AIR-MOTION 12 QUICK SPECIFICATIONS



AIR-MOTION 12

Overview:

- Operator has total, full-variation control of convection and conduction heat transfer via a patented "Open Chamber Roasting" 12 kg air-roasting chamber.
- All electric. No fuel required.
- Extremely low emissions. Environmentally smart.
- Clean, consistent roast every time.

CAPACITY/OUTPUT

Batch Size: Max 12 kg roasting capacity (26 lbs of green beans)

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

Output: Max 100 lbs/hour; 800 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

3-Phase: 208v // 100 amps -OR- 480v // 42 amps

Power: **Consumed:** 33.4 kW **Supply**: 42 kVA

COMPONENTS

Air Flow: High-efficiency 4 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

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

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AIR-MOTION ROASTERS™ USA

www.air-motionroastersusa.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	275.6 LBS (125 KG)	32.3″ L x 35.5″ W x 53.2″ H (2.7' L x 2.9' W x 4.4' H)
Cyclone	275.6 LBS (125 KG)	56.1″ L x 31.5″ W x 85.4″ H (4.7' L x 2.6' W x 7.1' H)
Cooling Tray	101.4 LBS (46 KG)	35.9″ L x 33.1″ W x 15.7″ H (2.9' L x 2.8' W x 1.3' H)
TOTAL	**652.6 LBS (296 KG)**	

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

CRATE	CRATED WEIGHT	CRATE DIMENSIONS (L x W x H)
Crate #1	See note below.	89" L x 59" W x 43" H (7.4' L x 4.9' W x 3.6' H)
Crate #2	See note below.	43" L x 33" W x 56" H (3.6' L x 2.75' W x 4.7' H)
TOTAL	**1,091 LBS (495 KG)**	

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

DIMENSIONS: **AIR-MOTION 12** FOOTPRINT

FOOTPRINT: 73.4" L x 68" W x 85.4" H
CLEARANCE: 31.5" L x 31.5" W x 20" H
ROASTER HEIGHT: 85.4"
MINIMUM CEILING HEIGHT: 91"

AIR-MOTION 12 CYCLONE VENTING DIAMETER

Exit Pipe Diameter: 247 mm
Outside Diameter of aluminum flex pipe: 250 mm (3mm wall thickness)
Purchase ducting from **Nordfab** or **Selkirk**.

AIR-MOTION 12 WATER SPECIFICATIONS

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

MAINTENANCE

- Emptying the Chaff Collection Bucket, depending on the frequency of roasting and type of bean (some have more chaff than others).
- Wiping of the Roast Chamber with a wet cloth after completion of roasting session.
- Periodic wiping out of cyclone hood that covers the Roast Chamber, based on use frequency.
- Bi-annual checks of heating element and agitator bolt tightness.
- Annual checking of cyclone residue build-up inside the exhaust exit (based on frequency of roasting, roast profiles, and type of beans).

REPLACEMENT PARTS (IF NEEDED)

The Air-Motion Roaster has been designed for "plug-and-play" servicing, utilizing high-quality components engineered and field-tested for long-term reliability. With proper roasting procedures and maintenance, the system is built to deliver exceptional performance with minimal interruptions.

WARRANTY

AMR provides a 2-year warranty on all machine parts. Contact Air-Motion Roasters USA for required parts or service.

DECIBEL

85 dB

EMISSION

Emission testing report included in User Manual.

CERTIFICATION

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

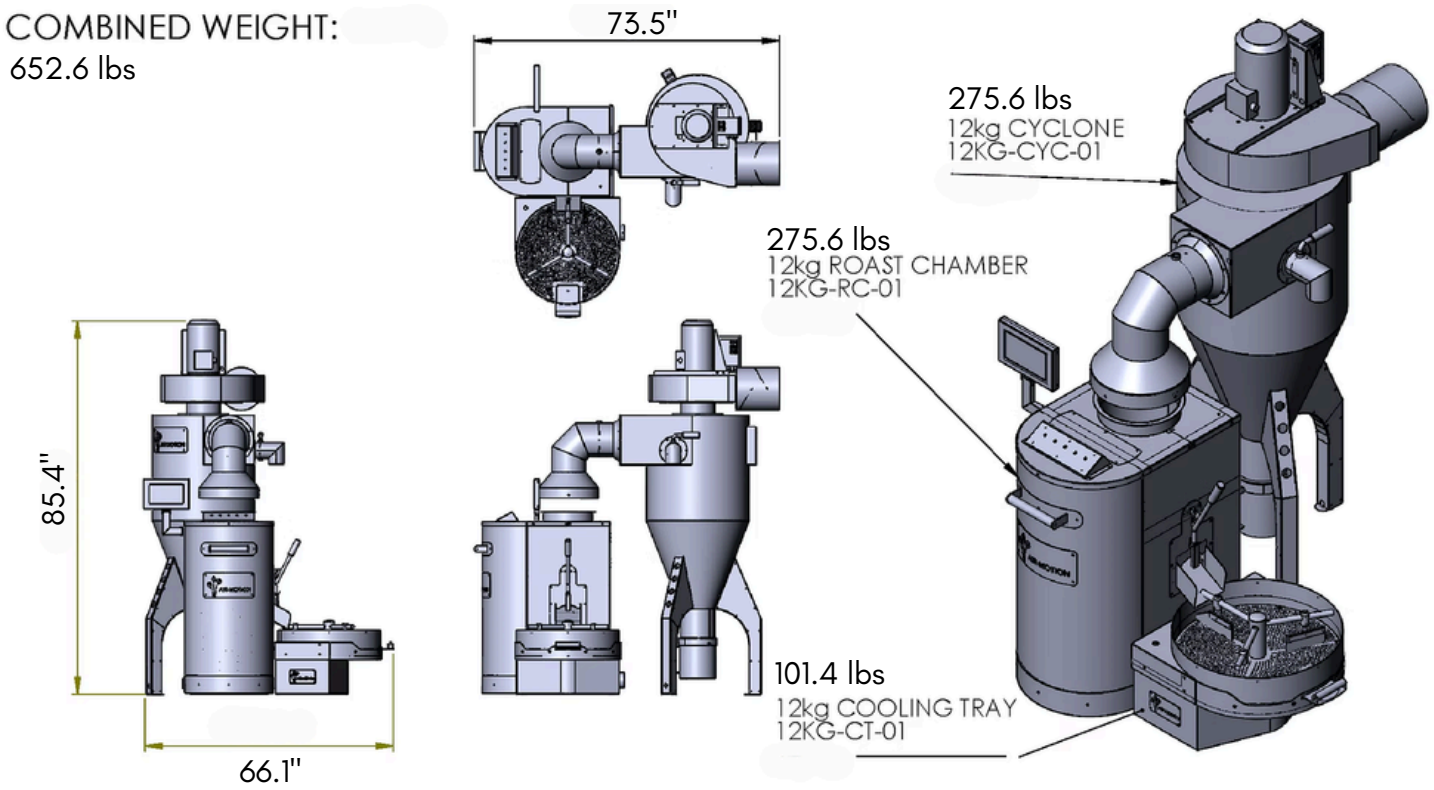
REQUIRED

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 12 ROASTER LAYOUT

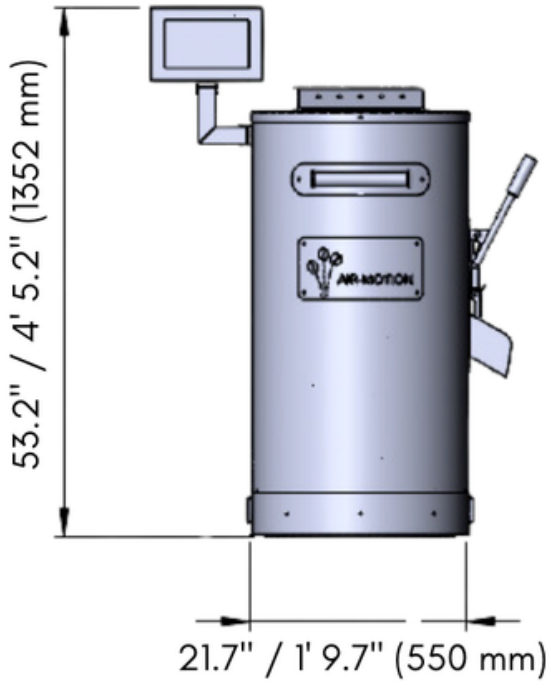
See next 4 pages for 12kg AMR roast chamber, cooler tray, and cyclone footprint, weight, layout, and dimensions.

AIR-MOTION 12: FOOTPRINT

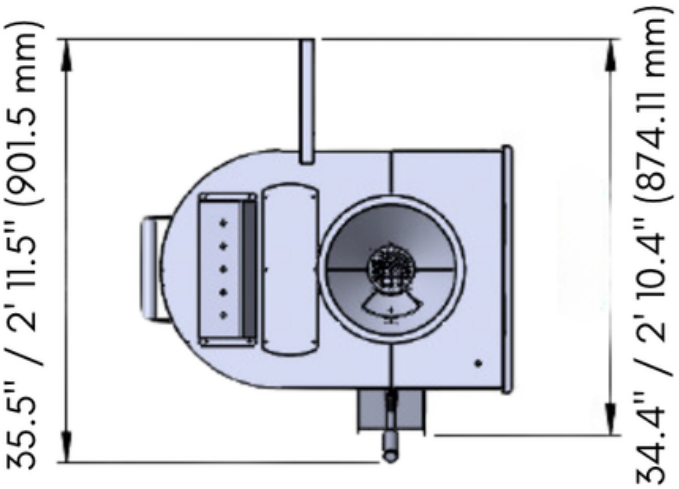


AIR-MOTION 12: ROAST CHAMBER

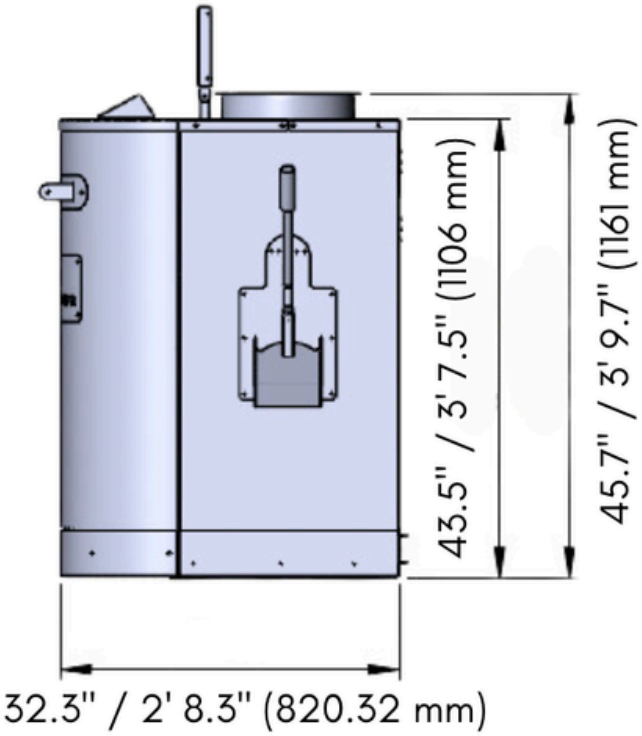
WEIGHT: 175.6 lbs (125 kg)
Below measurements are provided in inches, feet, and millimeters (mm).



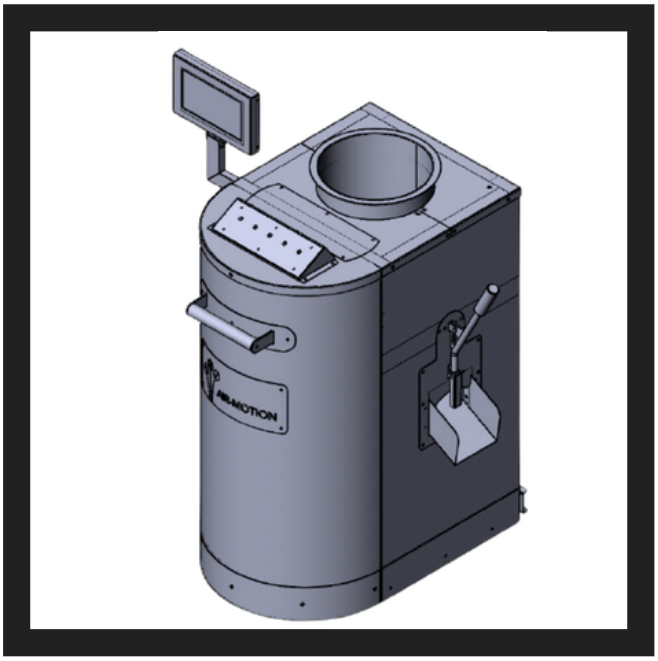
FRONT VIEW



TOP VIEW

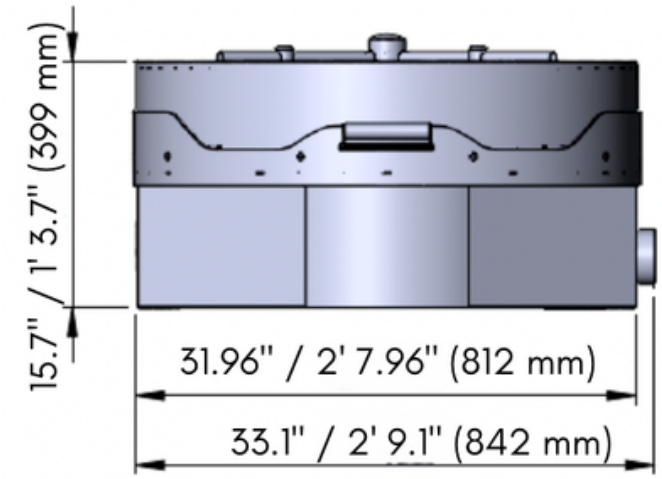


SIDE VIEW

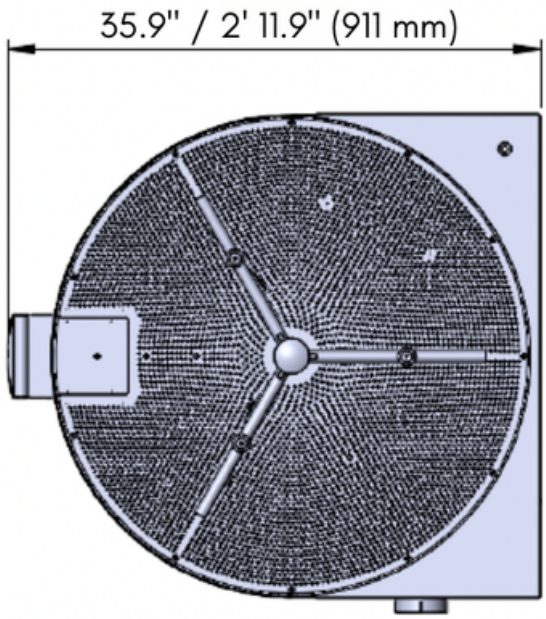


AIR-MOTION 12: COOLER TRAY

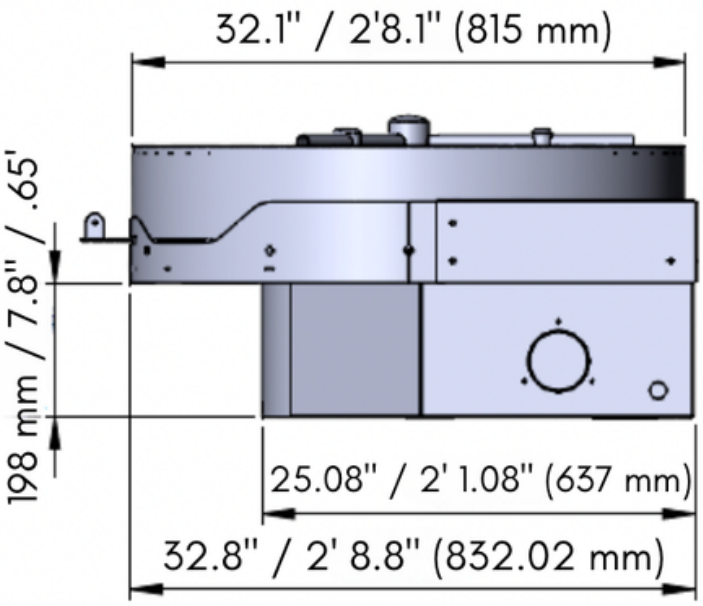
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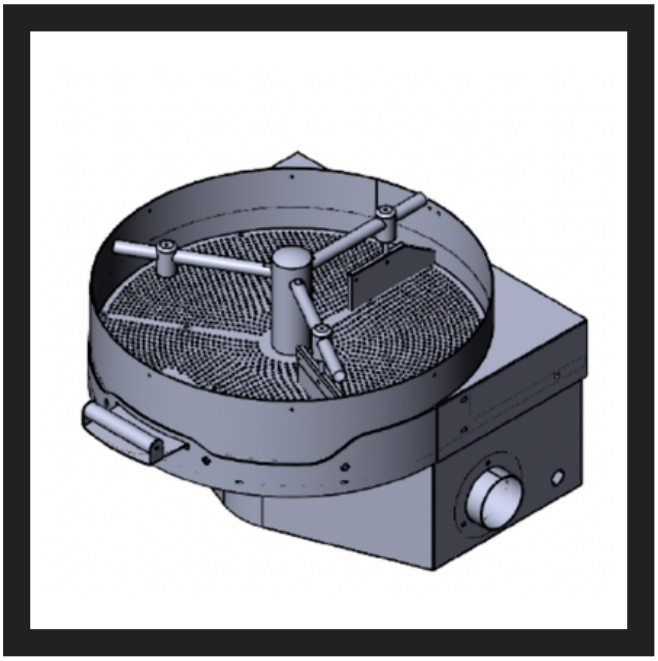
FRONT VIEW



TOP VIEW

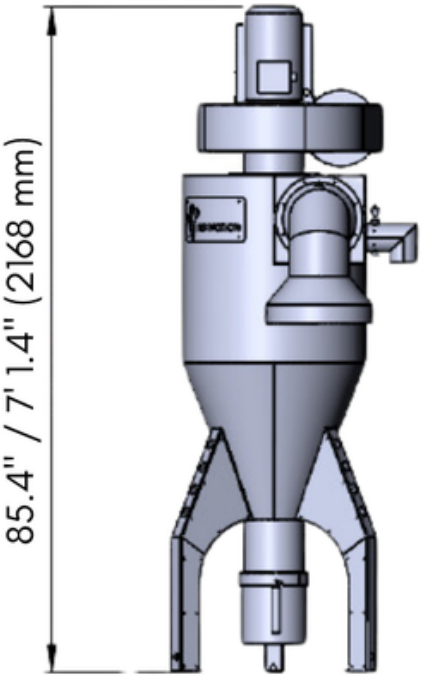


SIDE VIEW

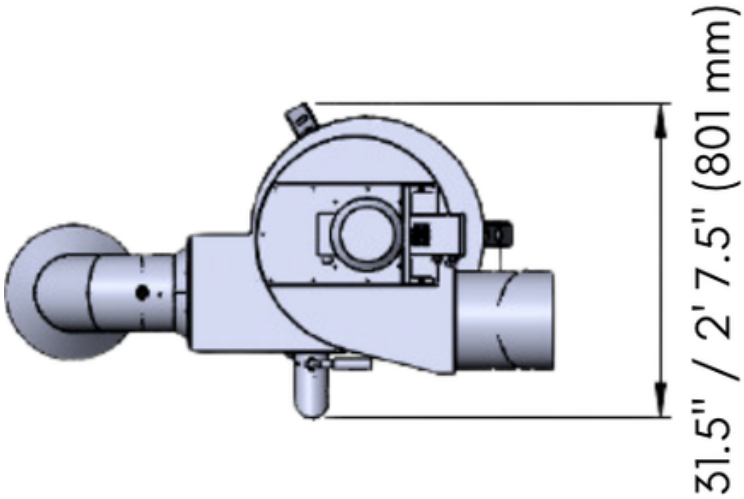


AIR-MOTION 12: CYCLONE

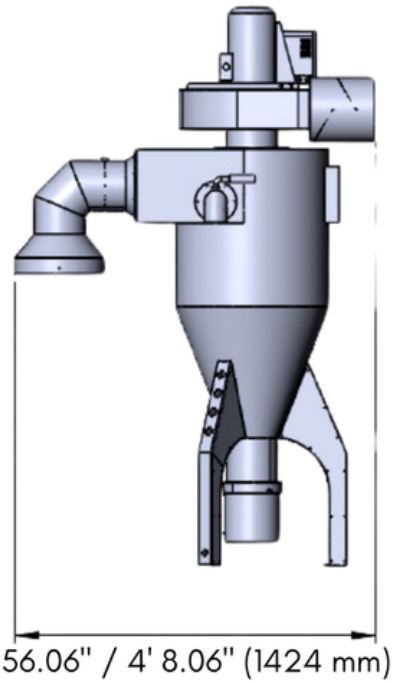
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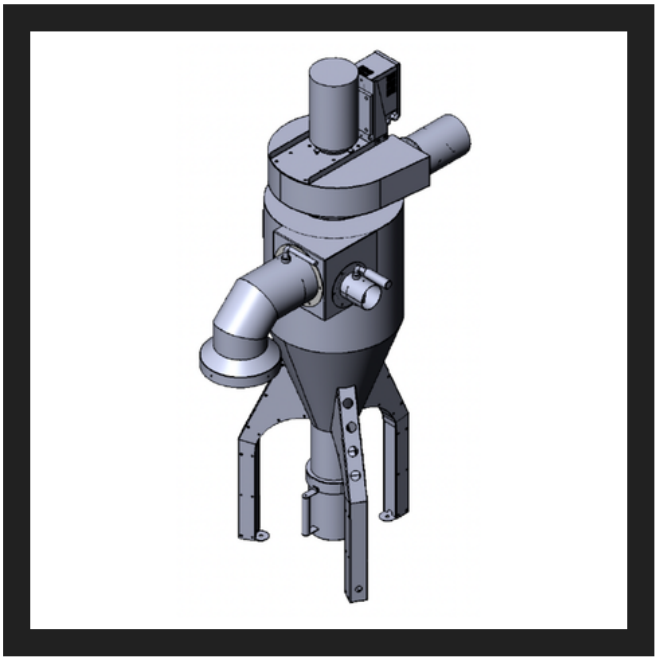
FRONT VIEW



TOP VIEW

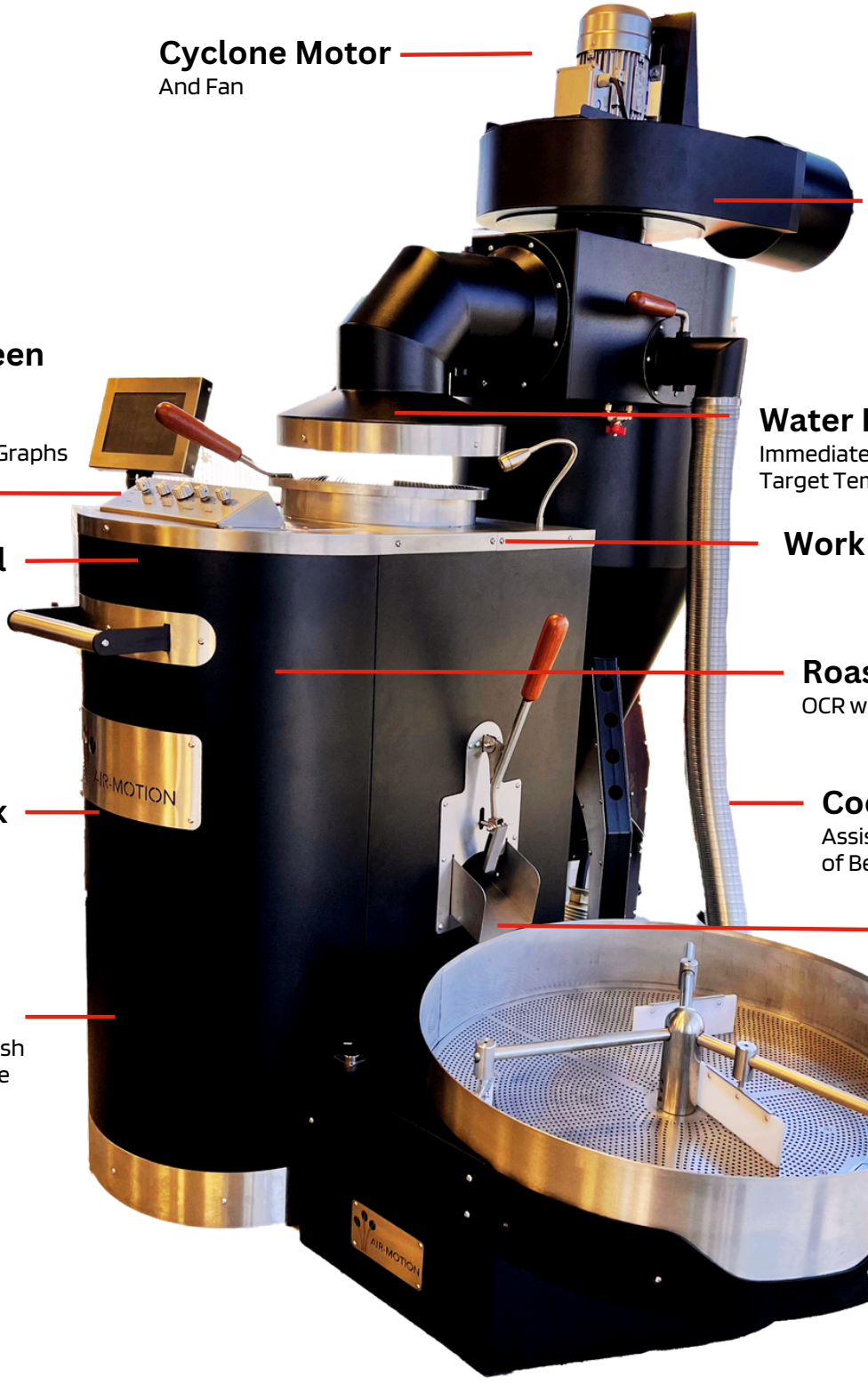


SIDE VIEW



AIR-MOTION ROASTERS™ USA

AIR-MOTION 12



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

Roast Chamber Exit Chute

Blower Fans
Provides Clean Fresh Heated Air Into The Roast Chamber

Cooling Tray
Assists with the Rapid Cooling of Beans