-

trol pipetting with minimum effort using the trigger action pipetting button.

Additionally, the light-touch tip ejector minimizes strain on your thumb with the very low tip ejection force. Both right and left-handed users will also be pleased that the soft-touch tip ejector can be operated by either hand.

### Light

Finnpiquette Novus is the lightest electronic pipette on the market. Its advanced lightweight construction helps to prevent upper body stress and strain, letting you work longer without fatigue.

### Powerful

Finnpiquette Novus is a flexible and powerful pipette with two levels of functionality: basic and advanced. There are 10 different pipetting functions and 9 pipetting speeds to choose from. The intuitive menu gives you instant access to basic pipetting functions such as forward, reverse, diluting and stepper pipetting. Advanced functions, such as mixing and sequential stepping, can be easily selected from the second level of the menu.

### Graphical user interface

Finnpiquette Novus has a two level menu for simple control, and this is extremely easy to use thanks to its fully graphical text display. The instantly familiar text guided graphical user interface and simple button layout let you choose all the pipetting functions you need quickly and easily. Novus has built-in 9 memory slots for convenient every day operations. To each slot you are able to store one of the ten pipetting programs with your own individual settings.

### Always ready

To ensure that it is always powered and ready to use, Finnpiquette Novus has a new lightweight, long life battery. Depending on the settings, the battery allows approximately 4000 pipetting operations and can be fully recharged in only 1 hour.



*The finger rest is adjustable 120°*



The pipette can also be used while recharging thanks to the long and unobtrusive cable.

### Reliable performance

Finnpipette Novus is designed for easy in-lab calibration so that you can guarantee accurate and precise pipetting performance at all times. It is robust and easy to service, and has a fully autoclavable tip cone to ensure sterility and avoid cross-contamination. For easy monitoring of the service intervals FinnpiPETTE Novus has a built-in counter which counts the number of pipetting after the last calibration.

### Personalized

You can personalize your FinnpiPETTE Novus and give it its own name, which will then be displayed on the screen when the pipette is not in use.

Finnpipette Novus pipettes are available in a range of volumes, each of which is conveniently color coded according to our extensive Finntip® product range.

### Ergonomic expertise

Thermo invented the first variable volume pipette and the first trigger-action pipette, and we recently completed in-depth studies on the ergonomics of manual and electronic pipettes. Using our expertise in ergonomic pipette design, the results of our ergonomics studies\*, as well as customer feedback, we designed the new FinnpiPETTE Novus to be the latest development in user-friendly pipetting.

#### \*References

1. M. Lintula and N. Nevala-Puranen, Kuopio Regional Institute of Occupational Health, Ergonomics Unit (2000)
2. M. Lintula and N. Nevala-Puranen, Kuopio Regional Institute of Occupational Health, Ergonomics Unit (2002)



### More with Multichannel

The recent introduction of the multichannel models to the FinnpiPETTE Novus product family now brings the same simplicity and convenience of electronic pipetting to microplate applications.

FinnpiPETTE Novus Multichannel with its 10 advanced pipetting functions is ideal for demanding laboratory applications, such as delivering a series of different volumes in any desired order or mixing after delivery. Its lightweight, ergonomic design provides the greatest pipetting comfort for even routine laboratory tasks.

From the wide range of FinnpiPETTE Novus multichannel pipette models, you will find a perfect choice for each of your multichannel liquid handling applications.

### Efficient multisteping

New

New FinnpiPETTE Novus 1200 8-channel electronic pipette is ideal for high volume stepping with a step volume of 50µl up to 1200µl. You can dispense efficiently and quickly e.g. 100µl up to 12 columns filling the whole plate. Novus is also a practical tool for filling high volume deep well plates. Stepping results are ensured by Finntip Flex 1200 pipette tip, it has wider tip orifice optimized for delivering repetitive liquid portions.

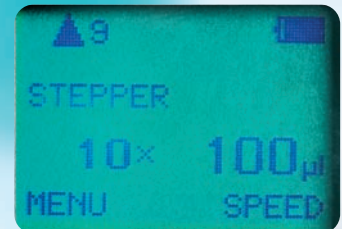


## Familiar text guided graphical user interface



The intuitive menu makes all the most commonly used functions, such as PIPETTE, easily available.

Selecting PROGRAM accesses 9 different user memory slots, which are available for storing your own combinations of the 10 different pipetting functions.



The STEPPER function enables you to repeatedly dispense the volume you choose over a selected number of repetitions. This function is mainly used in routine applications where efficient and high speed pipetting is needed.



Forward pipetting is the most regularly used function and you can select the pipetting volume easily by pressing the scroll key.

### Finnpipette Novus pipetting programs:

- Forward pipette
- Reverse pipette
- Repetitive pipette
- Forward pipette + Count
- Forward pipette + Mix
- Stepper pipette
- Sequential Stepper pipette
- Dilution
- Dilution + Mix
- Manual
- Sequential Aspirate pipette



Finnpipette Novus makes routine tasks like mixing and diluting much easier, as well as allowing combinations of these functions. For example, the MIX+DILUTE function aspirates two different reagents, which are separated by an air gap. These solutions can then be mixed to a 70% of the total volume.

## Finntip®

**Finntip pipette tips complement the new FinnpiPETTE Novus to make a complete optimized pipetting system. Finntips are fully compatible with all FinnpiPETTES, providing optimal liquid handling results. All Finntips are available in easy-to-open, fully autoclavable hinged tip racks with color-coded matrix trays.**

### Finntip Pipette Tips Tip-top quality

High-quality Finntip pipette tips from Thermo Electron have always been an essential part of our world leading family of FinnpiPETTES. Thermo's advanced molding techniques ensure that all Finntips provide the very best dispensing accuracy.

### Finntip 0.2 µl-10ml Ensure the success of your application with Finntips

Thermo offers an extensive range of Finntips for you to choose from, so that you can get reliable pipetting results, whatever your application. All the Finntips are available as sterilized versions and they are fully autoclavable.

### Finntip Flex 300 µl and new 1200 µl Flexible in every way

Thermo's new Finntip Flex system is the latest breakthrough in pipette tip technology that offers flexible, soft and sophisticated high-end tips for discerning users. The new rack is very easy to use and it does not slide on the lab bench.

### Finntip Flex 300 Refill Kits Speed up your assays

The new innovative Finntip Flex 300 refill system is very easy to use. Just place the refill tower on top of empty Flex rack and with a single click the new tip matrix plate is placed. Finntip Flex 300 Refills can be used with Finntip Flex racks.

### Finntip 250 Universal and Finntip 10 Refill Kits Easy to use

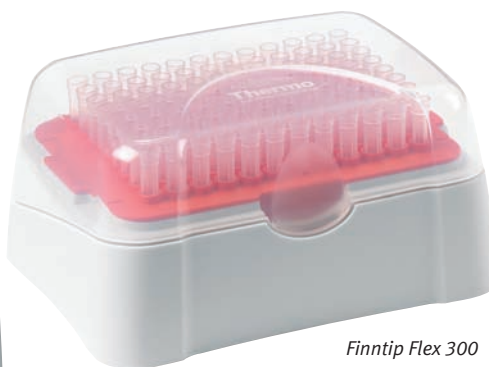
The kits contain two refill towers of 10 matrix plates each. Finntip 250 Universal can be used for a volume range of 0.5 – 250 µl whilst Finntip 10 can be used for 0.2 -10 µl. Finntip 250 and Finntip 10 Refills can be used with standard Finntip racks.

### Finntip Filter 0.2 µl-10ml Prevent cross-contamination

Finntip Filters are ideal for PCR and other amplification methods, or for any work where aerosol contamination might occur. Finntip Filters effectively eliminate carry-over contamination, ensuring the success of the application. Finntip Filters 0.2 - 1000 µl are certified to be free of DNA, DNase and RNase.



Finntip Flex 1200



Finntip Flex 300

## Finntip - Standard Pipette Tips

### Finntip 10



Cat. no.	Description	Quantity
9400 310	Finntip 10	1000/bag
9400 300	Finntip 10	10x96/rack
9400 303	Finntip 10 sterile	10x96/rack
9400 326	Finntip 10 refill starter kit	4x192/rack + 10x192/refill
9400 327	Finntip 10 refill kit	20x192/refill
Color code:	Length: 3.2 cm	
	Pink	

### Finntip 20



Cat. no.	Description	Quantity
9400 620	Finntip 20	1000/bag
9400 610	Finntip 20	10x384/rack
9400 613	Finntip 20 sterile	10x384/rack
Color code:	Length: 3.3 cm	
	Purple	

### Finntip 50



Cat. no.	Description	Quantity
9400 360	Finntip 50	1000/bag
9400 370	Finntip 50	10x384/rack
9400 373	Finntip 50 sterile	10x384/rack
Color code:	Length: 4.8 cm	
	Turquoise	

### Finntip 200 Ext



Cat. no.	Description	Quantity
9400 100	Finntip 200 Ext	400/bag
9400 130	Finntip 200 Ext	10x96/rack
9400 133	Finntip 200 Ext sterile	10x96/rack
Color code:	Length: 7.8 cm	
	Orange	

### Finntip Flex 300



Cat. no.	Description	Quantity
94060510	Finntip Flex 300	10x96/rack
94060513	Finntip Flex 300 sterile	10x96/rack
94060516	Finntip Flex 300 refill starter kit	1x96/rack + 20x96/refill
94060517	Finntip Flex 300 refill kit	20x96/refill
94060520	Finntip Flex 300	1000/bag
Color code:	Length: 6.0 cm	
	Orange	

### Finntip 300



Cat. no.	Description	Quantity
9401 260	Finntip 300	1000/bag
9401 240	Finntip 300	20 000/bulk
9401 250	Finntip 300	10x96/rack
9401 253	Finntip 300 sterile	10x96/rack
9401 255	Finntip 300 refill pack	10x192/pack
Color code:	Length: 5.2 cm	
	Orange	

### Finntip 250 Universal



Cat. no.	Description	Quantity
9400 250	Finntip 250 Universal	500/box
9400 230	Finntip 250 Universal	1000/bag
9400 220	Finntip 250 Universal	20 000/bulk
9400 260	Finntip 250 Universal	10x96/rack
9400 263	Finntip 250 Universal sterile	10x96/rack
9400 266	Finntip 250 Universal refill starter kit	4x96/rack + 10x96/refill
9400 267	Finntip 250 Universal refill kit	20x96/refill
Color code:	Length: 5.2 cm	
	Yellow	

### Finntip 1000



Cat. no.	Description	Quantity
9401 030	Finntip 1000	1000/bag
9401 010	Finntip 1000	10 000/bulk
9401 070	Finntip 1000	200/box
9401 110	Finntip 1000	10x96/rack
9401 113	Finntip 1000 sterile	10x96/rack
9401 115	Finntip 1000 refill pack	5x192/pack
Color code:	Length: 7.1 cm	
	Blue	

### Finntip 1000 Ext



Cat. no.	Description	Quantity
9401 410	Finntip 1000 Ext	1000/bag
9401 420	Finntip 1000 Ext	5x96/rack
9401 423	Finntip 1000 Ext sterile	5x96/rack
Color code:	Length: 10.5 cm	
	Blue	

New

### Finntip Flex 1200



Cat. no.	Description	Quantity
94060810	Finntip Flex 1200	10x96/rack
94060513	Finntip Flex 1200 sterile	10x96/rack
Color code:	Length: 6.0 cm	
	Turquoise	

### Finntip 5 ml

Cat. no.	Description	Quantity
9402 050	Finntip 5 ml	75/box
9402 030	Finntip 5 ml	500/bag
9402 010	Finntip 5 ml	3000/bulk
9402 070	Finntip 5 ml	5x54/rack
9402 073	Finntip 5 ml sterile	5x54/rack
Color code:	Length: 14.7 cm	
	Green	

### Finntip 10 ml

Cat. no.	Description	Quantity
9402 150	Finntip 10 ml	40/box
9402 151	Finntip 10 ml	100/bag
9402 160	Finntip 10 ml	5x24/rack
9402 163	Finntip 10 ml sterile	5x24/rack
Color code:	Length: 15.0 cm	
	Red	

## Finntip - Special Pipette Tips

### Finntip BioCon \*

Cat. no.	Description	Volume	Quantity
94053 100	Finntip BioCon 10	0.2-10 µl	100/box
94053 200	Finntip BioCon 250	0.5-250 µl	100/box
94053 300	Finntip BioCon 1000	100-1000 µl	50/box

\* Finntip BioCons are certified to be free of Endotoxin, DNA, DNase and RNase

### Finntip Wide

Cat. no.	Description	Volume	Quantity
9405 020	Finntip 250 Wide	10-250 µl	1000/bag
9405 030	Finntip 250 Wide	10-250 µl	22000/bulk
9405 120	Finntip 250 Wide	10-250 µl	10x96/rack
9405 123	Finntip 250 Wide sterile	10-250 µl	10x96/rack
9405 050	Finntip 1000 Wide	100-1000 µl	400/bag
9405 060	Finntip 1000 Wide	100-1000 µl	6500/bulk
9405 160	Finntip 1000 Wide	100-1000 µl	10x96/rack
9405 163	Finntip 1000 Wide sterile	100-1000 µl	10x96/rack

Color Code: Length: 5.3 cm / 7.2 cm  
White

### Finntip Filter \*

Cat.no.	Description	Volume	Quantity
94052 000	Finntip Filter Micro 10 µl sterile	0.2-10 µl	10x96/rack
94052 020	Finntip Filter Micro 20 µl sterile	0.5-20 µl	10x384/rack
94052 060	Finntip Filter Micro 50 µl sterile	0.2-50 µl	10x384/rack
94052 100	Finntip Filter 10 µl sterile	0.5-10 µl	10x96/rack
94052 150	Finntip Filter 20 µl sterile	0.5-20 µl	10x96/rack
94052160	Finntip Filter 30 µl sterile	0.3-30 µl	10x96/rack
94052 200	Finntip Filter 100 µl sterile	0.5-100 µl	10x96/rack
94052 310	Finntip Filter 100 µl Ext sterile	5-100 µl	10x96/rack
94052 300	Finntip Filter 200 µl sterile	0.5-200 µl	10x96/rack
94052 320	Finntip Filter 200 µl Ext sterile	5-200 µl	10x96/rack
94052 350	Finntip Filter 300 µl sterile	5-300 µl	10x96/rack
94052 410	Finntip Filter 1000 µl sterile	100-1000 µl	10x96/rack
94052 430	Finntip Filter 1000 µl Ext sterile	100-1000 µl	5x96/rack
94052 550	Finntip Filter 5 ml sterile	1-5 ml	5 x 54/rack
94052 600	Finntip Filter 10 ml sterile	2-10 ml	5 x 24/rack

\* Finntip Filters are certified to be free of DNA, DNase and RNase



Finntip Flex 300 Refill Starter Kit

### Convenient packaging

A range of packaging options is available, including racks, bags, boxes and bulk. To reduce waste, convenient refill packs are available for Finntip racks.

**Finnpipette Novus specifications\*\***

Order no.	Range	Increment	Min. Step. Vol	Volume	Accuracy		Precision		Color code	Finntip
					$\mu$ l	%	s.d.* $\mu$ l	CV%*		
4620000X	1-10 $\mu$ l	0.01 $\mu$ l	0,5 $\mu$ l	10 $\mu$ l	$\pm 0.10$	$\pm 1.0$	0.05	0.5	pink	10
				1 $\mu$ l	$\pm 0.035$	$\pm 3.5$	0.03	3.0		
4620010X	1-10 $\mu$ l	0.01 $\mu$ l	0,5 $\mu$ l	10 $\mu$ l	$\pm 0.10$	$\pm 1.0$	0.05	0.5	yellow	250 Univ., 200 Ext.
				1 $\mu$ l	$\pm 0.070$	$\pm 7.0$	0.06	6.0		
4620020X	5-50 $\mu$ l	0.1 $\mu$ l	2,5 $\mu$ l	50 $\mu$ l	$\pm 0.40$	$\pm 0.8$	0.15	0.3	turquoise	50
				5 $\mu$ l	$\pm 0.15$	$\pm 3.0$	0.125	2.5		
4620030X	5-50 $\mu$ l	0.1 $\mu$ l	2,5 $\mu$ l	50 $\mu$ l	$\pm 0.40$	$\pm 0.8$	0.15	0.3	yellow	250 Univ., 200 Ext.
				5 $\mu$ l	$\pm 0.15$	$\pm 3.0$	0.125	2.5		
4620040X	10-100 $\mu$ l	0.1 $\mu$ l	5 $\mu$ l	100 $\mu$ l	$\pm 0.80$	$\pm 0.8$	0.20	0.2	yellow	250 Univ., 200 Ext.
				10 $\mu$ l	$\pm 0.30$	$\pm 3.0$	0.10	1.0		
4620050X	30-300 $\mu$ l	1 $\mu$ l	15 $\mu$ l	300 $\mu$ l	$\pm 1.8$	$\pm 0.6$	0.6	0.2	orange	300, Flex 300
				30 $\mu$ l	$\pm 0.90$	$\pm 3.0$	0.21	0.7		
4620060X	100-1000 $\mu$ l	1 $\mu$ l	50 $\mu$ l	1000 $\mu$ l	$\pm 6.0$	$\pm 0.6$	2.0	0.2	blue	1000, 1000 Ext.
				100 $\mu$ l	$\pm 3.0$	$\pm 3.0$	0.6	0.6		
4620070X	0.5-5 ml	0.01 ml	0,25 ml	5000 $\mu$ l	$\pm 30.0$	$\pm 0.6$	10.0	0.2	green	5 ml
				500 $\mu$ l	$\pm 15.0$	$\pm 3.0$	4.0	0.8		
4620080X	1-10 ml	0.01 ml	0,5 ml	10000 $\mu$ l	$\pm 60.0$	$\pm 0.6$	20.0	0.2	red	10 ml
				1000 $\mu$ l	$\pm 30.0$	$\pm 3.0$	8.0	0.8		

X=0=Eur.1=US 2=Jap.3=UK 4=Australia

\* s.d. = Standard Deviation, CV = Coefficient of Variation.

\*\* Factory calibration limits.

**Finnpipette Novus Stand**

Order no.	Description
9420360	Novus stand (for one pipette)

**Finnpipette Novus Multichannel specifications\*\***

Order no.	Channels	Range	Increment	Min. Step. Vol	Volume	Accuracy		Precision		Color code	Finntip
						$\mu$ l	%	s.d.* $\mu$ l	CV%*		
4630000X	8	1-10 $\mu$ l	0.1 $\mu$ l	0,5 $\mu$ l	10 $\mu$ l	$\pm 0.24$	$\pm 2.4$	0.16	1.6	pink	10, 20, 50
					1 $\mu$ l	$\pm 0.12$	$\pm 12.0$	0.08	8.0		
4630010X	12	1-10 $\mu$ l	0.1 $\mu$ l	0,5 $\mu$ l	10 $\mu$ l	$\pm 0.24$	$\pm 2.4$	0.16	1.6	pink	10, 20, 50
					1 $\mu$ l	$\pm 0.12$	$\pm 12.0$	0.08	8.0		
4630020X	8	5-50 $\mu$ l	0.1 $\mu$ l	2,5 $\mu$ l	50 $\mu$ l	$\pm 0.75$	$\pm 1.5$	0.35	0.7	yellow	250
					5 $\mu$ l	$\pm 0.25$	$\pm 5.0$	0.10	2.0		
4630030X	12	5-50 $\mu$ l	0.1 $\mu$ l	2,5 $\mu$ l	50 $\mu$ l	$\pm 0.75$	$\pm 1.5$	0.35	0.7	yellow	250
					5 $\mu$ l	$\pm 0.25$	$\pm 5.0$	0.10	2.0		
4630040X	8	30-300 $\mu$ l	1 $\mu$ l	15 $\mu$ l	300 $\mu$ l	$\pm 3.0$	$\pm 1.0$	0.9	0.3	orange	300, Flex 300
					30 $\mu$ l	$\pm 0.30$	$\pm 3.0$	0.10	1.0		
4630050X	12	30-300 $\mu$ l	1 $\mu$ l	15 $\mu$ l	300 $\mu$ l	$\pm 3.0$	$\pm 1.0$	0.9	0.3	orange	300, Flex 300
					30 $\mu$ l	$\pm 0.30$	$\pm 3.0$	0.10	1.0		
4630070X	16	5-50 $\mu$ l	0.5 $\mu$ l	2,5 $\mu$ l	50 $\mu$ l	$\pm 0.75$	$\pm 1.5$	0.35	0.7	turquoise	50
					5 $\mu$ l	$\pm 0.25$	$\pm 5.0$	0.10	2.0		
4630080X	8	100-1200 $\mu$ l	1 $\mu$ l	50 $\mu$ l	1200 $\mu$ l	$\pm 12.00$	$\pm 1.0$	2.40	0.2	turquoise	Flex 1200
					100 $\mu$ l	$\pm 3.00$	$\pm 3.0$	0.90	0.9		

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\* s.d. = Standard Deviation, CV = Coefficient of Variation.

\*\* Factory calibration limits.

**Finnpipette Novus Stand**

Order no.	Description
9420360	Novus stand (for one pipette)

**North America:** USA +1 866 984 3766, Canada +1 905 332 2000

**Europe:** Belgium +32 2 482 30 30, Finland +358 9 329 100,  
 France +33 2 28 03 20 00, Germany/Austria/Switzerland +49 6103 4081002,  
 Italy +39 02 251 1141, Netherlands +31 76 571 4440,  
 Russia/CIS +7 812 325 8045, Spain/Portugal +34 93 223 3154,  
 UK/Ireland +44 870 609 9203 **Asia:** India +91 22 5542 9494,  
 Japan +81 45 453 9220, China +86 21 5465 7588,  
 Other Asian countries + 33 2 28 03 20 00

**www.thermo.com/finnpipette**

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