



**AIR-MOTION 12**

**QUICK  
SPECIFICATIONS  
OVERVIEW**

## AIR-MOTION 12: QUICK SPECIFICATIONS OVERVIEW

- Operator has total, full-variation control of convection and conduction heat transfer via a patented OCR "Open Chamber Roasting" fluid-bed 12kg Air-Roasting chamber.
- All electric | No fuel | No afterburner needed.
- Extremely low emissions | Environmentally smart.
- Achieve a clean, consistent roast - every time.

## CAPACITY / OUTPUT

**Batch Size:** Max 12kg roasting capacity.

**Roast Time:** 12 minutes (dependent on roast level).

**Output:** Max 36Kg/hour; 288Kg/day (based on 8-hour day)

## DATA LOGGING

**Internal:** 5 real-time graphs: bean temp, heater temp, RoR bean temp, RoR heater temp, and saved profile curve line.

## CONTROL POINTS

- Integrated touchscreen control panel.
- Presetting profile parameters.
- Fast-reacting thermocouples.
- Quick-response heat transfer.
- Speed controller to adjust bean lifting height during roasting.

## ELECTRICAL REQUIREMENTS

**Three-Phase:** 400V // 50Hz // 27.5 Amps

## COMPONENTS

**Air Flow:** High-efficiency 3 kW heater blower.

**Cooling:** Optional 30-40 second water dousing system for high-speed bean cooling.

**Extraction:** Centrifugal 2.6 kW extraction fan immediately moves dust, smoke, and chaff from roast chamber.

**Heating:** 27 kW Nichrome plated electrical spiral elements.

**Roast Chamber:** Stainless steel construction, durable, easy cleaning.



**Air-Motion  
Roasters are  
manufactured  
to the highest  
quality  
standards**

## Get in touch

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## Soical Links



[www.air-motionroasters.com](http://www.air-motionroasters.com)

## DIMENSIONS AND WEIGHT: AIR-MOTION 12 ROASTER COMPONENTS

To allow for best space planning, measurements account for the widest, tallest, and deepest parts of components (e.g. touchscreen arm, casters, etc.).

COMPONENT	RAW UNCRATED WEIGHT	DIMENSIONS (L x W x H)
Roast Chamber	125 KG	820mm L x 901mm W x 1352mm H
Cyclone	125 KG	1424mm L x 801mm W x 2160mm H
Cooling Tray	46 KG	911mm L x 824mm W x 399mm H
<b>TOTAL</b>	<b>296 KG</b>	

## DIMENSIONS AND WEIGHT: AIR-MOTION 12 ROASTER CRATING

CRATE	CRATED WEIGHT	CRATE DIMENSIONS (L x W x H)
Crate #1	See note below.	2260mm L x 1500mm W x 1100mm H
Crate #2	See note below.	1100mm L x 840mm W x 1420mm H
<b>TOTAL</b>	<b>495 KG</b>	

**NOTE:** Weight provided is total weight for both crates. Individual crate weights will be received prior to shipping.

## AIR-MOTION 12: CYCLONE VENTING

Exit Pipe Diameter: 247mm

Outside Diameter of aluminum flex pipe: 250mm (3mm wall thickness).

## MAINTENANCE

The only maintenance required is the emptying of the Chaff Collector Bucket every couple of days depending on the frequency of roasting and the wiping down of the Roast Chamber with a wet cloth after completion of roasting schedule for the day.

## REPLACEMENT PARTS (IF NEEDED)

The only parts that may need to be replaced due to natural wear and tear:

- Blower fan
- Element bank

Contact Air-Motion Roasters to purchase replacement parts.

## DECIBEL READING

Between 65 dB and 85 dB

## CERTIFICATIONS

CE approved and built to UL standards, IEC (International Electrotechnical Commission)

## SERVICING

No servicing is required other than the Maintenance Schedule as listed.

## WARRANTY

AMR provides a 2-year warranty on all machine parts.

## EMISSION TESTING

Emission testing report included in User Manual.

## REQUIRED CLEARANCES

Position roaster at least 500mm from walls or other equipment, and allow for at least 800mm in front of roaster for user operation.

## AIR-MOTION 12: ROASTER LAYOUT

See next 3 pages for 12kg AMR roast chamber, cooler tray, and cyclone weight, layout, and dimensions.

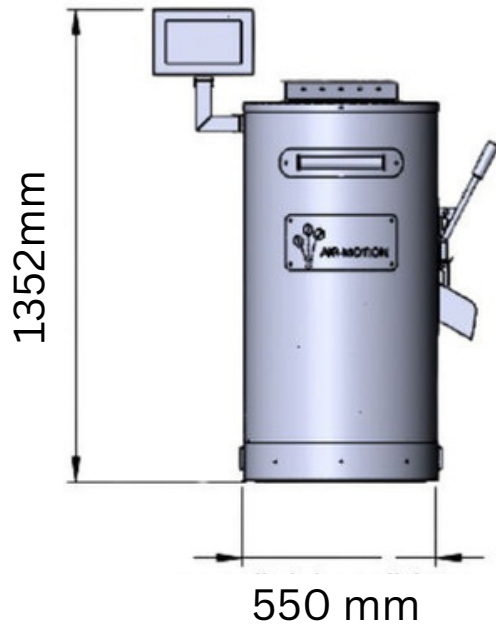




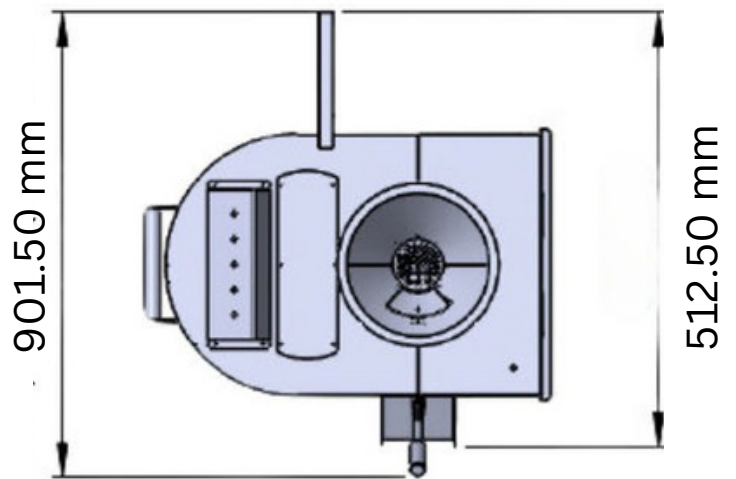
## AIR-MOTION 12: ROAST CHAMBER

WEIGHT: 125 kg

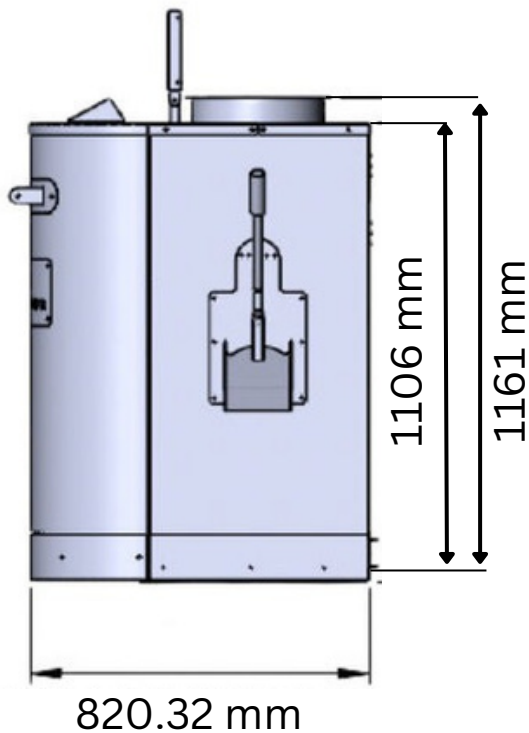
Below measurements are provided in millimeters (mm).



FRONT VIEW



TOP VIEW



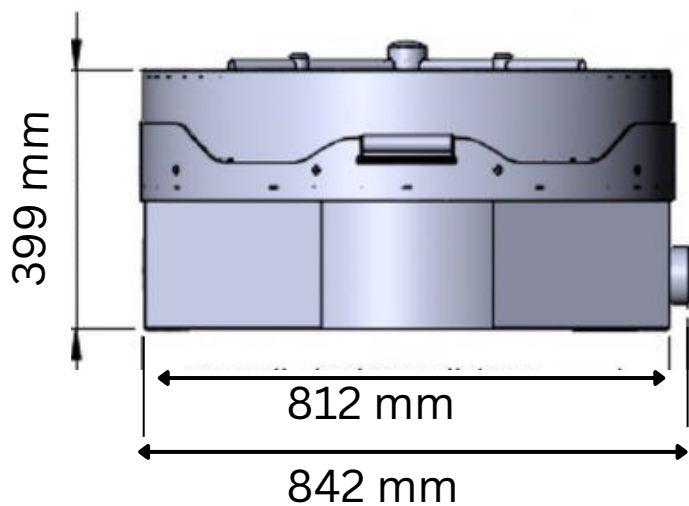
SIDE VIEW



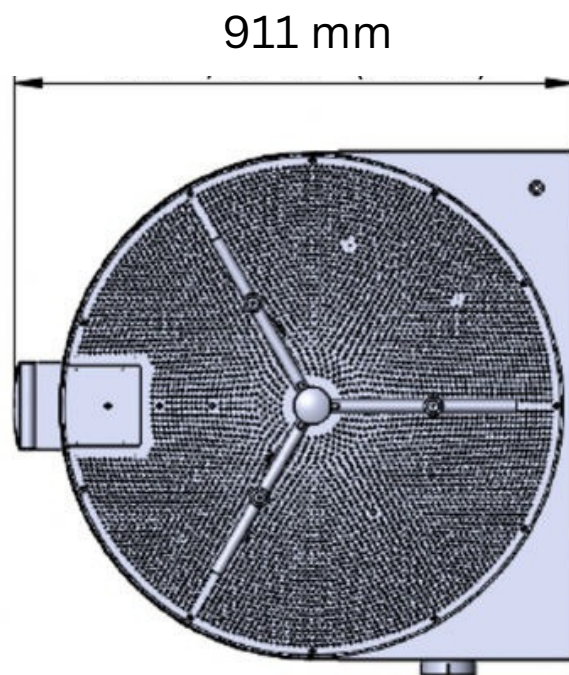
## AIR-MOTION 12: COOLING TRAY

WEIGHT: 46kg

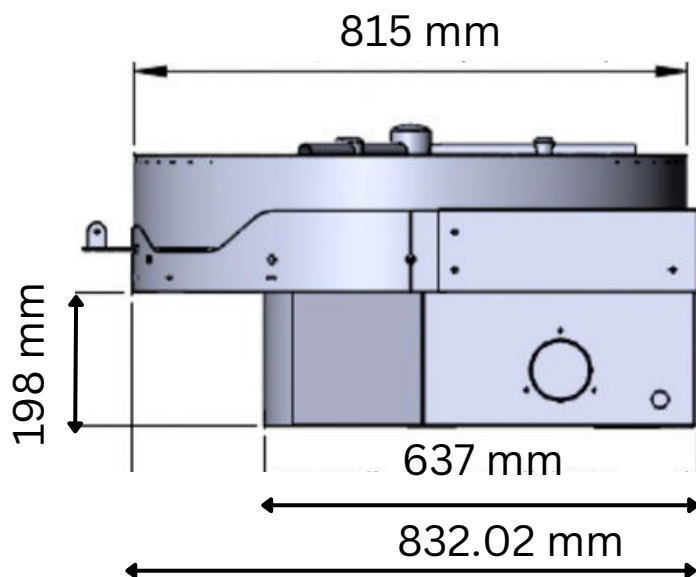
Below measurements are provided in inches, feet, and millimeters (mm).



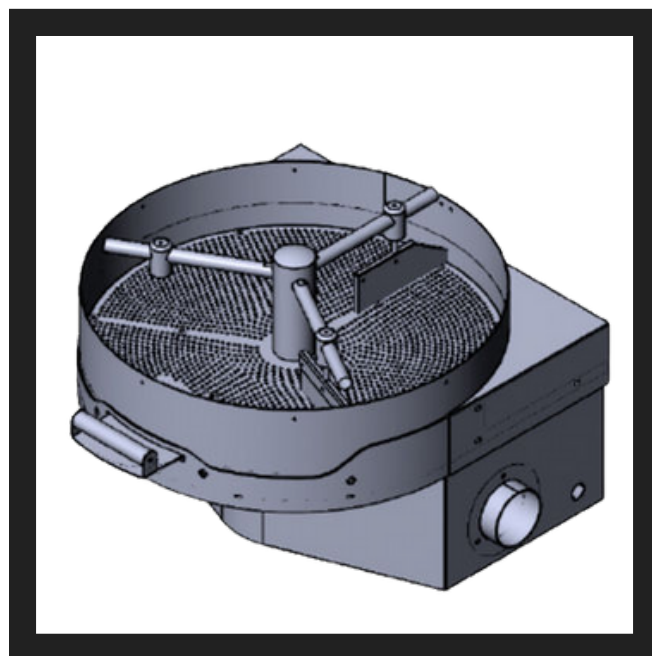
FRONT VIEW



TOP VIEW



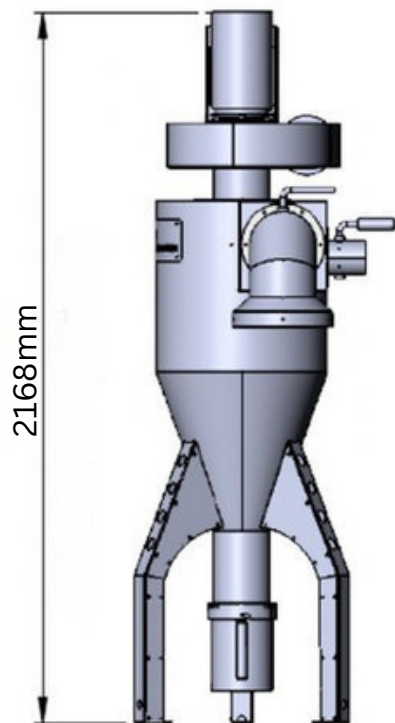
SIDE VIEW



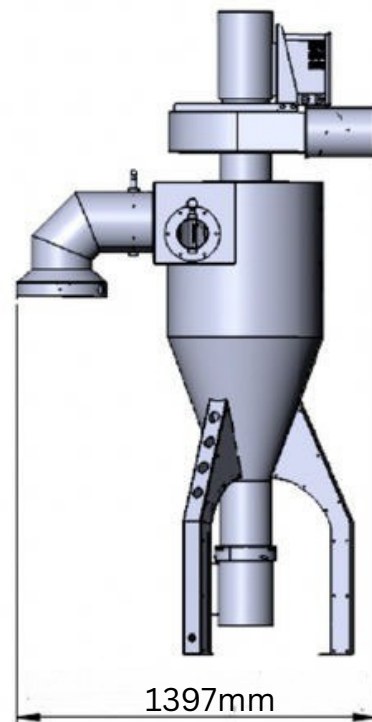
## AIR-MOTION 12: CYCLONE

WEIGHT: 125 kg

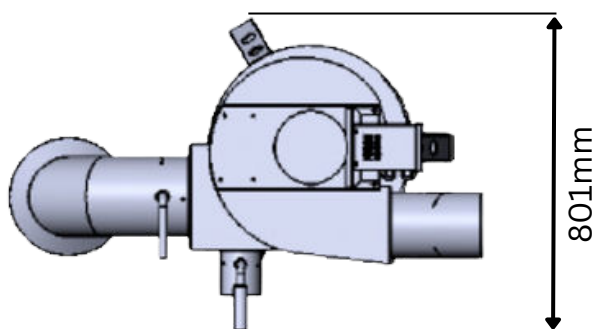
Below measurements are provided in millimeters (mm).



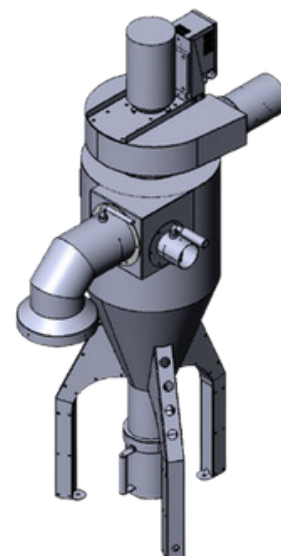
FRONT VIEW



SIDE VIEW



TOP VIEW



**Cyclone Motor**  
And Fan

**Cyclone System**

Removes Dust, Smoke & Chaff from Roast Chamber

**Touchscreen Interface**

Real-Time Information & Graphs

**Water Dousing System**

Immediately Stops Roast Once Target Temp is Reached

**Control Panel**

With Operation Control Dials

**Work Light**

**Roast Chamber**

OCR with Clear View

**Element Bank**

Immediate Heat Response Electrical Element Bank

**Cooling Tray Ducting**

Assists with Rapid Cooling of Beans in Cooling Tray

**Blower Fans**

Provides Clean Fresh Heated Air Into The Roast Chamber

**Roast Chamber Exit Chute**

**Cooling Tray**

Assists with the Rapid Cooling of Beans

