Liquid handling solutions

FluidEase Electronic Pipette Charging Stand

User Manual

Revision 2.0

Document code: 1517960 • Mar 2026

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This product is covered by patents issued in the US.

For patent coverage, see http://www.thermofisher.com/pipetteip

www.thermofisher.com/FluidEase

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Introduction

The Thermo Scientific™ FluidEase™ Charging Stand supports up to four wireless charging positions, allowing users to conveniently charge their pipettes without the need for a USB Type-C cable connection.

In addition to charging, the stand includes temporary resting slots that allow users to briefly place pipettes with tips attached during short breaks in their work.

The charging stand has a modular design that allows configuration with one to four charging positions, adaptable to various workspace and application needs.

The charging stand is designed for charging the FluidEase Pipette, refer to Compatible Pipette Models for more information.

Using this Manual

Read the user manual before using the charging stand for the first time.

Package contents

The charging stand package contains the following items (as shown in Figure 0-1):

1. Right-hand side leg
2. Left-hand side leg
3. Charging dock and Front beam
4. Universal power supply charger
5. Separate screws
6. Hex Key
7. Clip
8. Quick Guide

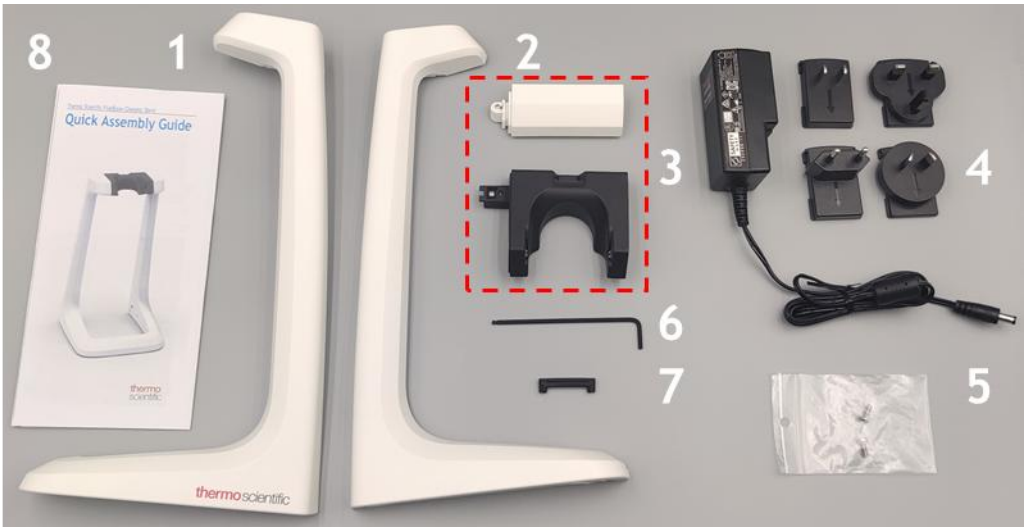

Figure 0-1

Remove the content from the package and check that all items listed above are included. Inspect for possible shipping damage.

Ensure that the input voltage of the power supply charger is 100-240V and the output is 9V 2.5A.

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Technical Specifications

Compatible Pipette Models

The charging stand is compatible with the following pipette models:

Sale Unit Code	Pipette Model
4674010	FluidEase Pro ClipTip 1-ch 0.5-10 µl
4674020	FluidEase Pro ClipTip 1-ch 2.5-100 µl
4674030	FluidEase Pro ClipTip 1-ch 5-200 µl
4674040	FluidEase Pro ClipTip 1-ch 10-300 µl
4674050	FluidEase Pro ClipTip 1-ch 20-1000 µl
4676010	FluidEase Pro ClipTip 8-ch 0.5-10 µl
4676020	FluidEase Pro ClipTip 12-ch 0.5-10 µl
4676030	FluidEase Pro ClipTip 8-ch 2.5-100 µl
4676040	FluidEase Pro ClipTip 12-ch 2.5-100 µl
4676050	FluidEase Pro ClipTip 8-ch 5-200 µl
4676060	FluidEase Pro ClipTip 12-ch 5-200 µl
4676070	FluidEase Pro ClipTip 8-ch 10-300 µl
4676080	FluidEase Pro ClipTip 12-ch 10-300 µl
4676090	FluidEase Pro ClipTip 8-ch 25-1250 µl
4676100	FluidEase Pro ClipTip 12-ch 25-1250 µl
4676110	FluidEase Pro ClipTip 16-ch 0.5-10 µl
4676120	FluidEase Pro ClipTip 16-ch 1-30 µl
4676130	FluidEase Pro ClipTip 16-ch 3-125 µl

Power Supply Unit Rating

Input: 100-240V~ 50/60 Hz.

Output: 9.0Vdc 2.5A max.

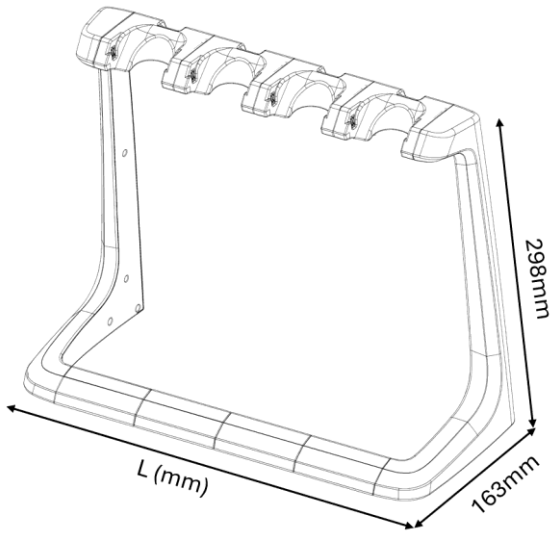
This charging stand is powered by a 9V, 2.5A external power supply. It regulates and steps down the output to a suitable level for charging each connected pipette.

Operating Conditions

The device is designed to be safe at least under the following conditions:

- Indoor use
- Altitude up to 2 000 m
- Temperature 15 °C - 35 °C
- Relative humidity 20% to 85%
- MAINS supply voltage fluctuations up to ±10 % of the nominal voltage
- TRANSIENT OVERVOLTAGES up to the levels of OVERVOLTAGE CATEGORY II
- TEMPORARY OVERVOLTAGES occurring on the MAINS supply
- Applicable POLLUTION DEGREE of the intended environment (POLLUTION DEGREE 2)

Dimension and Weight



	Stand with 1 position	Stand with 2 positions	Stand with 3 positions	Stand with 4 positions
Length L, mm	151	223	295	367
Weight, g (without charger)	563	675	787	900

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Getting Started

Assembling the Stand

The Thermo Scientific FluidEase Charging Stand can be assembled by the user as a 1, 2-, 3- or 4-position pipette stand. The charging stand supports up to four charging docks, providing one to four charging positions as needed.

The FluidEase Charging Stand base includes a single-position setup. Additional positions can be added using an optional FluidEase Charging Stand Extension kit, available separately.

The FluidEase Charging Stand is supplied as individual components. Assemble the stand according to the following instructions.

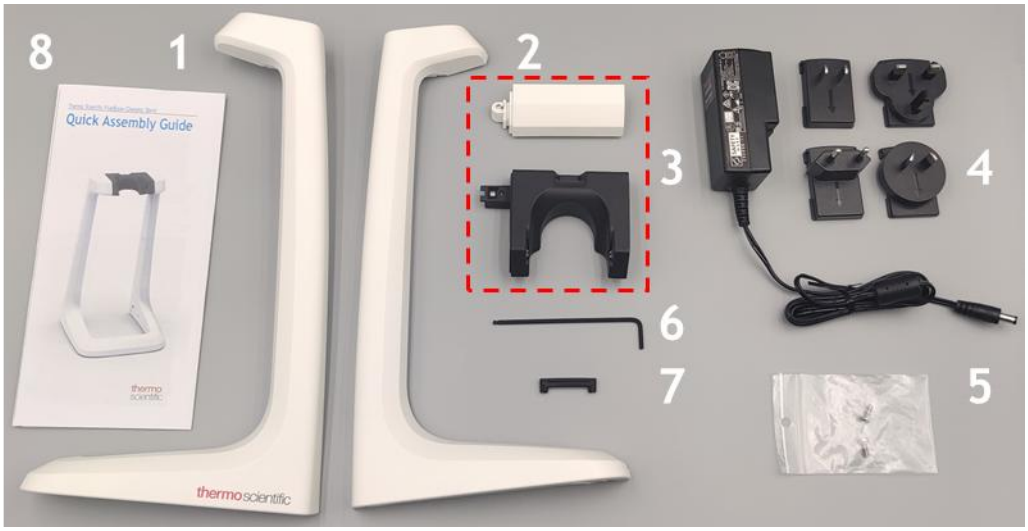


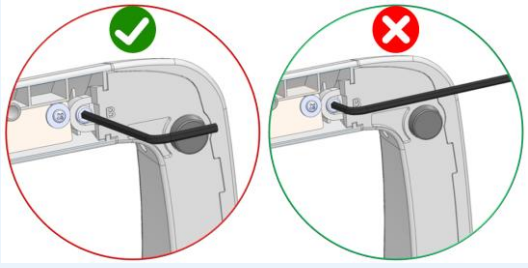
Figure 0-1

Kit contains: 1: Right-hand side leg (RH-leg), 2: Left-hand side leg (LH-leg), 3: Charging dock and Front beam, 4: Universal power supply charger, 5: Separate screws, 6: Hex Key, 7: Clip, 8: Quick Guide.

For more information, see Figure 0-1.

The Clip (7) is only used when the charging stand is extended to support two to four positions.

Note Do not overtighten screws. Use only the shorter arm of Hex Key for tightening.



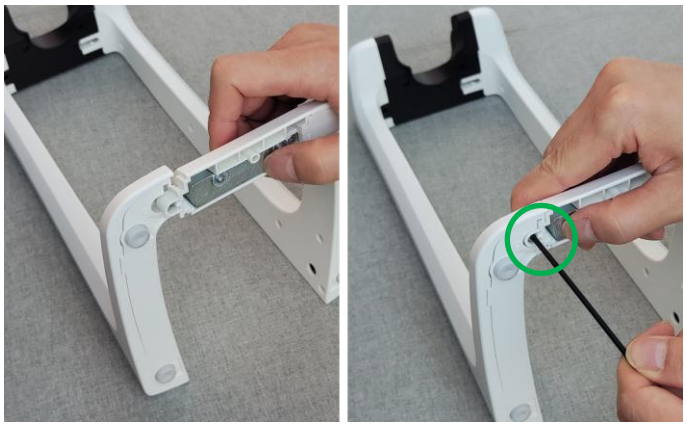
The package includes four power plug adapters: (1) China/USA, (2) United Kingdom, (3) Europe, (4) Australia. Insert the adaptor that matches your local mains into the power supply charger. For more information, see Figure 0-2.

Figure 0-2

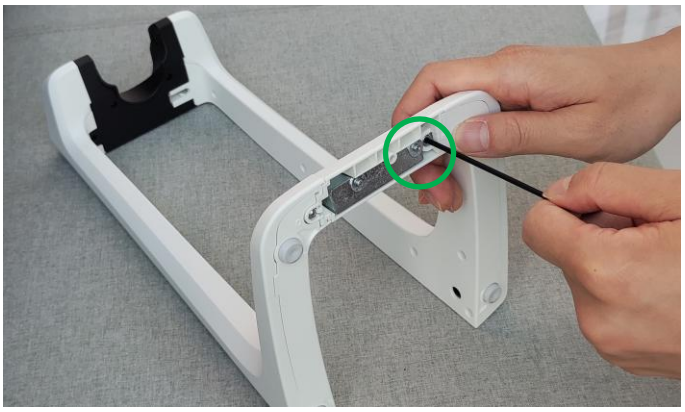
1. Attach the charging dock to the RH-leg and grip them together. Insert a separate screw (circled in green), ensure correct alignment, and tighten. Do not overtighten.

2. Attach the LH-leg to the charging dock. Tighten the screw that is integrated into the dock module (circled in green). Do not overtighten.

3. Place the front beam between the LH-leg and the RH-leg. Tighten the screw that is integrated into the front beam (circled in green). Do not overtighten.

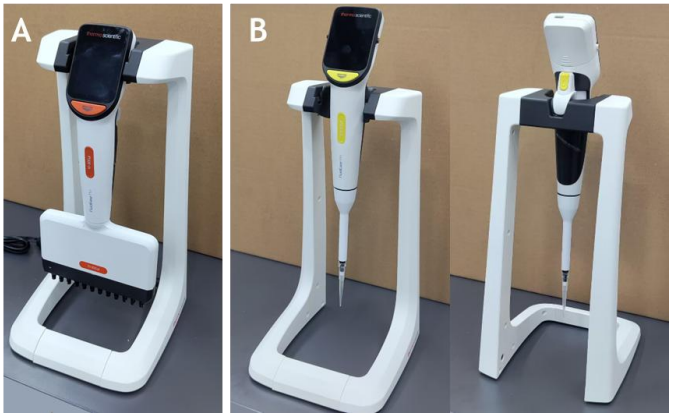


4. Insert a separate screw (circled in green). Ensure correct alignment of the screw and tighten it. Do not overtighten.



5. Insert the power jack into the RH-leg, then connect the power supply to the mains. Your charging stand is now ready for use.

6. There are two positions to place the pipette: the charging position (A) and the temporary resting position to place the pipette with tips attached (B).

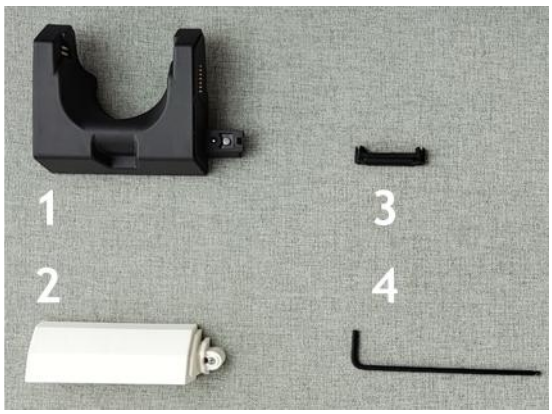


WARNING Use only the original charger of the FluidEase Charging Stand.

Assembling the Extension Kit

The extension kit is designed to add more charging positions to the charging stand.

Extension kit contains: 1: Charging dock (1pc), 2: Front beam (1 pc), 3: Clip (1 pc), 4: Hex key.



Assemble the Extension Kit by following the steps below.

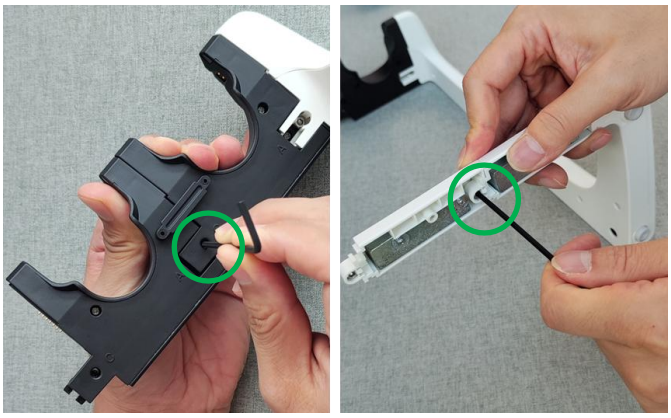
Note Do not overtighten screws. Use only the shorter arm of Hex key for tightening

1. Disconnect power supply from mains and unplug power jack. Loosen integrated screws (green circle).

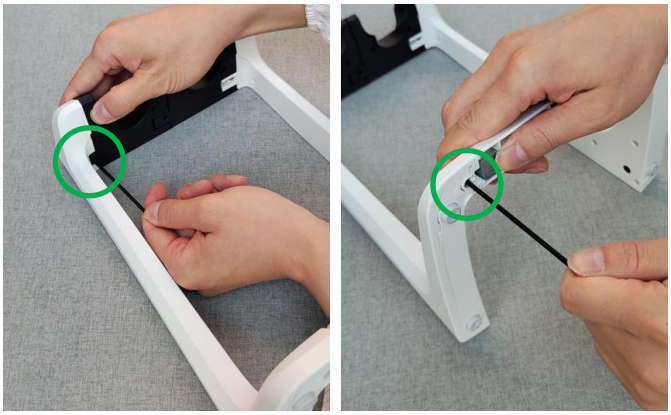

2. Remove LH-leg and put it aside.

3. Insert new charging dock onto original dock. Grip two docks (circled in green) and insert clip into screw recesses (circled in green). Keep the clip if disassemble the stand and remember to insert it back after assembling more than 1 dock.


4. Tighten screw on dock (circled in green). Insert new front beam onto original front beam. Ensure correct alignment and tighten screw on front beam (circled in green).



5. Re-attach LH-leg. Ensure correct alignment and tighten screws on dock and front beam (circled in green).



6. Repeat the above 2 steps if more than 1 extension kit is available.

7. Attach power jack into RH-leg and connect power supply to mains. Your charging stand is now ready for use.

Note One charging stand operates with max. 4 charging docks.

CAUTION

- The plug of the charger must be inserted into a socket that is easy to reach and from which it can be easily unplugged in case of emergency.
- Ensure that the charging connectors are clean and dry before attaching the cable to the stand.
- The pipette must be charged at temperatures between 15°C to 35°C. The battery may be damaged if charged at other temperatures. For indoor use only.

WARNING Use only the original charger and battery pack. The pipette battery may be empty when delivered and must be charged before initial use. It is recommended to charge the battery for at least 2 hours when charged for the first time.

WARNING Use of incorrect power supply units may result in fatal injuries and damage to the device, including overheating, burning, melting, short-circuiting of the FluidEase pipette. Only use the supplied power supply unit for charging the pipette. You can recognize the correct power supply by the Thermo Scientific logo and the pipette name on the power supply unit. Do not charge the pipette in a hot location (> 35°C).

Note While charging, the pipette will automatically go into power save mode if there is no activity after a certain period. This period can be set by the user on pipette.

Using the charging stand

Connecting the power adapter

Insert the country specific power plug adapter into the power supply unit. Attach power jack into RH-leg and connect power supply to mains**.** Your charging stand is now ready for use.

The stand has two slots in every dock, one for charging and the other for resting that can be used to place a pipette onto the stand with consumable tips on. Place the pipette's finger hook in the second slot of the dock so that the pipette is raised higher up, as shown in Figure 0-1.

The stand charges all pipettes that are placed into a charging slot at the same time. The resting slot does not charge the pipette.

Figure 0-1

The charging slot

FluidEase pipette without tips attached can be put on charging slot and then the pipette is charging.

Error! Reference source not found. shows a stand with 4 docks, and 3 out of 4 pipettes are placed into the c harging slots. A pipette to be charged can be placed into any of the charging slots.

Note Do not put pipette onto charging slot if tips are attached to the pipette, otherwise the tip will contact the stand or the table, and this will cause contamination.

The resting slot

The resting slot in the dock gives a possibility to place a pipette into the stand with consumable tips on. For example, if you need to free your hands shortly during the workflow of the laboratory work. This resting slot does not charge the pipette. The pipette is placed into the resting slot by placing the finger hook of the pipette into the second slot of the dock and by that, the pipette is raised higher up.

In Figure 0-2, higher pipettes are placed in the non-charging resting slot that enables keeping tips attached.

Figure 0-2

Note DO NOT place the following pipettes with tips on the resting slot:

- 8-ch/12-ch 1250 µL pipette with ClipTip 1250 tips
- 1-ch/8-ch/12-ch 300 µL pipettes with ClipTip 300 Ext tips.

Their overall height is excessive and may cause the tips to touch the charging stand or the work surface, leading to potential contamination.

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Maintenance and Cleaning

Cleaning Procedure and Solutions

Clean the parts with a suitable cleaning solution by wiping them with dampened cloth.

Recommended cleaning solutions:

Ethanol 70%

Isopropanol 70%

Sodium hypochlorite (bleach) 5%

Virkon 1%

Glutaraldehyde (2.5%)

Hydrogen peroxide (7.5%)

Note Disconnect the power supply before cleaning the stand or performing any maintenance. Ensure that the solution is fully dried before reconnecting the power supply cable.

Storage Recommendations

Storage temperature: ≤ 1 month -20 to +45°C (60±25% Rel. humidity)

> 1 month -10 to +35°C (60±25% Rel. humidity)

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Troubleshooting

Failure Description	Probable Cause	Solution
The pipette does not start charging or unstable charging when placed on the stand	Power supply is not properly connected	Check that the AC adapter is securely plugged into both the wall outlet and the charging stand
	The pipette is not seated correctly on the charging stand	Ensure that the pipette is placed properly in the charging slot
	The charging contacts are unstable	Check that the clip on the bottom of docks is installed correctly
	The charging contacts are contaminated or oxidized	Gently clean the charging contacts with suitable cleaning solution and then with dry, lint-free cloth, see Section **Cleaning Procedure and Solutions**

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Safety and Compliance Information

General Safety

This charging stand is designed for indoor laboratory or office use only.

The product operates at low voltage and is intended solely for charging compatible electronic pipettes.

Do not expose the charging stand to moisture, liquids, or excessive heat.

Avoid using the product near water, flammable materials, or in environments with high humidity.

Use only the original power supply and cables provided or approved by Thermo Fisher Scientific.

Disconnect the power supply before cleaning the stand or performing any maintenance.

Do not attempt to open, modify, or service the internal circuit boards (PCBA). There are no user-serviceable parts inside.

Inspect the product regularly. Stop using it if the housing, connectors, or cable insulation appear damaged.

Electrical Safety

The charging stand contains low-voltage electronic components for power conversion and connection purposes only.

The input power is limited by the external certified power supply. Ensure that the adapter meets the specified input voltage and current requirements indicated on the rating label.

This product does not include high-voltage circuits, energy storage components, or wireless transmission modules.

Regulatory Compliance

This device complies with the relevant safety and electromagnetic compatibility (EMC) requirements for laboratory and office equipment.

The product is classified as a low-voltage device and is evaluated according to applicable sections of IEC/EN 61010-1 and IEC/EN 61326-1, as implemented under local regulations. The charging stand has been tested as part of the complete pipette system during the FluidEase pipette's safety and EMC certification and is not separately certified. It is intended for exclusive use with the FluidEase pipette models only.

The product meets RoHS requirements and does not contain hazardous substances above the limits

defined in Directive 2011/65/EU and its amendments.

This product complies with REACH Regulation (EC 1907/2006). It does not contain hazardous substances above specified limits, including SVHCs listed by ECHA.

Disposal of electronic equipment must comply with local environmental regulations (WEEE Directive 2012/19/EU). The product must not be disposed of with regular household waste.

The external power adapter provided with the charging stand is certified by multiple regulatory bodies to meet electrical safety and electromagnetic compatibility requirements in various markets globally.

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Appendix

Appendix 1. Spare Parts and Accessories

	Code	Description	Note
	9420520	FluidEase Charging Stand base, 1-pos	Includes parts for assembling a 1-position stand and the charger
	9420530	FluidEase Charging Stand Extension kit, 1-pos	Includes parts for extending a stand with one additional charging position
	12906740	Stand Charger, labelled-spare part	Includes four different power plug adapters

This product is covered by patents issued in the US.

For patent coverage, see **http://www.thermofisher.com/pipetteip**

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