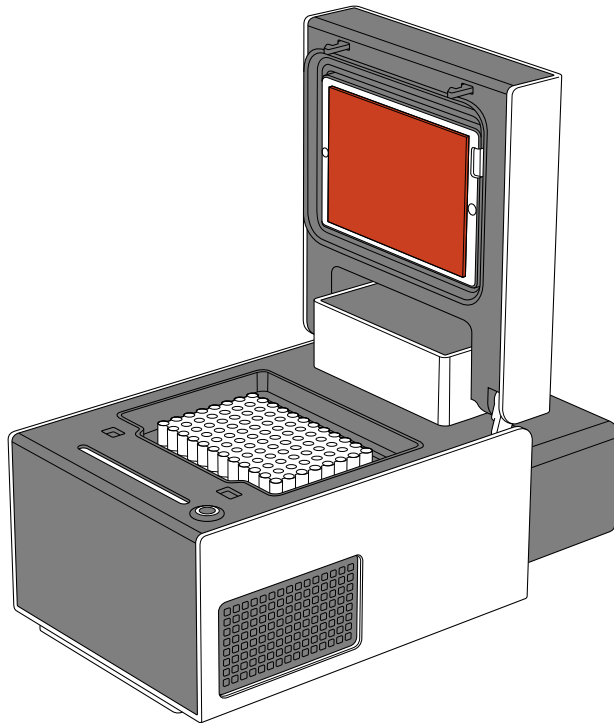




# Thermocycler Module GEN2

## Quickstart Guide



**Opentrons Labworks Inc.**

**Edition**

GEN2, December 2022

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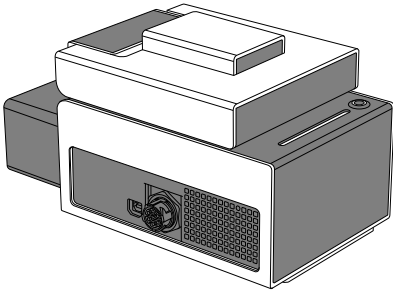
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## **Post-sales service & contacting Opentrons**

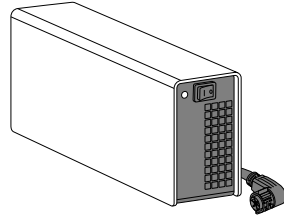
If you have any questions about the use of the module  
or your Opentrons platform, please contact:

[support@opentrons.com](mailto:support@opentrons.com). Also visit [www.opentrons.com](http://www.opentrons.com).

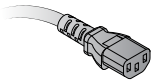
# Product Elements



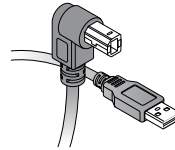
**(1) Thermocycler**



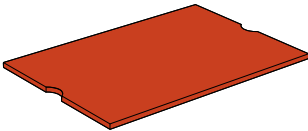
**(1) Power Supply and Power Supply Connector**



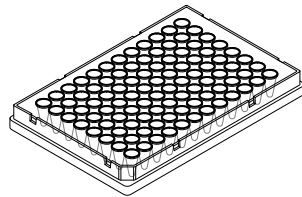
**(1) Power Cable**



**(1) USB Cable**



**(5) Rubber Automation Seals**

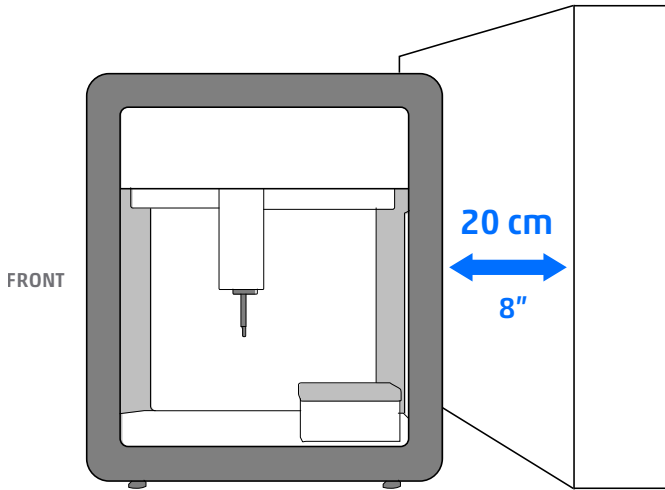


**(10) Opentrons Tough PCR Plates**

# Setup Instructions

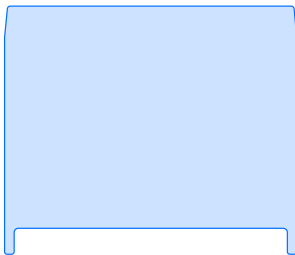
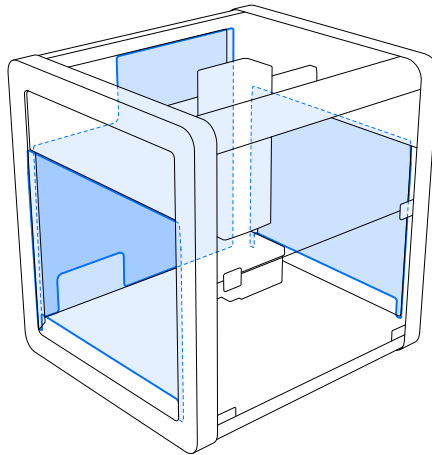
## VENTILATION REQUIREMENTS

To allow for sufficient fan output from the Thermocycler, at least 20 cm / 8 inches of empty space is required between the unit and a wall.

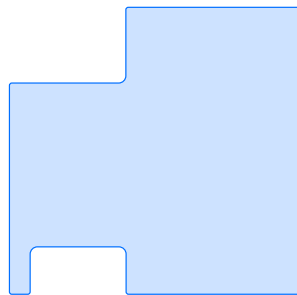


# Setup Instructions

Also for ventilation, and to provide enough space for the power and USB cables to connect to the module, Opentrons advises using the OT-2 side and rear panels shown below:



2x Side Panels



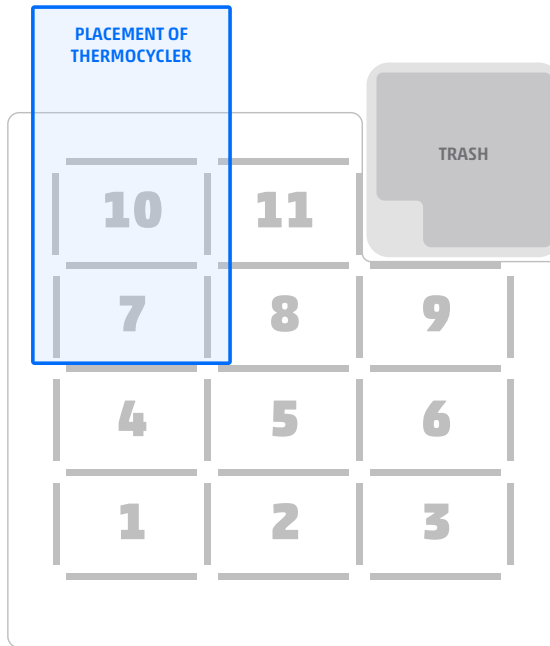
1x Rear Panel

Note: These panels are included with newer models of the OT-2. They only need to be replaced on older models of the OT-2.

# Setup Instructions

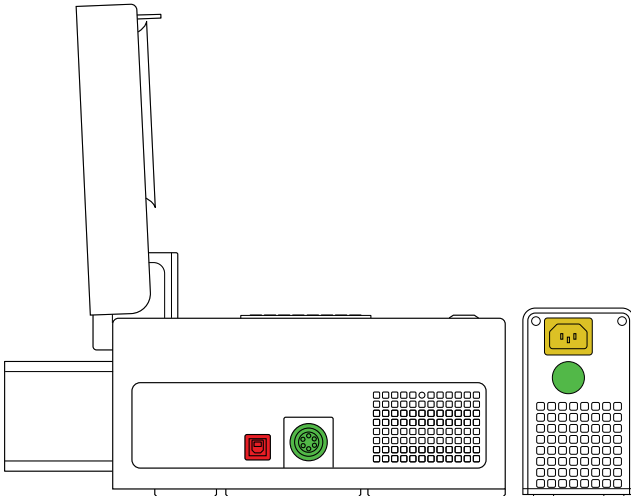
## DECK PLACEMENT AND CONNECTION

- 1 Carefully place the Opentrons Thermocycler in deck slots 7, 8, 10, and 11. Lift the module carefully, using two hands (the module weighs 8.4 kg, which is quite heavy for its size).



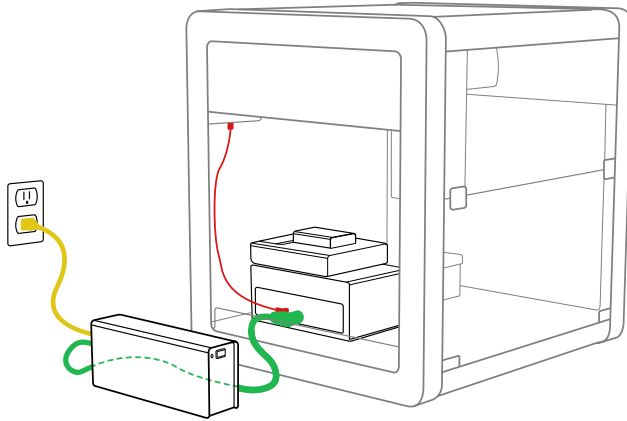
# Setup Instructions

- 2** Connect the Thermocycler to the OT-2 and power supply by plugging in the USB cable and screwing the power cable into the unit as shown. Be sure to route the cables through the opening in the polycarbonate side panel.



- Connect the USB cable to the module and an open USB port at the back of the robot
- Connect the power supply connector to the Thermocycler and then screw it on for safety
- Connect the power cable to the back of the power supply and the wall outlet

## Setup Instructions



3

Once everything is connected, power on the OT-2 and the Thermocycler power supply. If you see a white light on the Thermocycler, it is powered on. You can open and close the lid of the Thermocycler by pressing the round button on the front.

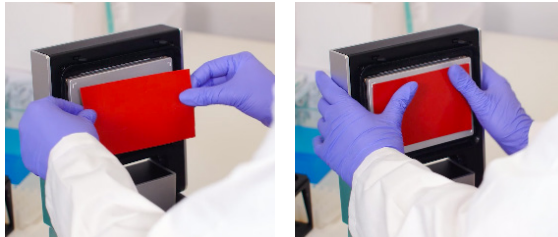


# Setup Instructions

## RUBBER AUTOMATION SEALS

Your Opentrons Thermocycler comes with 5 rubber automation seals to help reduce evaporation. Each seal must be sterilized before use and can be used for several runs. You should check the state of the seal after each run and replace it if needed. Worn or damaged seals may result in increased evaporation of samples.

- 4 Apply a seal to the lid of the module, **not** directly to the plate, to enable pipetting access.



- 5 After applying the seal, wipe it with a 1:10 dilution of bleach and let it dry. Wipe it down with molecular biology grade water and let it dry again.

Note: Seals must be sterilized before your first Thermocycler run. Thermocycler seals cannot be autoclaved.

# Resources

## MAINTENANCE

Users should not attempt to service or repair the Thermocycler Module themselves. If you have concerns about your module's performance or require maintenance, please contact Opentrons Support.

## SUPPORT

### **Opentrons Help Center**

Answers to many common questions are available on the Opentrons Help Center at <https://opentrons.com/support>.

### **Contact Opentrons**

If you have any other questions, contact [support@opentrons.com](mailto:support@opentrons.com). Please have the serial numbers of your module and robot available when contacting Opentrons Support.

### **Warranty**

All hardware purchased from Opentrons is covered under a 1-year standard warranty. Opentrons warrants to the end-user of the products that they will be free of manufacturing defects due to part quality issues or poor workmanship and also warrants that the products will materially conform to Opentrons' published specifications.

## APP DOWNLOAD

Control your liquid handling robot and module using the Opentrons App. Download the app for Windows, macOS, or Ubuntu at <https://opentrons.com/ot-app/>.

# Product and Manufacturer Description

## PRODUCT DESCRIPTION

The Opentrons Thermocycler Module GEN2 provides on-deck, fully automated thermocycling. The module enables automation of upstream and downstream workflow steps.

### **Completed Certifications**

IEC/UL/CSA, EN/BSI, FCC, IC

### **Recommended Operating Conditions**

Environmental temperature: 20–25 °C

Environmental humidity: 30–80%, non-condensing

## MANUFACTURER DESCRIPTION

### **Opentrons Labworks Inc**

45-18 Ct Square W

Long Island City, NY 11101

For a PDF of the complete **Opentrons Thermocycler  
Module GEN2 Instruction Manual**, scan this QR code:

