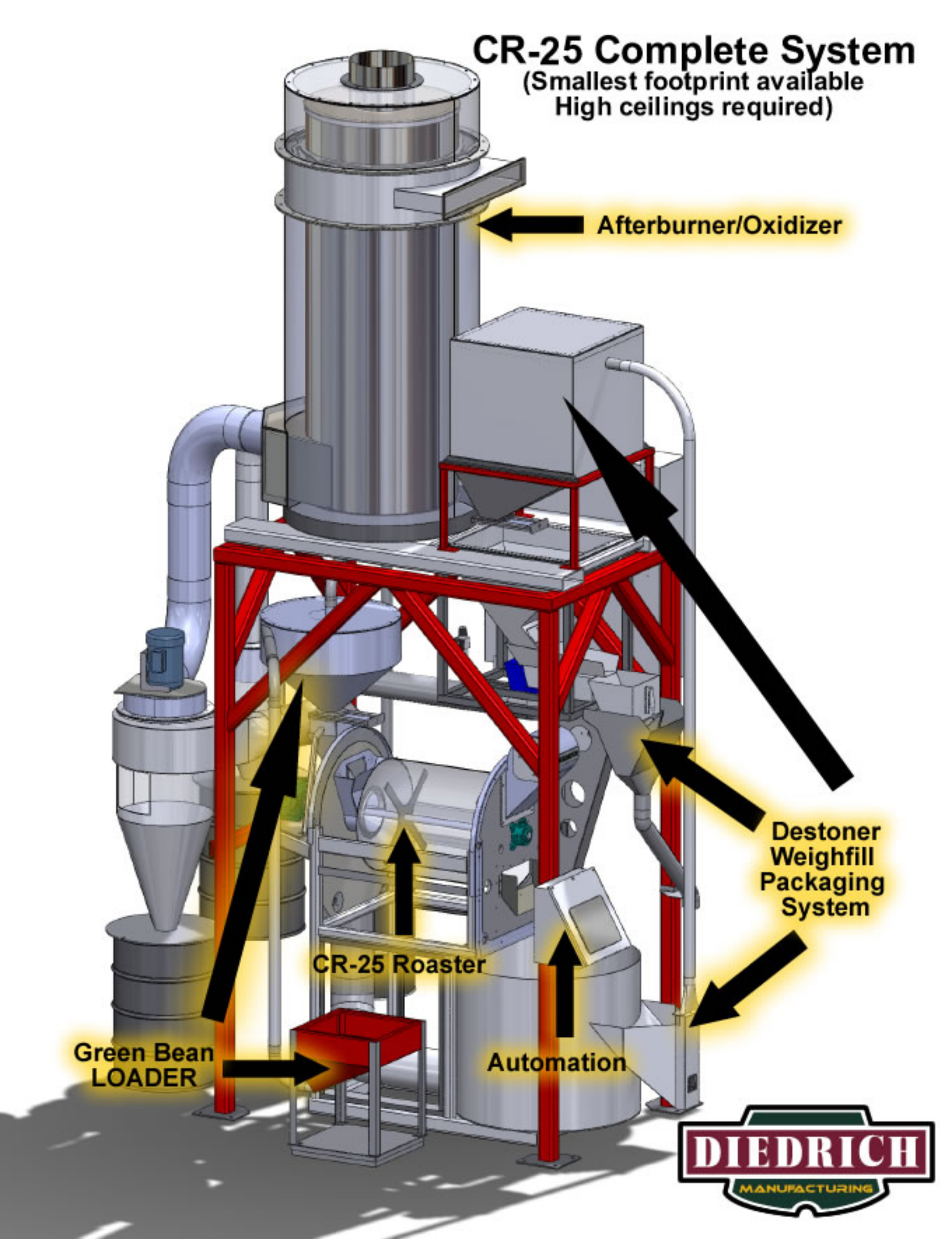
CR-25 Complete System
(Smallest footprint available
High ceilings required)
Afterburner/Oxidizer
Destoner
Weighfill
Packaging
System
CR-25 Roaster
Green Bean
LOADER
Automation
DIEDRICH
MANUFACTURING

CR-25 Roasting System Requirements

1. Electrical: 120/208V, 3 phase w/neutral AND ground, @ 30 amp power. Electrical disconnect located on back wall.

2. Exhaust: 12" Diameter Positive Pressure Grease Vent Ducting with a 1400°F continuous operation rating. China cap made of Stainless Steel must be installed at outside termination of ducting and must be NON-RESTRICTIVE and capable of handling the CFM and the exhaust. Centerline of exhaust provided on Diedrich overview drawing

3. TOTAL Gas Flow: 900,000 BTU on Natural Gas.

4. Incoming Gas Pressure at the Roasting System: Gas system must be a dedicated line able to supply 900,000 BTUs at a minimum of 2psi.

5. Gas Piping: Must be installed according to local codes and be of sufficient size to deliver 900,000 BTU at a minimum pressure of 2psi, see Note-2.

6. Water: 40 – 70psi. Customer supplied water filter

7. Air Pressure: minimum of 70psi. Our inlet airlines are 1/4" NPT. One outlet located on back wall.

8. Vent Piping for gas regulators: Installation per State or locale codes. Maximum of 3 regulators on Diedrich Roasting System.

9. **Ethernet/VPN access at Roasting System**

Note 1. For ease of installation it is recommended all utilities drop from the ceiling, preferably from the isle wall.

Note 2. The gas supply line must be sized to accommodate the total length of the run and must be sized to accommodate any required elbows; this dictates that the line must be no less than the Roaster's inlet size. If needed, use a reducer fitting. All pipe used for the installation must be at least Schedule 40 pipe. Sealant on pipe joints must be resistant to Liquid Propane.

Last Updated: 01/15/10

CR-25 TECHNICAL SPECIFICATIONS

Roaster	
ROASTER- VOLTAGE / 3 PHASE POWER	120/208 volts w/neutral
ROASTER- *Approx. AMPERAGE @ 208 volts	30 Amps 6.24 kW
ROASTER- MAXIMUM BTU	150,000 BTU
ROASTER- GAS PRESSURE	Min. 2 psi
ROASTER- CAPACITY PER BATCH	25 Kilo / 55lbs.
ROASTER- AIR PRESSURE	70 psi
ROASTER - GAS PIPE	Performed by Diedrich if on Diedrich Frame, else 3/4 inch / 19.05 mm NPT
Packaging System	
AIR PRESSURE	70 psi
VOLTAGE / SINGLE PHASE POWER	120 volts
AMPERAGE	1 Amp .12 kW
CHUTE DISCHARGE HEIGHT	Approx. 48 inches 121.92 cm
Destoner	
AIR PRESSURE	70 psi
VOLTAGE / SINGLE PHASE POWER	120 volts
AMPERAGE	14 Amps 1.68 kW
Loader	
VOLTAGE / SINGLE PHASE POWER	120 volts
AMPERAGE	14 Amps 1.68 kW
CATALYTIC Afterburner/Oxidizer	
VOLTAGE / 3 PHASE POWER	208 volts
*Approx. AMPERAGE @ 208 volts	4 Amp .832 kW
COMBINED AIR FLOW (Roaster & Afterburner/Oxidizer)	1500 SCFM
MAXIMUM BTU	750,000 BTU / Hr.
GAS PRESSURE	Min. of 2 psi
AFTERBURNER/OXIDIZER HEIGHT	197 inches 500.38 cm
EXHAUST DIAMETER	12 inches 30.48 cm
EXHAUST TEMPERATURE	600°F-850°F 315.5°C-454.4°C
AFTERBURNER/OXIDIZER DIAMETER	36 inches 91.44 cm
AFTERBURNER/OXIDIZER – INLET PIPE DIAMETER	2 x 8 inches 2 x 20.32 cm
AFTERBURNER/OXIDIZER STAND	48 inches W x 72 inches L x 108 inches H 121.92 cm W x 182.88 cm L x 274.32 cm H
Total System Utility Requirements	
AIR PRESSURE	Min. 70 psi
COMBINED AIR FLOW (Roaster & Afterburner/Oxidizer)	1500 SCFM
ELECTRICAL 208v - 3 phase w/neutral AND ground	30 Amps 6.24 kW
GAS - BTU's	900,000 BTU's
GAS PRESSURE	Min. 2 psi
WATER PRESSURE	40-60 psi

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