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> CERA+ Self-Heating Portable Espresso Machine (Model PCM03S) User Manual

## CERA+ PCM03S

# CERA+ Self-Heating Portable Espresso Machine (Model PCM03S) User Manual

## 1. INTRODUCTION

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Thank you for choosing the CERA+ Self-Heating Portable Espresso Machine, Model PCM03S. This device is designed to provide a convenient and high-quality espresso experience wherever you are. Featuring a self-heating function, 20-bar extraction pressure, and compatibility with both NS capsules and ground coffee, it is ideal for travel, outdoor activities, or office use.



Figure 1: CERA+ Self-Heating Portable Espresso Machine (PCM03S)

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your espresso machine. Please read it thoroughly before first use and retain it for future reference.

## 2. PRODUCT OVERVIEW

The CERA+ PCM03S is engineered for portability and performance. Key features include:

- **Self-Heating Capability:** Heats water from 77°F (25°C) to 198°F (92°C) in approximately 140 seconds for 1.7 oz (50 ml).
- **High-Pressure Extraction:** Achieves 20-bar pressure for rich, crema-topped espresso.
- **Versatile Brewing:** Compatible with NS-compatible capsules and espresso-grade ground coffee.
- **Long-Lasting Battery:** Integrated 13,500 mAh battery, providing up to 8 hot espressos (1.7 oz/50 ml) per charge.
- **Fast Charging:** USB-C PD/QC input (10-30W) allows full recharge in 2-2.5 hours.
- **Compact Design:** Weighs 730g (1.58 lbs) and measures 2.76 × 2.76 × 9.06 inches, making it air travel carry-on safe.

# WHY CHOOSE CERApresso PCM03S?



## CERApresso



### Double the Brewing Capacity

7-8 cups with 1.7oz(50ml)  
4-5 cups with 2.7oz(80ml)



### Rapid Heating Performance

140s  
1.7oz (50ml)  
from 77°F (25°C)



### Faster USB-C Recharge

30W: 2h  
20W: 3h



### Advanced battery technology

13500 mAh

## Others



4-5 cups with 1.7oz(50ml)  
2-3 cups with 2.7oz(80ml)



>220s



10W: 3h+



7500 mAh



Figure 2: Key features of the CERA+ PCM03S



**13500 MAH**  
**With a full charge**  
**internal rechargeable battery**

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**50ml**  $\frac{=1.7\text{mloz}}{\text{Heat\&brew}}$  **Up to 8 cups**  
 25°C/77°F

**80ml**  $\frac{=2.7\text{mloz}}{\text{Heat\&brew}}$  **Up to 5 cups**  
 25°C/77°F

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**Hot Water**  $\frac{\text{Brew}}{\text{Brew}}$  **500cups**

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**Charging power: 10-30W**  
**supports fast charging**

**0mAh**  $\frac{1.5 \text{ hours}}{2.5 \text{ hours}}$  **13500mAh**

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 **Carry-on compliant**

Figure 3: Battery capacity and brewing performance

### 3. SETUP

#### 3.1 Initial Charge

Before first use, fully charge the device. Connect the provided USB-C cable to the charging port on the machine and to a compatible USB-C power adapter (10-30W recommended). The battery indicator lights will illuminate during charging and show full when complete. A full charge typically takes 2-2.5 hours.

#### 3.2 First Use Preparation

It is recommended to run a cleaning cycle before brewing your first espresso. Fill the water reservoir with clean water (without coffee or capsule) and initiate a brewing cycle. Discard the water after the cycle is complete.

### 4. OPERATING INSTRUCTIONS

#### 4.1 General Operation

The CERA+ PCM03S features a single button for all operations:

- **Press and hold for 2 seconds:** Initiates heating and brewing cycle (for cold water).
- **Double-click:** Initiates brewing cycle directly (for pre-heated water).

#### 4.2 Brewing with NS Capsules

1. Unscrew the bottom cup and the capsule adapter.
2. Insert an NS-compatible capsule into the capsule adapter.
3. Screw the capsule adapter firmly back onto the main body.
4. Fill the water reservoir with purified or filtered water up to the maximum fill line.
5. Screw the bottom cup back onto the machine.
6. Place the machine on a stable surface or hold it upright over a cup.
7. **For cold water:** Press and hold the power button for 2 seconds. The machine will heat the water and then brew.
8. **For pre-heated water:** Double-click the power button. The machine will brew directly.
9. Once brewing is complete, carefully remove the bottom cup and enjoy your espresso.

#### 4.3 Brewing with Ground Coffee

1. Unscrew the bottom cup and the ground coffee adapter.
2. Fill the ground coffee basket with espresso-grade ground coffee. Do not overfill.
3. Tamp the coffee lightly.
4. Screw the ground coffee adapter firmly back onto the main body.
5. Fill the water reservoir with purified or filtered water up to the maximum fill line.
6. Screw the bottom cup back onto the machine.
7. Place the machine on a stable surface or hold it upright over a cup.
8. **For cold water:** Press and hold the power button for 2 seconds. The machine will heat the water and then brew.
9. **For pre-heated water:** Double-click the power button. The machine will brew directly.
10. Once brewing is complete, carefully remove the bottom cup and enjoy your espresso.

# Faster Self-Heating



**198°F/92 °C**



**140-240 S**



*Figure 4: Water heating process*



Figure 5: 20-bar extraction system

## 5. CHARGING

The CERA+ PCM03S is equipped with a 13,500 mAh battery, providing significant usage on a single charge. When using cold water (77°F/25°C) and brewing 1.7 oz (50 ml) espressos, the machine can produce up to 8 cups. If using pre-heated water, the battery can support over 500 shots as it only powers the pump.

To charge, use a USB-C cable and a power adapter that supports 10-30W USB-C PD/QC input. Charging time is approximately 2-2.5 hours for a full charge. The device is designed to be carry-on safe for air travel.



Figure 6: USB-C fast charging

## 6. MAINTENANCE AND CLEANING

Regular cleaning ensures optimal performance and longevity of your espresso machine.

### 6.1 Daily Cleaning

- After each use, rinse the capsule/ground coffee adapter and the bottom cup with warm water.
- Wipe the exterior of the machine with a damp cloth.
- Ensure all parts are dry before reassembling or storing.

### 6.2 Deep Cleaning / Descaling

Depending on water hardness and frequency of use, periodic descaling may be necessary to prevent mineral buildup. Use a descaling solution specifically designed for coffee machines, following the manufacturer's instructions. Run the descaling solution through the machine as if brewing, then rinse thoroughly with several cycles of clean water.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Machine does not turn on.	Low battery or no charge.	Charge the machine fully.
No water dispenses during brewing.	Water reservoir is empty.	Fill the water reservoir to the maximum line.
Espresso is weak or watery.	Insufficient coffee grounds/incorrect grind size, or capsule not properly inserted.	Ensure proper amount of fine-ground coffee or correctly insert capsule. Check water temperature.
Water is not heating.	Incorrect operation mode selected (double-click for cold water).	Press and hold the button for 2 seconds to initiate heating with cold water.

## 8. SPECIFICATIONS

Feature	Detail
Brand	CERA+
Model Name	PCM03S
Product Dimensions	2.75"D x 2.75"W x 9"H
Item Weight	1.58 pounds (730g)
Coffee Maker Type	Espresso Machine
Special Feature	Self-Heating, Lightweight
Operation Mode	Semi-Automatic
Voltage	15 Volts
Battery	13,500 mAh Lithium Ion
Coffee Input Type	NS Capsules, Ground Coffee
Charging Power	10-30W USB-C PD/QC
Extraction Pressure	20 Bar

## 9. WARRANTY AND SUPPORT

The CERA+ Self-Heating Portable Espresso Machine (Model PCM03S) comes with a **12-month warranty** from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact CERA+ customer service. Contact details can typically be found on the product packaging or the official CERA+ website.

