



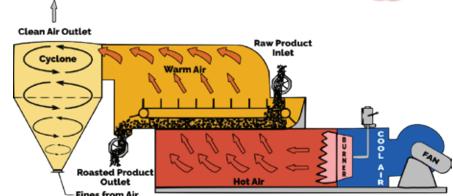
Why Roast/Cook Grains & Soybeans?

- Reduce mold and bacteria content
- ✓ Inactivate anti-nutritional factors
- Inactivate trypsin inhibitors
- Increase metabolizable energy
- Increase feed efficiency
- Increase palatability
- Increase nutrient availability
- Increase digestibility
- ✓ Improve feed aroma and flavor



Unique Concept in Roasting & Drying

The CalorMatic® was designed to perform a simple, practical, and economical thermal process, using natural gas and propane. It features a centrifugal fan that injects ambient air through a high-efficiency burner, which heats the air that is driven through the fluidized bed to suspend the product and achieves efficient heat exchange between air and the product to be dried or roasted.





From Waste To Feed

Using the CalorMatic®, eggshell is converted from a costly waste product to a sanitized, salmonella-free, mineral product.
Food and bakery waste is transformed into a premium feed ingredient rich in nutritional value. Dredged oyster shell is dried for further processing and packaging.

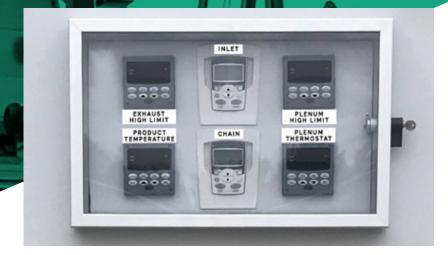
Biomass Applications

Utilizing our unique concept that eliminates direct contact with flame, the CalorMatic® removes moisture from biomass products. Applications have been seen in processing woodchips, rice hulls, and other flame-sensitive materials.

Put Our Tools to the Test

Here at Sweet Manufacturing, we believe in giving our customers peace of mind before purchasing our CalorMatic® machines. Using 3rd party labs to test the final product, we ensure accurate results for each test conducted!

CALORMATIC®





CONTROL PANEL OPTIONS

The Control Panel

AC Control Panel (AC)

This control panel option comes standard when purchasing a CalorMatic® unit and features simple on-site manual controls. This, combined with the enhanced safety shutdown features, delivers continued automation.

Programmable Logic Controller (PLC)

This control panel option streamlines your process with the ability to communicate with computers inside the plant. The PLC has a very fast scan time and possesses great computational capabilities, making troubleshooting easy and fast. Most importantly, training time is reduced due to the simplistic interface and ease of operation.

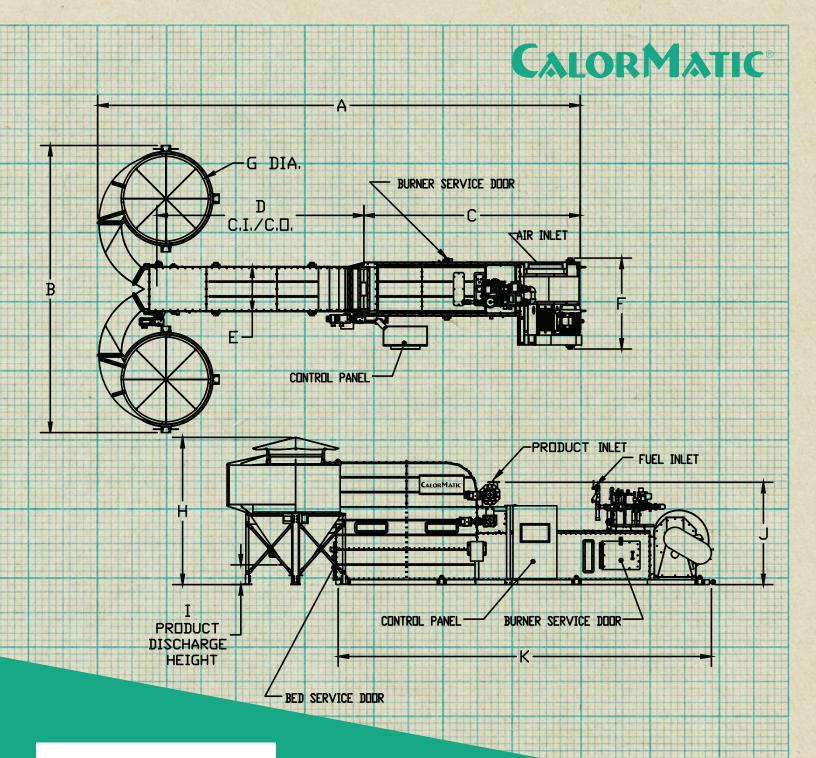
These options enable end users to diversify their machine so they can run a variety of materials and products with easy adjustments to speed, temperature, and airflow.

Specifications

Choose the Model to Best Suit Your Production Requirements

Sweet Manufacturing Company offers seven CalorMatic® models, ranging from 2-18 Tons Per Hour.

Model	Capacity TPH'	Fan Air Flow CFM	Motor HP	Fan RPM	Burner Size MMBTU/HR	Combustion BTU/HR	Natural Gas FT³/HR	Operating Temperature
Cardinal II	2 - 3	5,000	10	3,700	3.0	1,827,590	1,828	Min : 150 °F Max : 600°F
Blue Jay	3 - 5	7,500	15	3,650	4.0	2,749,690	2,750	Min : 150 °F Max : 600°F
Hawk	5 - 7	9,600	20	2,900	5.0	3,871,501	3,872	Min : 150 °F Max : 600°F
Eagle I	7 - 10	18,481	40	2,054	9.5	6,507,591	6,508	Min : 150 °F Max : 600°F
Eagle II	10 - 12	22,167	50	1,816	10.5	7,806,851	7,807	Min : 150 °F Max : 600°F
Eagle III	12 - 15	27,722	50	1,397	12.0	9,761,491	9,761	Min : 150 °F Max : 600°F
Eagle IV	15 - 18	33,259	75	1,552	14.0	11,712,062	11,712	Min : 150 °F Max : 600°F



Dimensions

Model	A	В	С	D	E	F	G	н	1	J	К
Cardinal II	25' - 11"	7' - 2"	10' - 1"	12' - 7"	1' - 8"	4' - 4"	4' - 1"	9' - 10"	2' - 1"	6' - 11"	19' - 5"
Blue Jay	29' - 10"	7' - 10"	12' - 2"	14' - 1"	1' - 8"	4' - 5"	5' - 4"	10' - 0"	1' - 8"	6' - 11"	22' - 11"
Hawk	26' - 7"	17' - 8"	12' - 2"	11' - 1"	3' - 0"	5' - 5"	5' - 4"	10' - 0"	1' - 8"	6' - 11"	20' - 0"
Eagle I	32' - 11"	19' - 4"	14' - 11"	14' - 1"	3' - 0"	6' - 2"	6' - 4"	9' - 11"	1' - 4"	6' - 11"	25' - 7"
Eagle II	35' - 8"	24' - 10"	15' - 4"	15' - 10"	3' - 0"	6' - 7"	7' - 4"	10' - 3"	1' - 4"	6' - 11"	27' - 10"
Eagle III	42' - 5"	25' - 6"	19' - 1"	18' - 10"	3' - 0"	7' - 10"	7' - 8"	10' - 3"	1' - 3"	6' - 11"	34' - 7"
Eagle IV	47' - 2"	26' - 2"	19' - 1"	23' - 7"	3' - 0"	7' - 10"	8' - 4"	10' - 3"	1' - 4"	6' - 11"	39' - 4"