



Evo® VentCore™ with Nieco Broiler

Electric Broiler Integrally Connected with a Ventless Recirculating Ventilation System

Model #: 10-0800-VCMV



Model 10-0800-VCMV

DESCRIPTION

The Evo VentCore™ with integrally attached Nieco Broiler MV74E and Ansul fire suppression system is an electrically controlled recirculating ventilation system that captures and processes cooking vapor returning clean air back to an occupied space. The ventilation system discharges clean filtered air under the unit for evenly dispersed airflow. The duct system is fully welded stainless steel and utilizes a 4-stage filtration system including washable stainless steel grease baffle filters, a cyclonic particulate separation filter, mesh particulate filters, and electrostatic precipitator filters. The Ansul fire suppression system is pre-engineered and factory installed with a dry contact fire alarm micro switch and cross-pattern nozzles that provide a continuous zone of fire protection.

SPECIFICATIONS

FILTRATION - Completely self-contained 4-stage filtration process reduces grease emissions below levels allowed in the EPA 202 test method complying to the UL710B Standard. The self-contained 4-stage filtration system uses all washable filters including stainless steel grease baffle filters, a cyclonic particulate separation filter, mesh particulate filters, and electrostatic precipitator filters. All filters are easily removable with the included 8mm hex key. Airflow sensors continually monitor airflow and grease removal while an interlock system will not allow the unit to operate if filters are missing or clogged.

FIRE PROTECTION - Factory installed Ansul R102 Fire Suppression system includes a liquid suppression tank, nitrogen cartridge, system control head, piping, flex cable, fusible link, nozzles and manual pull station. Manual pull is located on the chef side (front) of the unit. Fire protection system meets NFPA 96 and is tested to the UL300 Standard.

The Fire protection system must be fire-commissioned armed and certified by an Ansul Authorized Fire Contractor after installation and before first use. Fire commissioning of the Ansul system is the operator's responsibility.

EXHAUST AND AIR FLOW - Exhaust air is discharged to the bottom of the unit. A minimum of 70 cubic feet (CFM) of fresh air per minute is required both in and out of cooking area. Please consult your HVAC contractor.

COOKING APPLIANCE - Designed for high-capacity locations, the MV74E broils a variety of menu items and offers customers the charbroiled flavor and surface sear marks they desire with technology that combines radiant, reflective and convective heat to produce consistent results and reduce operating costs.

STANDARD FEATURES

- Nieco Broiler includes preset cooking temperatures and preset optimized feeder chain speed
- Completely self-contained, 4-stage filtration system with a cyclonic separation filter
- Resistive interactive touchscreen that displays instant status of filters and filter doors and periodic maintenance schedule timing
- Welded stainless steel construction for durability, strength and ease of cleaning
- Self-contained filtration process reduces emissions below levels allowed in the EPA 202 test method complying to the UL710B Standard.
- Pre-engineered factory installed Ansul fire protection system
- Fire protection system includes a dry contact micro switch for connection to a central fire alarm system
- Low operating noise <70 dBA average
- The VentCore with integral Nieco Broiler is semi-mobile and mounted on locking caster wheels for easy maintenance
- Easily washable stainless steel grease baffle filters, cyclonic particulate separation filter, mesh particulate filters, and electrostatic precipitator filters means no disposable filters.
- Electric service is 208V, 3-phase, 80AMP (3L+N+G), User provided electrical hook-up.
- The VentCore unit ships with one complete set of filters and an owner's manual
- Limited one-year parts and labor warranty

AVAILABLE PARTS

- PU-VC1-0120 Stainless Steel Grease Baffle Filter
- PU-VC1-0160 Aluminum Mesh Pre-Filter 1"
- PU-VC1-0161 Aluminum Mesh Pre-Filter 2"
- PU-VC1-0121 Electrostatic Precipitator (ESP Cell)
- PU-UAP-0048N Cyclonic Filter Canister Gasket

CERTIFICATIONS



UL710B LISTED



Evo America, LLC 20360 SW Avery Ct., Tualatin, OR 97062

Ph 503-626-1802 • Fax 503-213-5869 • evoamerica.com • sales@evoamerica.com

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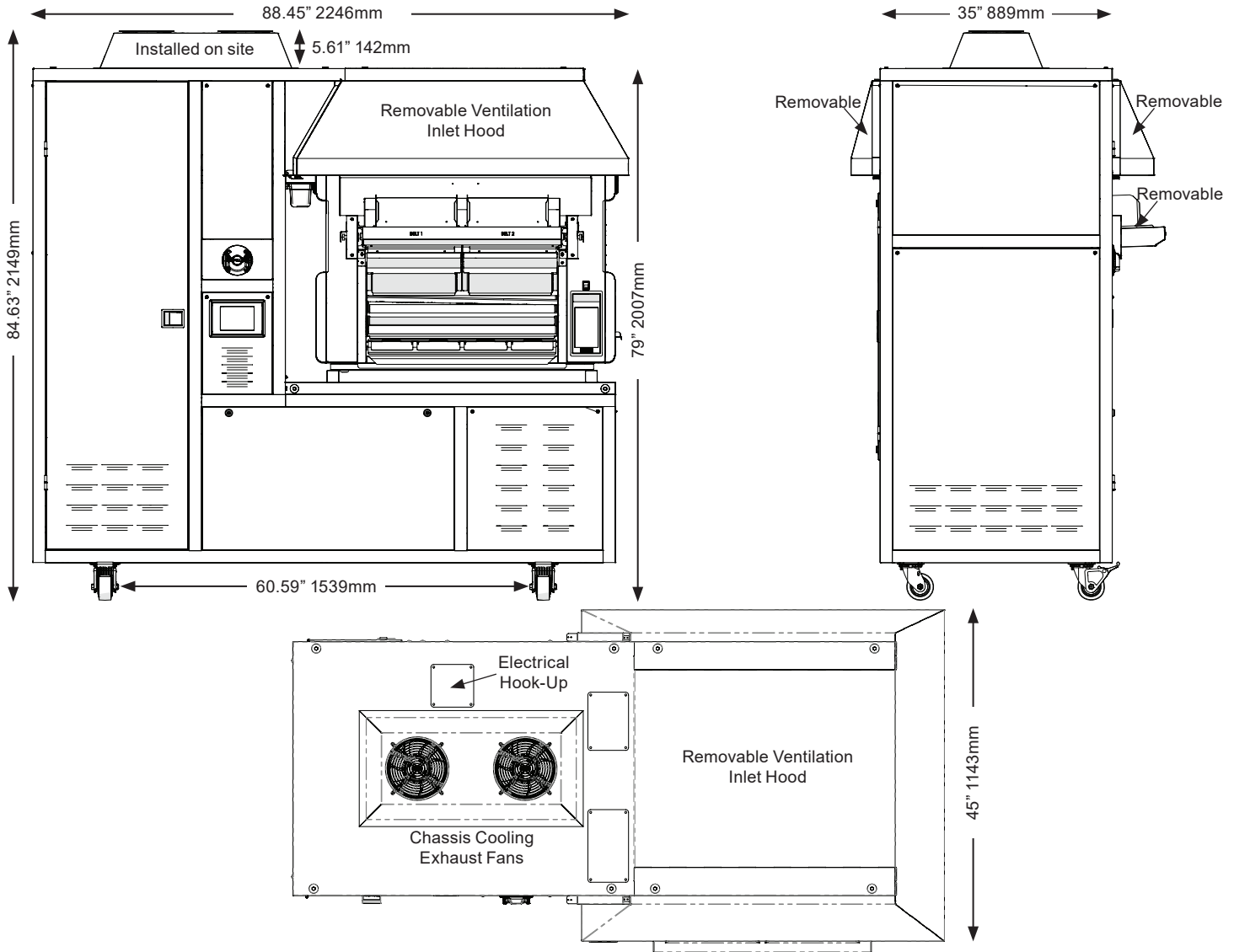
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Model	Broiler Cooking	Chassis Dimensions			Voltage & Phase	AMP Draw	Max Breaker	Cord Type	Weight (Ship)
		H	W	D					
10-0800-VCMV	Double Feed Chain	84.63" 2194mm	45" 1143mm	88.45" 2246mm	208V 3 Phase (3L+N+G) 60Hz	68 AMPS MAX	80 AMP (Dedicated)	Hook-Up By Electrician	1871 lbs 849 kg

**MINIMUM CLEARANCE FROM UNIT TO NEAREST COMBUSTIBLE SURFACE
(UNIT MUST BE SERVICEABLE FROM ALL SIDES)**

	Back (Guest)	Side	Front (Chef)	Top (Minimum Ceiling)
Inches	0"	0"	36" recommended 24" minimum	96" minimum ceiling height A.F.F (Above Finish Floor)
(MM)	(0)	(0)	(914) recommended (610) minimum	(2438) minimum ceiling height A.F.F (Above Finish Floor)

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> DESIGN & INSTALLATION CONSIDERATIONS

Positioning the Unit – Clearance

- Evo VentCore with Nieco broiler arrives palletized & strapped in a heavy corrugated shipping carton. Once unpacked, it is important to have adequate clearance to move and position the unit in place. Allow minimum of 40" (1016 mm) width into door openings and a minimum of 7'2" (2184 mm) height door opening into the space to allow the unit to be placed indoors.

Electrical Outlet & Fire Alarm Notification Wiring

- Unit requires a hard-wire connection to electrical service by a qualified electrician. An electrical connection is made from the top of the unit, with wire terminating at the units electrical panel.
- The unit is equipment with an Ansul fire suppression system and an low-voltage electrical mirco-switch to provide notification to a fire alarm system. The wiring for the alarm notification must be provided by a qualified electrician or alarm contractor.

Ventilation Considerations

- The building HVAC system plays a large part in the efficiency of the Evo VentCore with Nieco broiler unit. The HVAC system should be designed to allow adequate cooling load for the space where the VentCore will be located, while minimizing the velocity of air exiting diffusers which may be located near the VentCore.
- If diffuser air velocity is unavoidable, diffusers should be positioned to direct air away from the VentCore capture hood located over the Nieco broiler. Air blowing across the capture hood will inhibit the designed capture of smoke and grease laden vapor.
- A minimum of 70 cubic feet of fresh air per minute is required both in and out of the location where the VentCore is located to ensure the dilution of cooking aromas. Dedicated Make-up Air unit not required. Please consult your HVAC contractor.

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