



The 250-Kilo Millennium Coffee Roaster

Patent Pending

American Made, Hand Built Quality



SPECIFICATIONS

250 Kilo Model (540lb) Coffee Roaster. Four roasts per hour. Designed for easy operation, low maintenance, and a long lifetime. Your choice of several standard colors, trim types and finishes. Drum liner and baffles are stainless.

Recirculates heat from the afterburner with a new improved and robust design devised to save energy! Includes smoke removal with new heat controls to allow for operation much like a shop roaster! Removes most all Cooler smoke.

Easy to operate and to train profiles with upgradeable features including wireless communication, Data logging and PLC.

ULc-508a listed controls.

Pipe Dimensions[2]: Please check for final build!

- Afterburner: 24" ■ Air inlet: 18"
- Heat dump: 18" ■ Cooler cyclone: 18"
- Cooler fan 12,000 cfm ■ Drum Fan 5000 Cfm

Roaster Dimensions[1]: 350" x 155" x 180" (LxWxH)

[1] Allow 18" clearance minimum for service. Dim's are estimated.

[2] Use Class A type positive pressure piping

[3] **Special note for Propane or bottled gas.** it is highly recommended for your safety that you purchase a quality propane regulator from a Professional source. You must have the correct regulator for the type of supply that you are connecting the roaster to. Changing supply type can or not having the regulator set to the pressure needs of the roaster or the source can be safety hazard and also damage the roaster. If you have needs for regulator please contact one of our Engineering staff for the correct one.

- 250 kiloMill Gas 3-Phase / 208V /
- 250 kiloMill Gas 3-Phase / 480 V /

NEW FOR 2025! Stainless cooler, magnehelic gauges for air flow and gas pressure, digital environmental air temp gauge, and air dampener control at NO CHARGE. Recirculates clean heat.

FRAME

- Heavy-duty stainless steel drum, Stainless cooler and screen.
- Double insulated housings. Roaster Body is never HOT.
- Easy to service roaster fan and separate fan for cooler
- Industrial gear drives for smooth operation of drum and cooler stirrer, with no bulky belts or noisy chains.
- Equipped with heavy duty direct drive steel-cooling fan.
- Heavy-duty motors with UL 508-A approved industrial control system and motors, adjustable overloads and contactors.
- Adjustable legs for ease of movement and cleaning
- Easy to adjust housing for the main drum bearing in designed to keep the bearing cooler and lubricated
- Grooved faceplate to seal drum for less product loss
- Water jet and precision milled steel parts made in-house
- Afterburner heat recirculation, with Profile controls

OPERATION

- 24 volt operator controls for safe operation. Low Temp on Body.
- Even and accurate heat controls;
- Full Ratio Control of power burners for even heating
- Free Standing cyclonic chaff collector. Chaff collector for cooler
- Standard lighted push button on-off switches, motor starters and overloads with fault protection.
- Multiple gas gauges provided for incoming gas pressure and outgoing gauge at gate valve to adjust burner output.
- Touch Screen Profiler has programmable and digital control
- All models include digital bean probe with controller and alarm and environment temp gauge
- **PLC Controls** will allow more information to be picked up on condition of many of the drives and motor relays on the Roaster, New Graphic Touch Screen interface

US Roaster Corp

1530 West Main Street ■ Oklahoma City, OK 73106 ■ Phone: 405.232.1223
 Fax: 405.232.1255 ■ Email: dan@roastersexchange.com



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American Made, Hand Built Quality**Model**

- 250-Kilo Touchscreen Model 10" color with 999 recipe
Solid Drum with Recirculation and afterburner
Burns Drum and Cooler Smoke!!! Price \$599,500
With Destoner and Loading table add Price \$44,100

Automation Options

- Semi-automation (automatic roaster door and auto profile start)
- Full automation (door control system and stack light system)
- Large PLC memory for 999 profiles
- Wireless touchscreen to connect to iPhone/iPad
- Air gates on cooler discharge and green bean hopper

Aesthetic Options

- Polished stainless cooler
- Smooth or dimensional stainless or hammered copper drum wrap
- Dimensional patterned stainless drum wrap
- Hammered copper cooler wrap

Optional Items

- Green Cleaners
- Roller Grinders
- Conveyance systems
- Multi head Silos
- Blending silos and distribution systems
- Green , Whole bean and Ground storage
- Mixers for Whole Bean and Ground.
-

Aesthetic Options (continued)

- Pin striping
- Two tone paint
- Clear coat over paint with metal flake
- Chrome bean chute
- Chrome face plate

Operational Options

- NC Maintenance hour meter
- NC Automatic quenching for drum or cyclone
- NC Bean light
- NC Install extra bean thermocouple for customers data logger
- NC Phidget with USB connection and two thermocouples installed
- Flow meter on water quenching
- Cooler Stirrer Speed
- Cleaning kit
- NC Roaster controls on control head
- NC Magnet in cooler discharge
- Eclipse or Maxon Power Burner Unit

About Us. The U.S. Roaster Corp. is famous for producing the world's finest roasters that create the best roasted coffee. Partnering with specialty coffee roast masters world-wide we have developed a roaster of superior design, unmatched quality, great reliability, and ease of use. Our Millennium line of roasters provide the roast master with unlimited profile capabilities and unparalleled roast quality. By the second crack you will know why the "Quality of the Roast" comes first at U.S. Roaster Corp.

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300K LAYOUT 120518.p

file:///C:/Users/Dan/Pictures/Sample%20Pictures/NewRoasters/300%20kilo/300%20kilo%20Layout%20072517/300K%20LAYOUT%20120518.pdf

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Technical drawing showing the layout of a 300K roaster. The drawing includes a top view with dimensions: 364.59 (total width), 11.75 (top offset), 136.32 (burner offset), 199.56 (total height), 165.08 (main body height), 36 9/16" (control offset), 36 13/16" (VFD offset), and 1.50" GAS - IN. Labels include CONTROL, VFD, AIR & WATER, and Ø18".

Isometric view of the roaster assembly.

Side view of the roaster with dimensions: 59.85 (top offset), 165.28 (total height), 112.85 (main body width), 86.53 (right offset), and 199.56 (total width).

Another side view with dimensions: 194.50 (total height), 53.37 (bottom offset), 100.23 (main body width), 68" (middle offset), 196.35 (right offset), and 364.59 (total width). Labels include Ø16", Ø14", and Ø18".

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300K LAYOUT 120518.p | Pipe Dampeners.pdf | 240-300K ROASTER

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Technical drawing showing the assembly of a 240-300K roaster. The drawing is divided into sections 1, 2, 3, and 4. Labels include: 1.5M BURNER, GAS HOOKUP, BURNER, 2.5M BURNER, GAS HOOKUP, Ø30, Ø12, AFTER BURNER, Ø18, WATER HOOKUP, CYCLONE, WATER HOOKUP, Ø18, COOLER CYCLONE, ELECTRICAL HOOKUP, ROASTER BODY, AIR HOOKUP, COOLER FAN, and COOLER. A vertical dimension of 371.0625 is shown on the left, and a horizontal dimension of 184" is shown at the bottom.

BURNERS-
 1.5 MILLION BTU TO BURNER
 2.5 MILLION BTU TO AFTER BURNER
 GAS SHOULD BE LOW PRESSURE

WATER-
 3/8" 5 GALLON PER MINUTE FLOW AT 60PSI

AIR-
 2 CUBIC FEET PER MINUTE AT 90PSI

ELECTRICAL-
 RECOMMEND 208 OR 240 THREE PHASE
 100 AMPS WITH A DEDICATED NEUTRAL

ALL TOTALS ARE AN APPROXIMATE
 TOTAL WEIGHT- 22,000 LBS
 AFTER BURNER WEIGHT- 2400 LBS
 CYCLONE WEIGHT- 500 LBS
 COOLER CYCLONE WEIGHT- 500 LBS
 BURNER TUBE WEIGHT- 1500 LBS
 ROASTER BODY AND FRAME WEIGHT- 3000 LBS
 COOLER WEIGHT- 2000 LBS
 COOLER FAN- 750 LBS

UNLESS OTHERWISE SPECIFIED:	NAME	DATE
DIMENSIONS ARE IN INCHES	DESIGN	05/18/17
TOLERANCES	CHECKED	
FINISHES	ENG APPR.	
PRODUCTION	ENG APPR.	
FIELD	SA	
PREPARED BY	COMMENTS:	

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