

# Thermo Scientific S1 Pipet Filler

Instructions for Use

Guide d'utilisation

Bedienungsanleitung

取扱説明書

사용 설명서

说明书



### **WEEE Compliance:**

This product is required to comply with the European Union's Waste Electrical & Electronic Equipment (WEEE) Directive 2002/96/EC. It is marked with the following symbol:



Thermo Fisher Scientific has contracted with one or more recycling/disposal companies in each EU Member State, and this product should be disposed of or recycled through them. Further information on Thermo Fisher Scientific's compliance with these Directives, the recyclers in your country, and information on Thermo Scientific products which may assist the detection of substances subject to the RoHS Directive are available at [www.thermo.com/WEEERoHS](http://www.thermo.com/WEEERoHS)

### **Conformité WEEE:**

Ce produit doit être conforme à la directive européenne (2002/96/EC) des Déchets d'Équipements Électriques et Électroniques (DEEE). Il est marqué par le symbole suivant:



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Dieses Produkt muss die EU Waste Electrical & Electronic Equipment (WEEE) Richtlinie 2002/96/EC erfüllen. Das Produkt ist durch folgendes Symbol gekennzeichnet:



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Änderung von Produktbeschreibungen ist vorbehalten ohne vorherige Benachrichtigungt.

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## Thermo Scientific S1 Pipet Filler

**ENGLISH**..... 4-8

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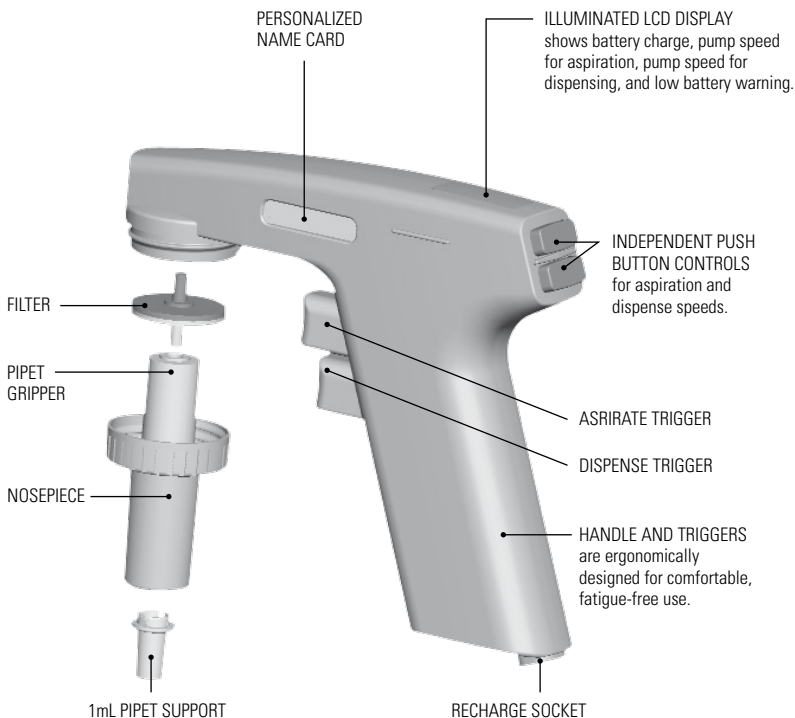
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# Thermo Scientific S1 Pipet Filler

## Pipettor Overview



MANY USEFUL ACCESSORIES are included to provide for your specific applications. See inside for details.



## Thermo Scientific S1 Pipet Filler: Cordless Pipettor With Advanced Solid State Technology



### **Congratulations!**

You have purchased a lightweight, compact, cordless Thermo Scientific S1 Pipet Filler. Designed for use with graduated and volumetric glass and plastic pipets, S1 Pipet Filler offers simple, efficient pipetting performance and maximum pipetting comfort.

Operating on a heavy-duty, rechargeable lithium-ion battery, this pipettor can operate approximately 3 to 4 times longer between charges than typical units using nickel cadmium batteries.

### **Before You Begin**

Included in this S1 Pipet Filler package, you should find the following:

- Thermo Scientific S1 Pipet Filler
- Power Supply (for charging battery or for use with AC current)
- Wall-Mounted Holder
- Table-Mounted Stand
- Pipet Support to Eliminate Wobble with 1mL Pipets
- Name Cards and Clear Covers for Personalizing Your S1 Pipet Filler
- Certificate of Warranty and Warranty Registration Card
- Power Adapters for International Use



If you are missing any of the above items, please contact your Thermo Scientific representative.

# Thermo Scientific S1 Pipet Filler

## Charging/Recharging

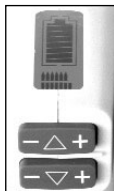
**Warning:** Use only the original Thermo Scientific S1 Pipet Filler charger and battery pack.

The pipet filler battery may be discharged when delivered and must be charged before initial use. Insert the country specific power plug adapter into the power supply unit. Plug the power supply into the recharge socket at the base of the pipettor's handle and the other end to an AC wall socket. Allow the unit to charge anywhere from 15 minutes to 2 hours. **To extend the battery life cycle, it's recommended to charge the pipet filler every two months even if it is not used on a daily basis. A typical S1 Pipet Filler battery lasts for approximately 400 charging cycles. Please note that a depleted battery can cause the pipette to malfunction. We recommend that at a minimum you should charge the battery every 3 years.** For added ease and convenience, S1 Pipet Filler features:

- A battery icon on the LCD display that indicates the level of battery charge -- the more bars, the greater the charge.
- Special circuitry that makes it impossible to overcharge the battery and that allows the pipettor to be charged or partially charged at any convenient time.

## Using S1 Pipet Filler

To use your S1 Pipet Filler, insert a pipet securely in the holder and follow these simple directions:



## To Aspirate

Insert the pipet into your sample and depress the upper trigger.

## To Dispense

Insert the pipet into your chosen vessel and depress the lower trigger. (Partially depressing the trigger allows for controlled gravity dispensing.)

## To Set The Pump Speed

Buttons on the rear of your S1 Pipet Filler unit allow you to set your aspiration (upper button) and dispense (lower button) speeds. Eight speeds are available for each function – simply push “+” for faster and “-” for slower. Your selection will be displayed on the lower portion of the pipettor's LCD. A zero speed selection on dispense enables gravity dispensing.

## Disinfecting And Disassembling

The entire S1 Pipet Filler can be cleaned with most common laboratory disinfectants but must not be submerged in liquid. To prepare the unit for cleaning:

- Remove the nosepiece by turning the housing in a counterclockwise direction.
- Remove the silicone rubber pipet gripper from the nosecone. Pipet gripper and nosecone may be autoclaved.

## Air Filter

Aspiration rate slowing may be a sign that the air filter needs replacing. To do so, remove the nosepiece and pipet gripper, pull the filter firmly and wiggle to remove from body.

### Wall Attachment

The enclosed S1 Pipet Filler wall mount may be attached to a smooth, clean surface using the adhesive backing (also included). For best results, wipe the wall surface with alcohol, let dry, press wall mount firmly in place and allow to set overnight before using. For rough surfaces, mount with screws.



### 1mL Pipet Support

To enhance pipetting performance when using 1mL pipets, S1 Pipet Filler features a unique pipet support. Simply snap the accessory into the nosecone housing, insert your pipet, and perform your chosen application with a stable, wobble-free pipet.



### Power Requirements

Power supply input	100V AC or 240V AC, 50-60 Hz, 0.2A
Power supply output	6.0V DC, 0.5A, Constant Current

#### EXPLANATION OF SYMBOLS ON POWER SUPPLY

---	=	DC Symbol
↑	=	For Indoor Use Only
□	=	Class 2 Power Supply

### Environmental Operating Conditions

For optimum performance, your S1 Pipet Filler should be used under the following range of conditions:

Operating altitude	0-1,524m
Operating temperature	10-35°C
Relative humidity	10-95% non-condensing
Mains supply voltage fluctuations (for external power supply)	90V AC or 264V AC
Transient overvoltage (for the power supply)	Installation Category II
Applicable rated pollution degree	Pollution Degree 2 (normally only non- conductive pollution occurs)

# Thermo Scientific S1 Pipet Filler

## Hazards And Precautions

There are no known hazards associated with the S1 Pipet Filler when it is operated in accordance with the instructions in this manual. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

## Technical Information

For technical assistance or to reorder, contact your nearest Thermo Scientific representative. See back cover for details.

## S1 Pipet Filler models and Accessories

Item No.	Description	Unit
95*	S1 Pipet Filler	1
9066	Single Pipet Filler Wall Mount Stand	1
9067	Single Pipet Filler Table Mount Stand	1
9069	Single Pipet Filler Wing Stand**	1
9065	Silicone Pipet Gripper	4/case
9070	1 ml Pipet Filler Support	1
9068	Power Supply (Universal Input)	1
9057	Hydrophobic Filters, 0.45 $\mu$ m, Sterile	25/box
4580560	Hydrophobic filters, 0.45 $\mu$ m, Non-Sterile	5/bag
9064	Nosepiece (holder, silicone gripper, filter)	1

\*Available Colors: 01 = White, 11 = Clear, 21 = Blue, 31 = Red, 41 = Green

\*\*Not available for use or sale within the United States or for importation into the United States.



## Technical Support:

Europe and Asia:  
[info.pipettes@thermofisher.com](mailto:info.pipettes@thermofisher.com)

North America:  
[ushudtechnicalservices@thermofisher.com](mailto:ushudtechnicalservices@thermofisher.com)

Visit [www.thermoscientific.com](http://www.thermoscientific.com) for additional product information

Visit [www.thermoscientific.com/glp](http://www.thermoscientific.com/glp) for application notes, videos  
and to learn good laboratory pipetting practices

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