

**Thermo Scientific
8-Channel Handheld
Screw Cap Capper/
Decapper**

User Manual



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:



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WEEERoHS

WEEE Konformität:

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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Les spécifications des produits peuvent être modifiées sans préavis.

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Änderung von Produktbeschreibungen ist vorbehalten ohne vorherige Benachrichtigungt.

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1 Decapper Overview and Compatibility

1.1 Designed for use with:

1.1.1 Thermo Scientific Matrix 2D ScrewTop tubes (blue buttons and trigger)

- 4906: Thermo Scientific Matrix ScrewCap Tray, empty, 5 trays/case
- 4477: Thermo Scientific Matrix ScrewCap Tray, colorless caps, 5 trays of 96 caps/case
- 3740: 1.0 ml Thermo Scientific Matrix 2D ScrewTop tubes, bulk, 480/case
- 3741: 1.0 ml Matrix[®] 2D ScrewTop tubes, 5 racks of 96 tubes/case
- 3742: 1.0 ml Matrix 2D ScrewTop tubes, uncapped, 5 racks of 96 tubes/case
- 3743: 500 µl Matrix 2D ScrewTop tubes, bulk, 480/case
- 3744: 500 µl Matrix 2D ScrewTop tubes, 5 racks of 96 tubes/case
- 3745: 500 µl Matrix 2D ScrewTop tubes, uncapped, 5 racks of 96 tubes/case
- All tubes are sterile with a V-bottom design. Colored cap options are available with all product configurations. Please contact your sales representative for details.

1.1.2 Thermo Scientific Nunc Cryobank 2D barcoded tubes (black buttons and trigger)

- 374082: 500 µl Nunc[™] Cryobank 2D barcoded tubes, 2 racks of 96 tubes/case
- 374086: 500 µl Nunc Cryobank 2D barcoded tubes, 10 racks of 96 tubes/case
- 374084: 1.0 ml Nunc Cryobank 2D barcoded Tubes, 2 racks of 96 tubes/case
- 374088: 1.0 ml Nunc Cryobank 2D Barcoded Tubes, 10 racks of 96 tubes/case
- 374066: 500 µl Nunc Bank-It 2D Barcoded Tubes, 2 racks of 96 tubes/case
- 374074: 500 µl Nunc Bank-It 2D Barcoded Tubes, 10 racks of 96 tubes/case
- 374070: 1.0 ml Nunc Bank-It 2D Barcoded Tubes, 2 racks of 96 tubes/case
- 374078: 1.0 ml Nunc Bank-It 2D Barcoded Tubes, 10 racks of 96 tubes/case
- 374017: Racked Cryobank Caps, 10 racks of 96 caps/case

- All tubes are sterile with a U-bottom design. Colored cap options are available with all product configurations. Please contact your sales representative for details

1.2 Hazards and Precautions

1.2.1 There are no known hazards associated with the Thermo Scientific 8-Channel Decapper when it is operated in accordance with the instructions in this manual

1.2.2 If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired

1.3 Environmental Operating Conditions

1.3.1 Operating Temperature: 10-35 °C (50-95 °F)

1.3.2 Relative Humidity: 10-95% non-condensing

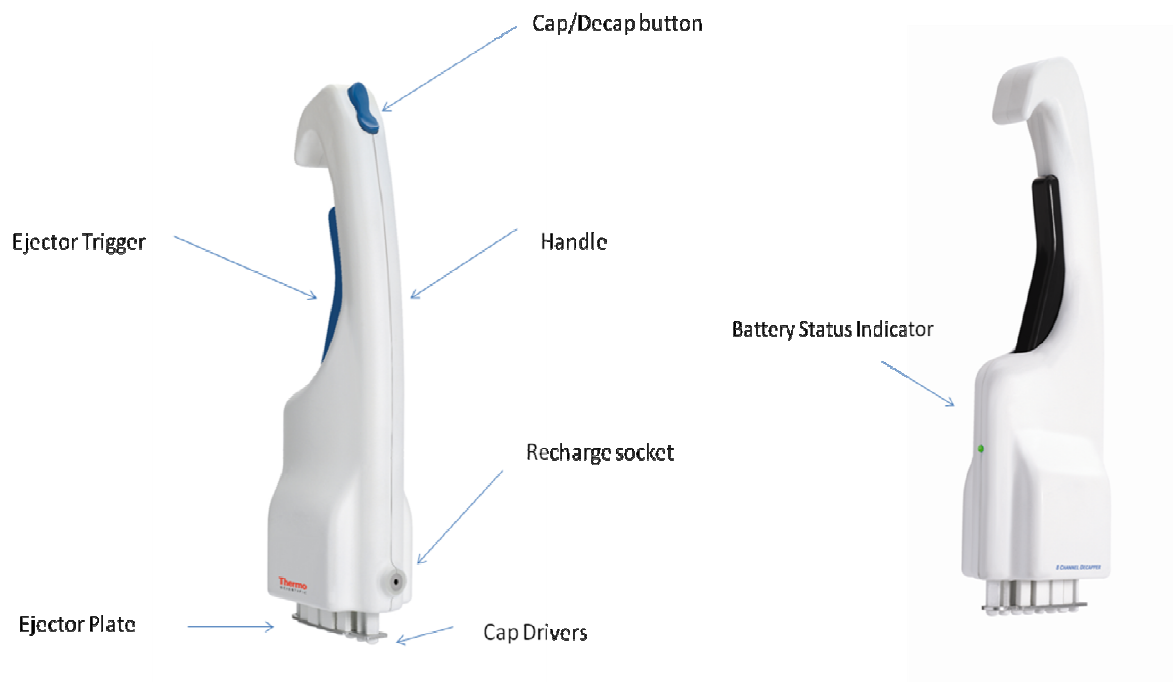
2 Parts

2.1 Included in this packaging should be the following:

- 1) Thermo Scientific 8-Channel Decapper
- 2) Power Supply (for charging battery or for operation with AC current)
- 3) Desktop Stand
- 4) Rack of Matrix or Nunc Caps (depending upon model ordered)
- 5) Operation Manual
- 6) Certificate of Warranty and Warranty Registration Card
- 7) Power Adapters for International Use

2.2 If any of the above parts are missing, please contact your Thermo Fisher Scientific representative or their authorized distributor




2.3 All critical parts of the Thermo Scientific 8-Channel Decapper are identified below



3 Basic Operation

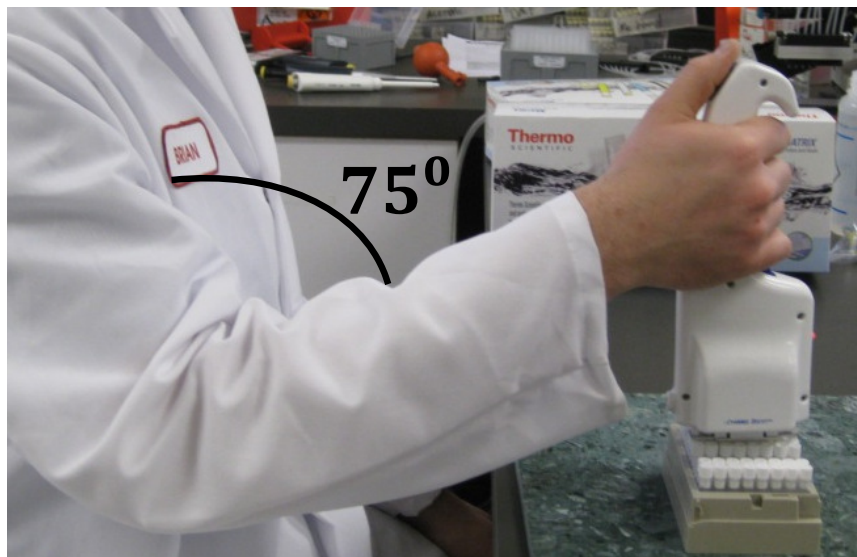
3.1 Power Requirements

- 3.1.1 Power supply input: 100 V-240V AC, 50/60 Hz, 0.5 A
- 3.1.2 Power supply output: 12.0V DC, 1.0 A, constant voltage
- 3.1.3 Explanation of symbols on power supply:

- for indoor use only = 
- Class 2 power supply = 
- DC Symbol = 

3.2 Decapping Technique

- 3.2.1 Hold the decapper loosely with a 75° angle between the forearm and upperarm to minimize potential muscle strain



3.3 Charging the Decapper

- 3.3.1 Before first-time use, charge the decapper by plugging the power supply into the recharge socket at the base of the handle.
- 3.3.2 Simply plug the other end into a standard 100- 240 volt, 50-60 Hz wall socket and allow the unit to charge up to 2 hours at which time the unit will be fully charged

3.3.3 For added ease and convenience, the decapper features:

- A bi-color LED on the front of the handle that indicates the level of battery charge
 - LED alternatively blinking **Red** & **Green** = Charging
 - Solid **Green** = In operation or charge complete
 - Blinking **Red** = Low battery
- Special circuitry that makes it impossible to overcharge the battery and that allows the decapper to be charged or partially charged at any convenient time

3.3.4 For long-term storage, it is recommended that the decapper remain connected to the charger to ensure the instrument is ready for operation

3.4 Decapping

3.4.1 Place the decapper over row of tubes to be decapped, making sure that the ejector plate is parallel with tops of caps




TIP: Line up the cap driver closest to the recharge socket with the tubes that are closest to you. The other drivers and tubes will then line up

3.4.2 While lightly pushing down on caps, toggle the “▽” button on the handle to make sure all of the caps have been seated properly into the cap drivers

3.4.3 Once all of the caps are seated, push the “△” button on handle until the tubes are decapped

3.5 Capping/Recapping

3.5.1 Apply the caps from the cap tray onto the cap drivers. Line up the decapper with the row of tubes to be recapped, making sure the ejection plate is parallel with the tubes

3.5.2 Push the “” button to cap. **DO NOT push caps on.** Let the caps screw onto the tubes on their own

3.5.3 Once the caps are securely on the tubes, squeeze the ejection trigger to remove the caps from the cap drivers

3.6 Ejecting Caps

3.6.1 Once the tubes have been decapped, line up the decapper with an empty row on the cap tray

3.6.2 Insert caps into cavities in cap tray

3.6.3 Squeeze ejection trigger

3.6.4 Lift decapper away from the tray while still holding ejection trigger down

4 Maintenance and Service

4.1 Decontamination

4.1.1 The entire 8-Channel Decapper can be cleaned with most common laboratory disinfectants but must not be submerged in liquid

4.1.2 This instrument contains electrical components that cannot be autoclaved

4.1.3 Steps to disinfect:

- Wet a cloth with the desired disinfectant
- Wipe down decapper making sure not to drip disinfectant into the inner cavity

4.1.4 Suggested Disinfectants:

- Alcohol Wipes
- 5% Bleach Solution
- RNase Away
- DNA Away

4.2 Service/Maintenance

Service the decapper after 30,000 cycles, 2500 racks, or 1 year of continuous use, whichever occurs first.

5 Disposal

The disposal of the decapper is the responsibility of the customer and must be done in an environmentally responsible manner

6 Warranty

- 6.1 A 12-month warranty is included with the decapper purchase
- 6.2 A preventive maintenance and service package is available from Thermo Fisher Scientific (or appointed distributor). Details are available on request. Please see cover page for customer service details

NOTES

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