

FDG 600 with 15-rack Chamber

Cooking and cooling of jerky products



OVERVIEW:

Nyle Systems LLC is pleased to propose an FDG 600 indirect gas-fired unit with chamber that will provide control of air temperature and humidity during cooking and cooling cycles for processing jerky products. The chamber will be capable of accepting 15 standard bakery racks that each measure approximately 21 inches wide by 26 inches long (racks are not included).

EQUIPMENT:

a. Indirect Gas-fired heating units:

- The indirect gas units (2 per machine) are fired on natural gas with total heat input of 800,000 Btu/hr.
- Temperature is controllable in the cooking chamber by thermocouple/PLC feedback to the burner units
- Maximum expected operating temperature will be approximately 220 F.
- Voltage is 460 V / 3 Ph / 60 Hz (to be confirmed with LVJC).
- Heat rejection from the chamber will be performed by exhausting air using an exhaust vent with automatic damper. Exhaust ductwork is not included.
- Each unit is an indirect-fired system (products of combustion do not enter the treatment space in the chamber).
- The heating units are supported above the chamber (see drawing).
- Heat exchangers are fabricated of stainless steel.
- A circulation fan will draw air through exchangers and into the cooking chamber. The blower is a centrifugal plug fan with 15 HP motor (direct drive).

b. Controls:

- Siemens PLC will monitor and control functions of system.
- Remote access capability.
- Siemens operator touch screen.
- Air humidity sensor and thermocouple are provided.
- Programmed for cooking and cooling cycles.
- Variable speed drive controller for circulation fan motor.

c. **Chamber:**

- Capacity of the chamber is 15 racks minimum arranged in a 3 by 5 configuration.
- Dimensions of the FDG 600 including chamber are approximately 25 feet long by 6.5 feet wide by 10.5 feet tall (see attached drawing).
- Modular construction.
- Floor is not included.
- Panels are insulated (4-inch nominal thickness). Interior wall is fabricated of stainless steel.
- Doors with hinges and latches on each end of the machine.
- Baffles for air distribution.
- Internal baffles are made of stainless steel.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

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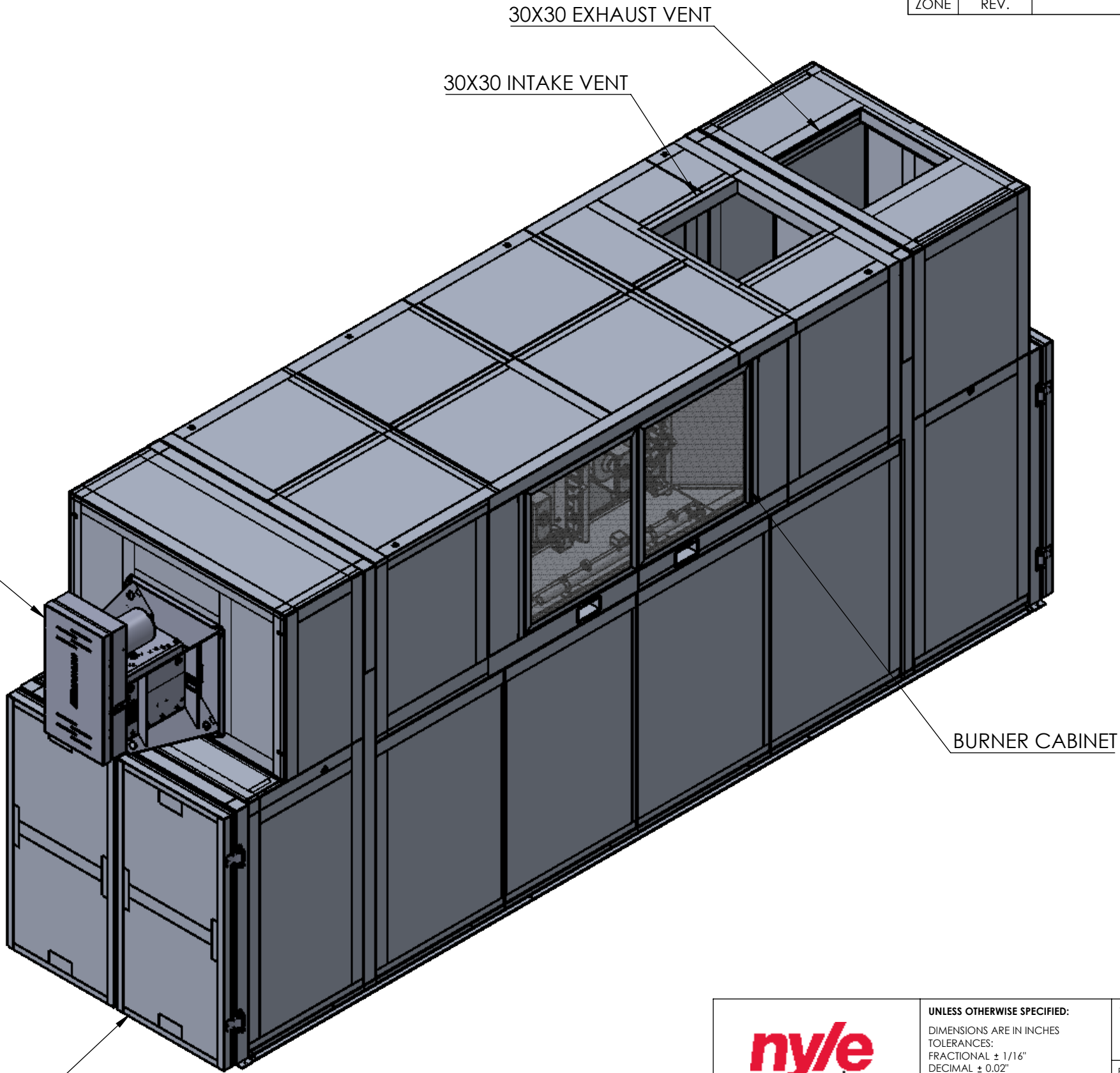
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	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16"$ DECIMAL $\pm 0.02"$ ANGULAR MACH $\pm 1/2^\circ$ ANGULAR BEND $\pm 1^\circ$		TITLE: FDG600, BCC		
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	PROPRIETARY AND CONFIDENTIAL: THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NYLE SYSTEMS LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NYLE SYSTEMS LLC IS PROHIBITED.		MATERIAL: MATERIAL <NOT SPECIFIED>		SHEET: 1 OF 3
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	EDITED		4/16/2020		WEIGHT (lbs): 7497.19

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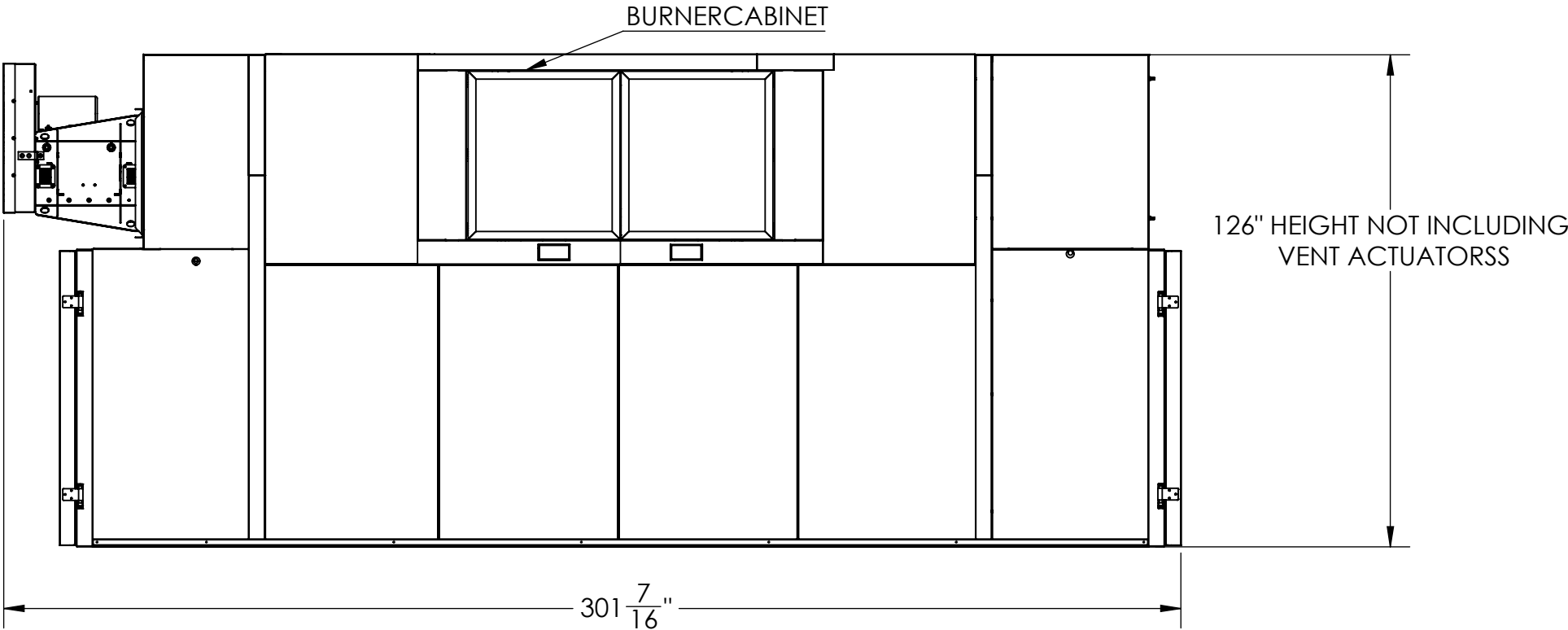
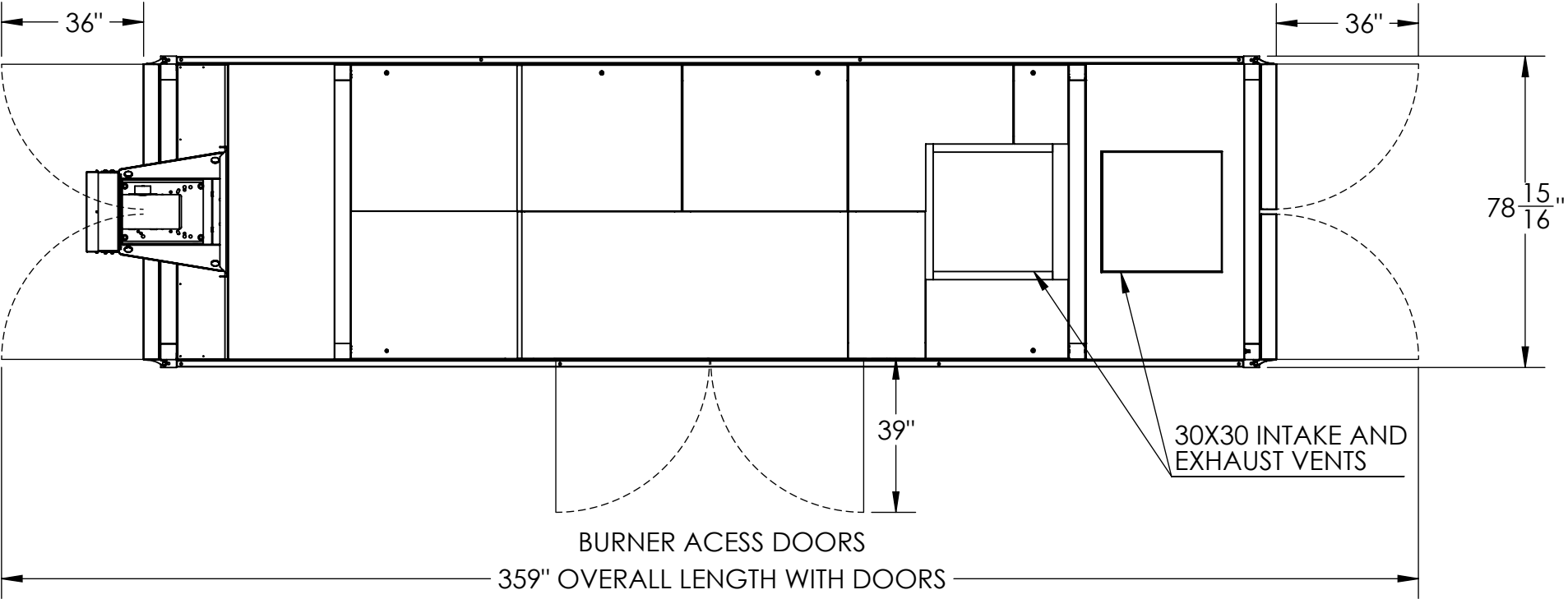
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DIMENSIONS FOR SINGLE UNIT



	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16" DECIMAL ± 0.02" ANGULAR MACH ± 1/2° ANGULAR BEND ± 1°		TITLE: FDG600, BCC		
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