AIR-MOTION 3 QUICK SPECIFICATIONS



Overview:

- Operator has total, full-variation control of convection and conduction heat transfer via a patented "Open Chamber Roasting" fluid-bed 3 kg air-roasting chamber.
- All electric. No fuel or afterburner needed.
- Extremely low emissions. Environmentally smart.
- Clean, consistent roast every time.

AIR-MOTION 3

CAPACITY/OUTPUT

Batch Size: Max 3 kg roasting capacity (6.5 lbs of green beans)

Roast Time: 8-12 minutes (dependent on roast level)

Output: Max 25 lbs/hour; 200 lbs/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

Single-Phase: 208v // 63 Amps -OR- 240v // 56 Amps
Three-Phase: 208v // 40 Amps -OR- 240v // 33 Amps

COMPONENTS

Air Flow: High-efficiency 2 kW heater blower

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

Extraction: Centrifugal type extraction fan (2.2 kW 1ph, 1.3 kW 3ph) immediately moves dust, smoke, and chaff from roast chamber

Heating: 10.5 kW Nichrome plated electrical spiral elements

Roast Chamber: Stainless steel construction, durable, easy cleaning

Take advantage of our private, competitive lending program, **AMR Approved!**

Visit **www.air-motionroastersusa.com/financing/**

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AIR-MOTION ROASTERS™ USA

www.air-motionroastersusa.com

DIMENSIONS AND WEIGHT: **AIR-MOTION 3** 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	156.5 LBS (71 KG)	28.3" L x 32.6" W x 48.3" H (2.4' L x 2.7' W x 4.03' H)
Cyclone	178.5 LBS (81 KG)	41.2" L x 27.2" W x 75.5" H (3.4' L x 2.3' W x 6.3' H)
Cooling Tray	77.2 LBS (35 KG)	27.4" L x 24.6" W x 14.6" H (2.3' L x 2.05' W x 1.2' H)
TOTAL	**412.2 LBS (187 KG)**	

DIMENSIONS AND WEIGHT: **AIR-MOTION 3** ROASTER CRATING

CRATE	CRATED WEIGHT	CRATE DIMENSIONS (L x W x H)
Crate #1	See note below.	81" L x 49" W x 37" H (6.8' L x 4.08' W x 3.08' H)
Crate #2	See note below.	35" L x 31" W x 52" H (2.9' L x 2.6' W x 4.3' H)
TOTAL	**551 LBS (250 KG)**	

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

DIMENSIONS: **AIR-MOTION 3** FOOTPRINT

FOOTPRINT: 55.3" L x 52" W x 75.5" H
CLEARANCE: 31.5" L x 31.5" W x 20" H
ROASTER HEIGHT: 75.6"
MINIMUM CEILING HEIGHT: 81"

AIR-MOTION 3 CYCLONE VENTING DIAMETER

Exit Pipe Diameter: 147mm
Outside Diameter of aluminum flex pipe: 150mm (3mm wall thickness)
Purchase ducting from **Nordfab** or **Selkirk**.

AIR-MOTION 3 WATER SPECIFICATIONS

Intake Connection: 1/4″ NPT pipe
Pressure: 60 psi

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.

SERVICING

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

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 USA to purchase replacement parts.

WARRANTY

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

DECIBEL READING

85 dB

EMISSION TESTING

Emission testing report included in User Manual.

CERTIFICATIONS

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

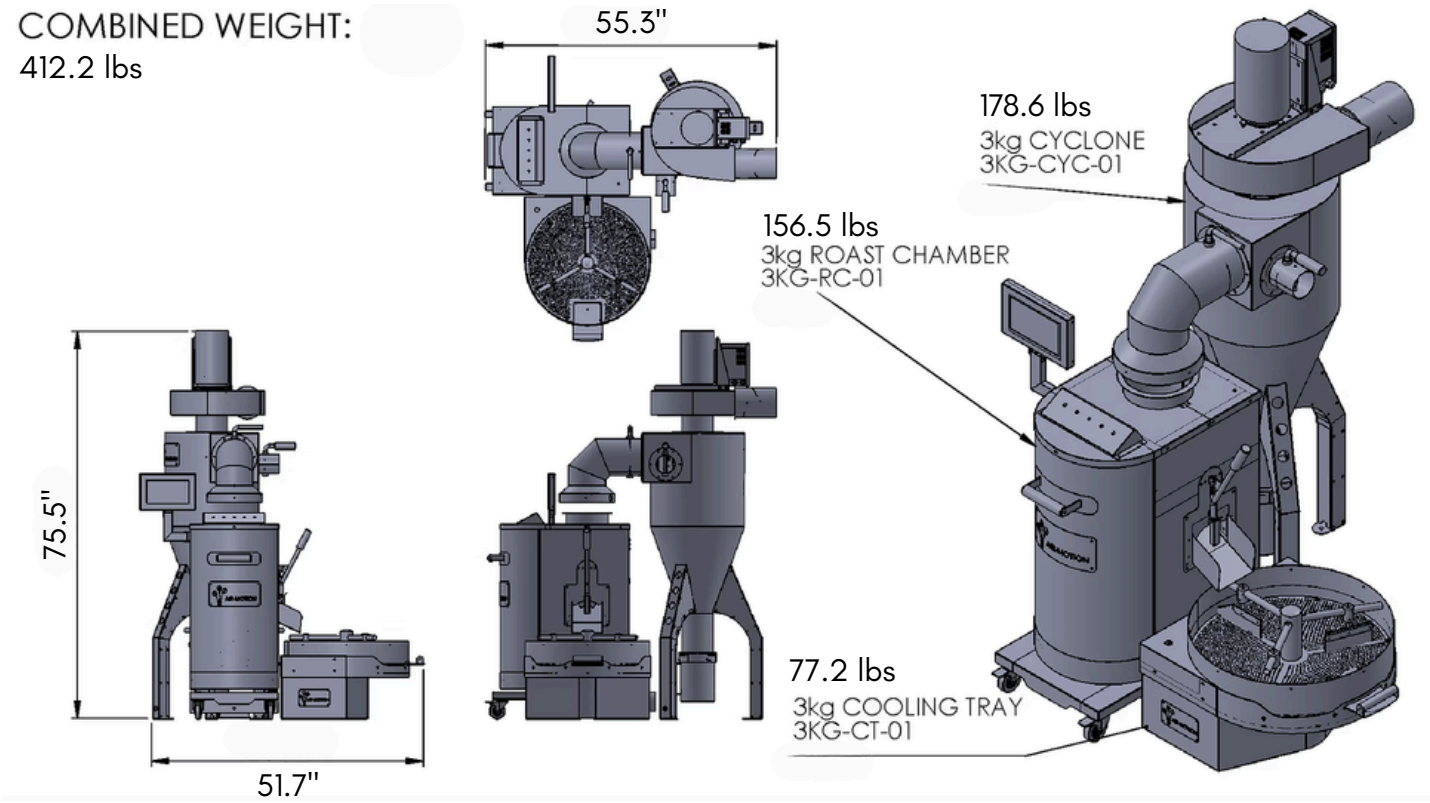
REQUIRED CLEARANCES

Position roaster at least 24" from walls or other equipment, and allow for at least 48" in front of roaster for user operation.

AIR-MOTION 3 ROASTER LAYOUT

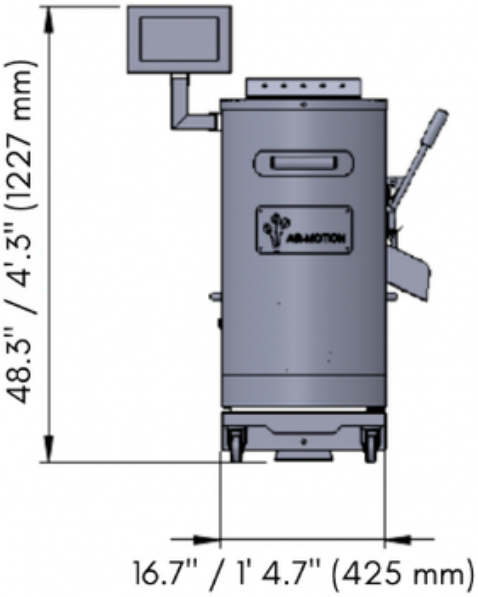
See next 4 pages for 3kg AMR roast chamber, cooler tray, and cyclone footprint, weight, layout, and dimensions.

AIR-MOTION 3: FOOTPRINT

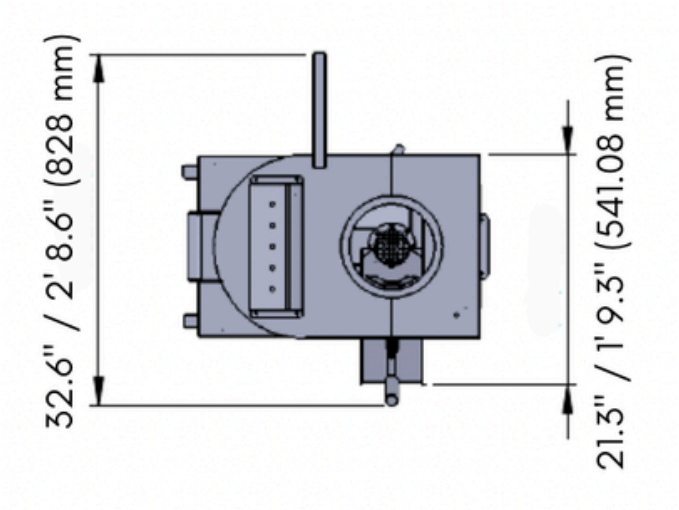


AIR-MOTION 3: ROAST CHAMBER

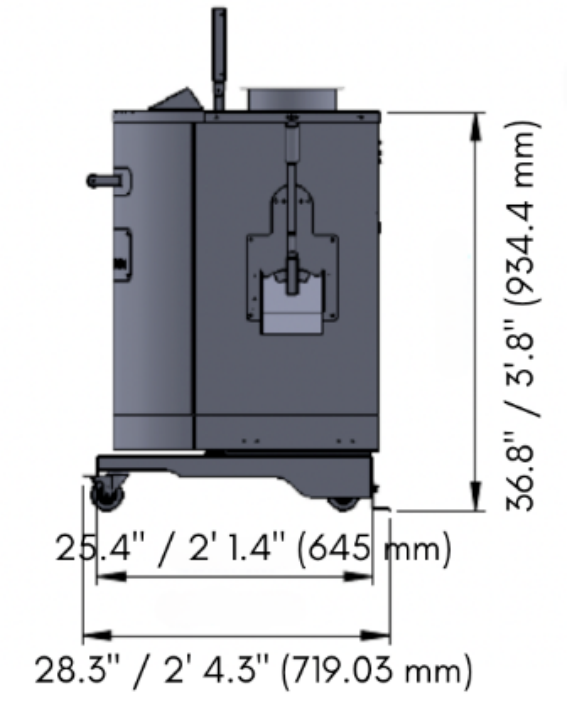
WEIGHT: 156.5 lbs (71 kg)
NOTE: The AMR 3 roaster comes on casters to allow for easy positioning and cleaning.
Below measurements are provided in inches, feet, and millimeters (mm).



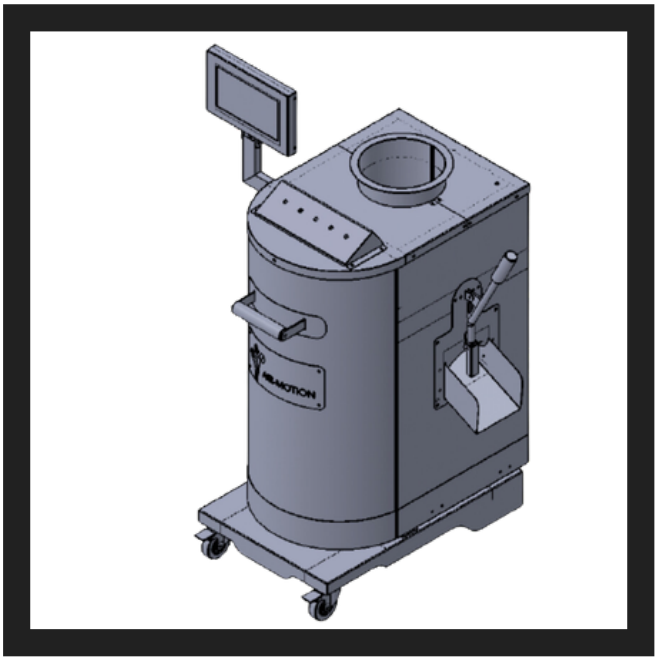
FRONT VIEW



TOP VIEW

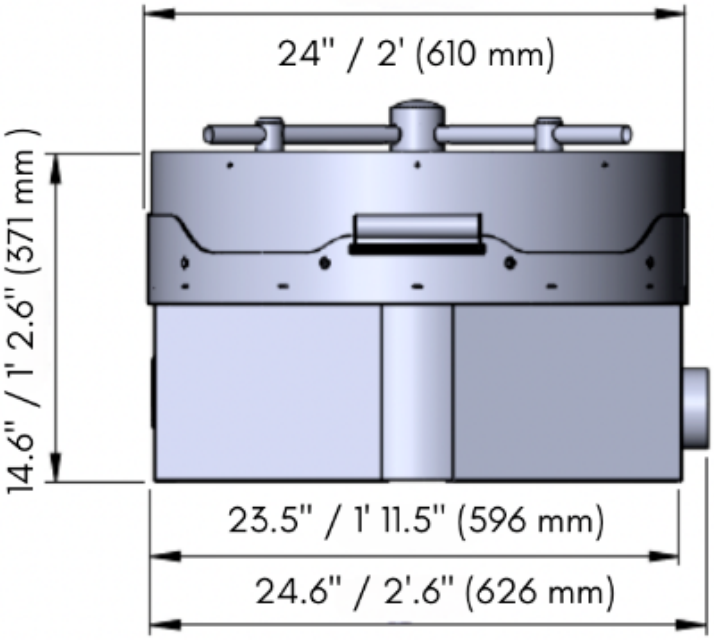


SIDE VIEW

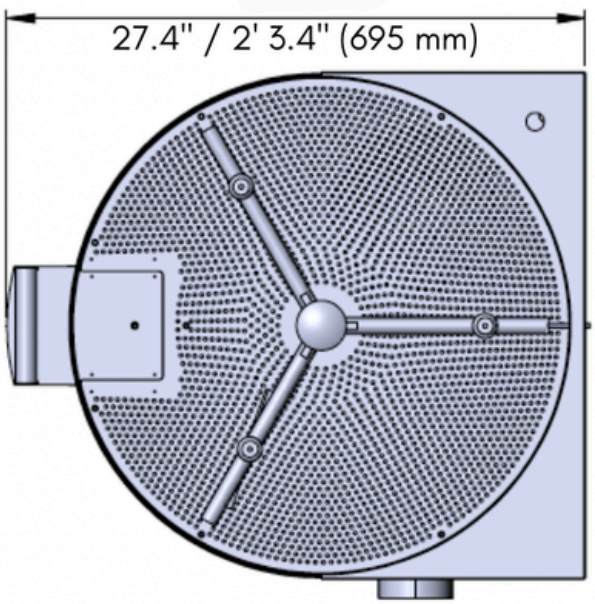


AIR-MOTION 3: COOLER TRAY

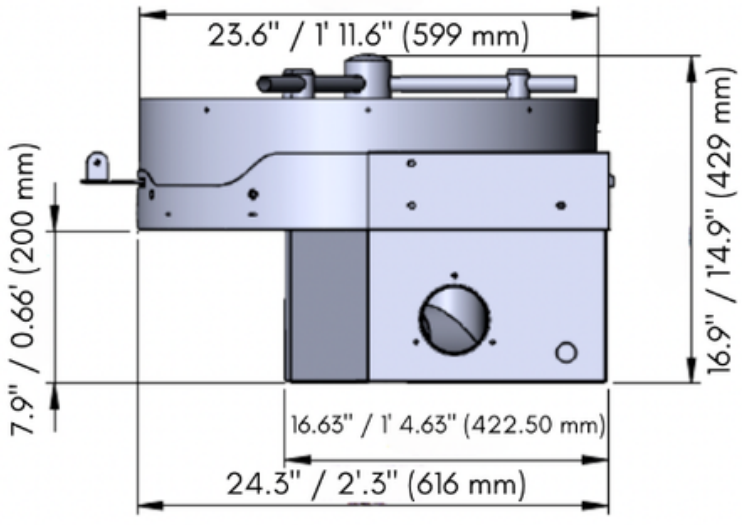
WEIGHT: 77.2 lbs (35 kg)
Below measurements are provided in inches, feet, and millimeters (mm).



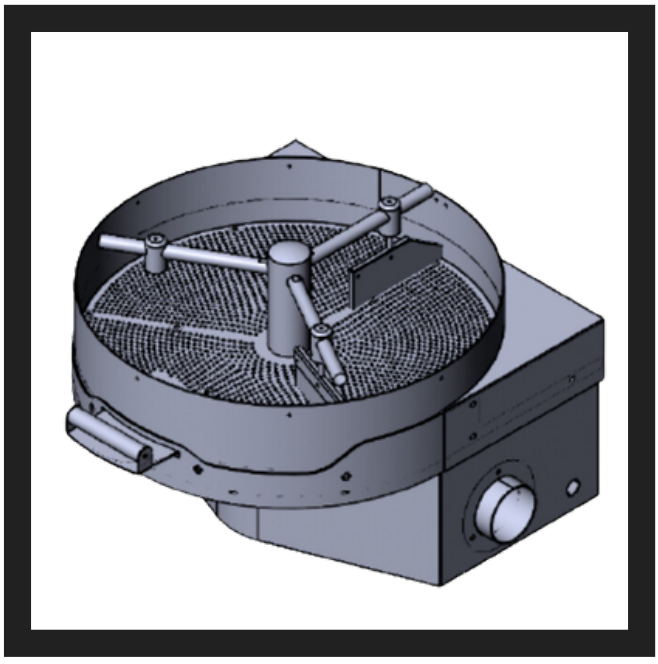
FRONT VIEW



TOP VIEW

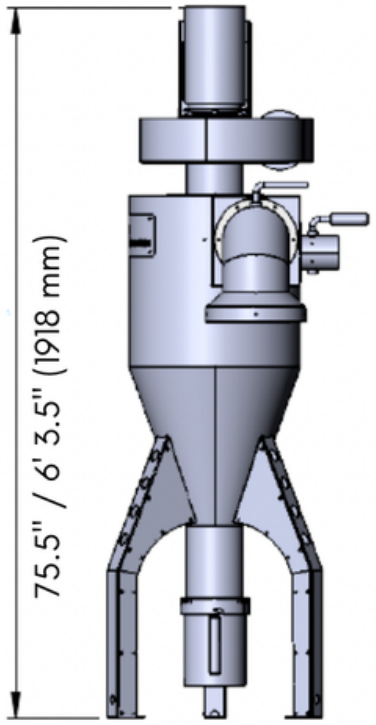


SIDE VIEW

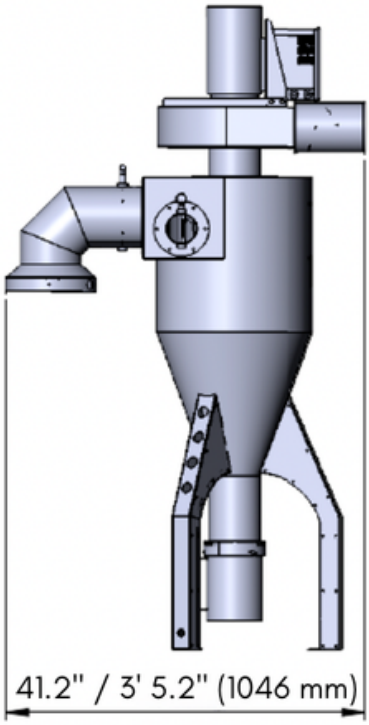


AIR-MOTION 3: CYCLONE

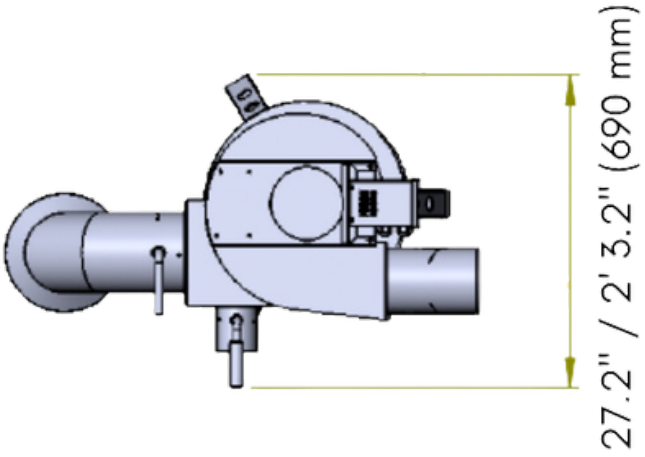
WEIGHT: 81 lbs (178.5 kg)
Below measurements are provided in inches, feet, and millimeters (mm).



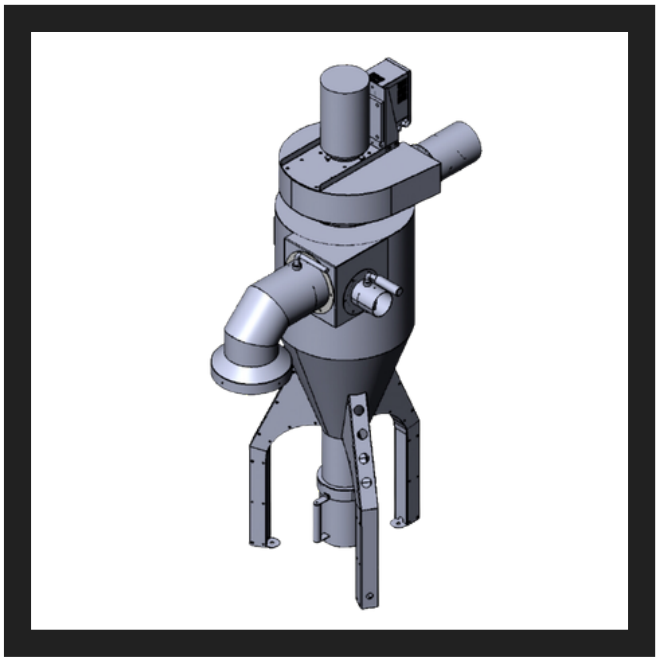
FRONT VIEW



SIDE VIEW



TOP VIEW




Cyclone Motor
And Fan
Cyclone System
Removes Dust, Smoke & Chaff from Roast Chamber
Control Panel
With Operation Control Dials
Water Dousing System
Immediately Stops Roast Once Target Temp is Reached
Touchscreen Interface
Real-Time Information & Graphs
Work Light
Roast Chamber
OCR with Clear View
Cooling Tray Ducting
Assists with Rapid Cooling of Beans in Cooling Tray
Element Bank
Immediate Heat Response Electrical Element Bank
Roast Chamber Exit Chute
Blower Fans
Provides Clean Fresh Heated Air Into The Roast Chamber
Cooling Tray
Assists with the Rapid Cooling of Beans
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