

# MOLITRON

COMPANY INC



## ENVIRO-PAK FILTER ASSEMBLY CATALOG



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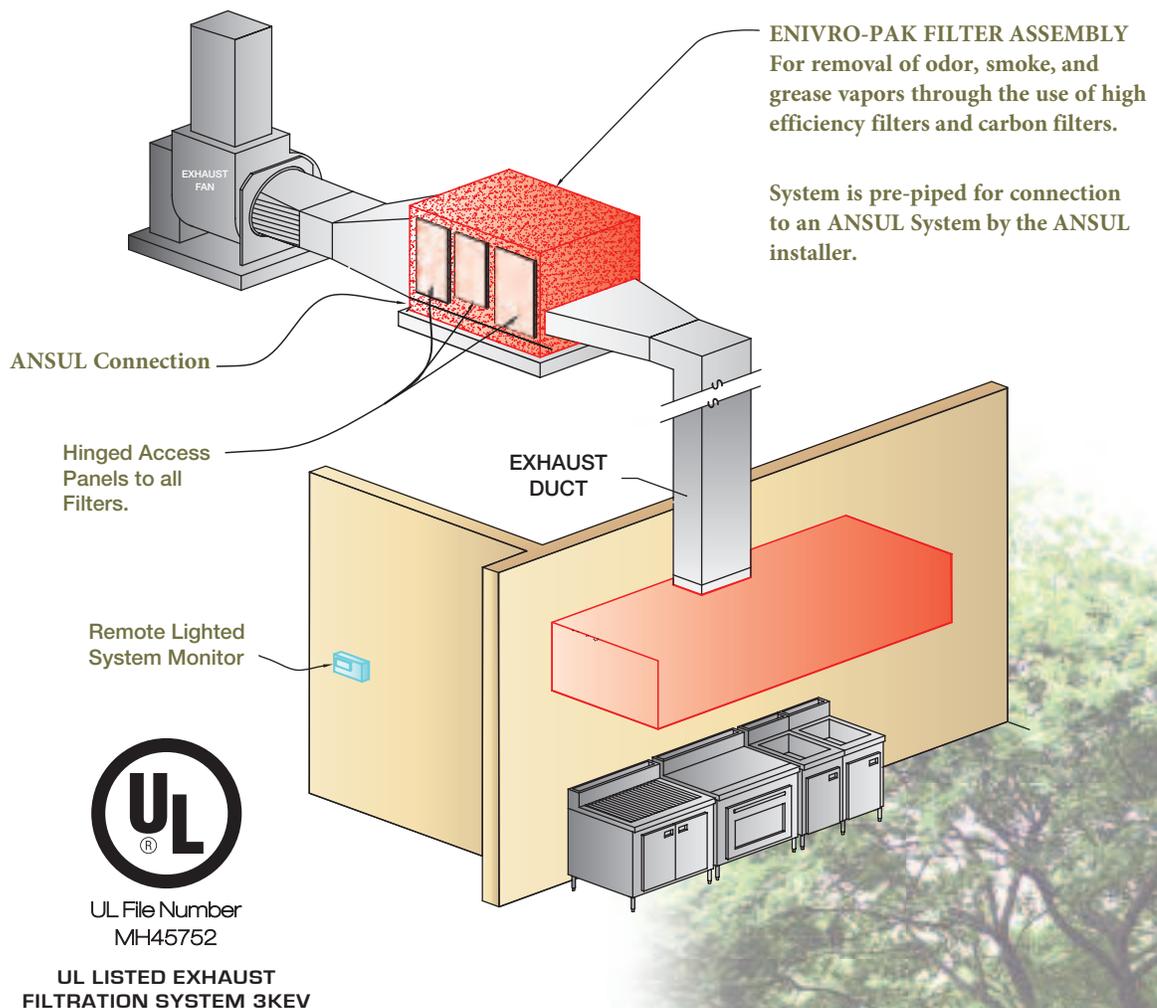
# MOLITRON ENVIRO-PAK FILTER ASSEMBLY

The Molitron UL Listed Enviro-Pak Filter Assembly (EPFA) is 18 gauge, type 304 stainless steel enclosure fitted with top, bottom, and end channels for holding in place pre-filters and 95% or higher Class One filter media for removing odor, smoke, and grease vapors from kitchen exhaust air.

Cooking emissions can become a neighborhood nuisance if not properly controlled. Visible smoke & odor may alert authorities to possible compliance problems.

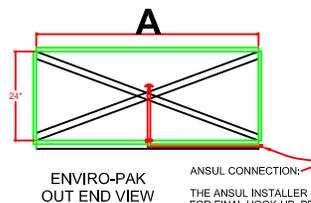
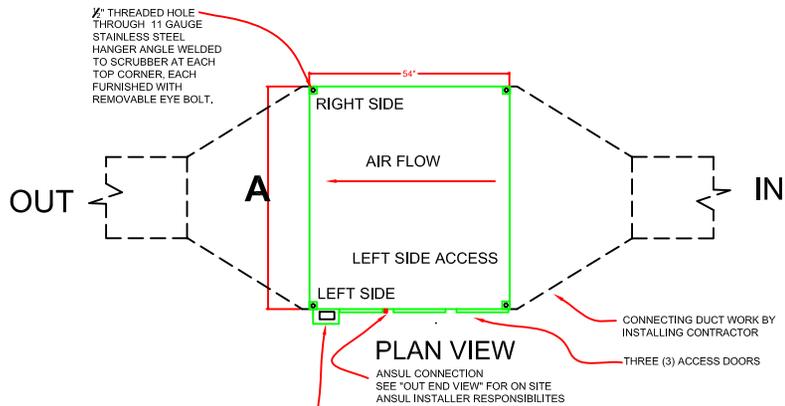
An **ENVIRO-PAK FILTER ASSEMBLY** removes these concerns and **CREATES CLEAN AIR!**

Designed especially for light duty commercial kitchens, the **ENVIRO-PAK FILTER ASSEMBLY** can be located at any point, indoor or outdoor, between the kitchen hood and the point of discharge of the exhaust air into the atmosphere.

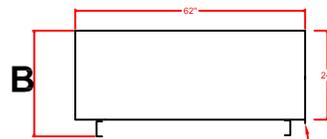


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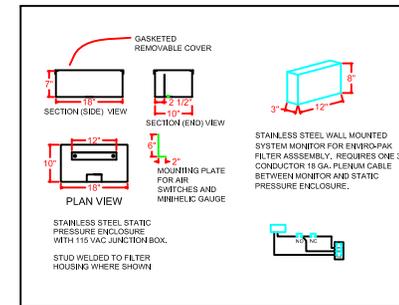


**ANSUL CONNECTION:**  
 THE ANSUL INSTALLER ON SITE IS RESPONSIBLE FOR FINAL HOOK-UP, PERMITS, DRAWING SUBMITTALS, FINAL TESTING AND SHALL PROVIDE ANSUL TANKS, AGENT, PIPING FROM TANKS TO PREPIPED NOZZLES, REGULATED ACTUATORS, CARTRIDGES ETC. THE DETECTORES ARE MECHANICAL FUSIBLE LINK, NOT ELECTRIC.

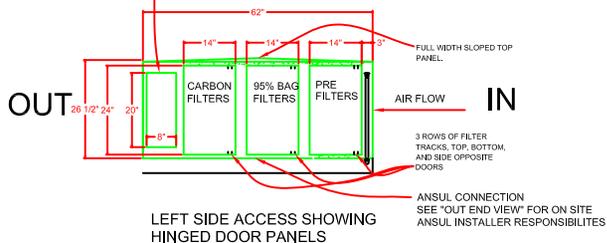


**ELEVATION SIDE OPPOSITE ACCESS DOORS**

1/2" FLANGE AROUND TOTAL PERIMETER OF ENVIRO-PAK FILTER ASSEMBLY FOR WELDING TO CONNECTING DUCT WORK.  
 1.5" X 4" STAINLESS STEEL FULL WIDTH BOTTOM RAIL WELDED TO BOTTOM OF ENVIRO-PAK FILTER ASSEMBLY



ENCLOSURE FOR TRANSFORMER, STATIC PRESSURE PROBE AND WIRING CONNECTIONS TO SYTEM MONITOR.  
 REQUIRES ONE 115 VAC FOR 24 VAC TRANSFORMER



**LEFT SIDE ACCESS SHOWING HINGED DOOR PANELS**

Model Number	Qty	CFM	Weight	Pre-Filters		High Eff. Filters		A Width	B Height
				24 x 12	24 x 24	24 x 12	24 x 24		
EPFA-24	1	1,800	200	1	1	2	2	24	28
EPFA-36	1	2,700	250	1	1	2	2	36	28
EPFA-48	1	3,600	300		2	4	4	48	28
EPFA-60	1	4,500	350	1	2	2	4	60	28
EPFA-72	1	5,400	400		3	6	6	72	28
EPFA-84	1	6,300	450	1	3	2	6	84	28
EPFA-96	1	7,200	500		4	8	8	96	28
EPFA-48	2	7,200	600		4	8	8	48	52
EPFA-60	2	9,000	700	2	4	4	8	60	52
EPFA-72	2	10,800	800		6	12	12	72	52
EPFA-84	2	12,600	900	2	6	4	12	84	52
EPFA-96	2	14,400	1,000		8	16	16	96	52

FILTER ASSEMBLY SHALL BE ALL WELDED 18 GA STAINLESS STEEL CONSTRUCTION, FURNISHED WITH THREE REMOVEABLE DOORS FOR ACCESS TO INTERNAL FILTERS

TRACK WIDTH: 1" TOP, BOTTOM AND SIDE OPPOSITE ACCESS DOORS.  
 TRACK HEIGHT 5/8"

TRACKS TO BE SEALED TO OUTSIDE SKIN WITH HIGH TEMP. SILICONE

SERVICE ACCESS SIDE OF SCRUBBER REQUIRES A MINIMUM OF 30" FREE SPACE BETWEEN SCRUBBER AND ANY ADJACENT WALLS.

ALL OTHER SIDES MUST BE A MINIMUM OF 18" CLEARANCE TO COMBUSTIBLE MATERIALS AND BUILDING INSULATION OR 0" CLEARANCE TO NON-COMBUSTIBLE MATERIALS.

ENVIRO-PAK FILTER ASSEMBLY, SYSTEM FURNISHED WITH TWO MASTERSEAL PRE-FILTERS, TWO 24 X 24 X 12" 95% BAG FILTERS AND TWO CARBON FILTERS.

BASIC FOOTPRINT FOR THIS ASSEMBLY IS "B FROM TABLE" BY 62". 1.5" X 4" STAINLESS STEEL CHANNELS TO BE WELDED TO BOTTOM OF HOUSING.

SIZE EXHAUST FAN FOR 2.5" W.G.S.P. PLUS HOOD AND DUCT STATIC LOSS.

EXHAUST FAN SHOULD BE 1.) UL LISTED FOR KITCHEN EXHAUST APPLICATIONS. 2.) A BACKWARD INCLINED UTILITY TYPE FAN WITH EASILY ADJUSTABLE RPM.



UL File Number  
 MH45752  
 UL LISTED EXHAUST  
 FILTRATION SYSTEM 3KEV

**INSTALL AND USE ONLY IN ACCORDANCE WITH MOLITRON INSTALLATION AND MAINTENANCE INSTRUCTIONS.**

INSTALLING CONTRACTOR IS RESPONSIBLE FOR ANY LOCAL CODE REQUIREMENTS.

**MAINTAIN A MINIMUM AIR SPACE CLEARANCE OF 18" TO COMBUSTIBLE MATERIALS AND BUILDING INSULATION.**

**MOLITRON**  
COMPANY INC.

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 cleanair@molltron.com  
 molltron.com

DRAWN BY	SA	REVISIONS	BY
DATE	6/2016		
CHECKED BY	SA		
SCALE	As Shown		
JOB NAME		JOB NO.	
EPFA WITH CARBON FILTERS		ITEMS	
FOR:		SHEET 1 OF 1	

**MOLITRON**  
COMPANY INC.



# MOAS

**ODOR AND SMOKE ABATEMENT SYSTEM**



*1457 Ammons Street, Suite 103 • Lakewood, Colorado 80214*

**Phone:** 303-969-8888 • 800-525-9494

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# MOLITRON ODOR ABATEMENT SYSTEM

## THE MOAS FOR SIMPLIFIED ODOR NEUTRALIZATION

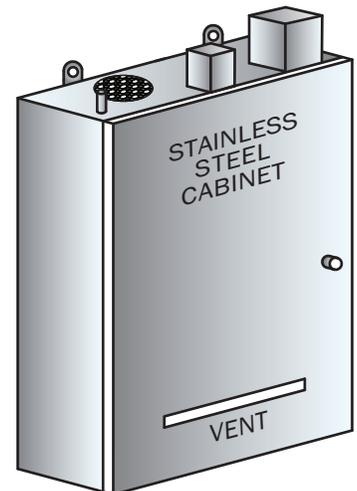
The Molitron Odor Abatement System (MOAS) is designed to provide a totally self contained system for neutralizing offensive odors and smoke emanating from commercial exhausts or any other source of undesirable odors and smoke. The MOAS can be used independently, or with the Molitron Enviro-Clean Air Scrubber or Enviro-Pak Filter Assembly.

The Molitron Odor Abatement System can reduce up to 95% of the odor particles and up to 50% of the smoke particles.

The MOAS dispenses a neutralizing solution through nozzles located in the exhaust air stream. Chemical neutralization changes the particle's molecular structure, effectively modifying it. And, unlike chemical masking agents or perfumes that superimpose a pleasant fragrance on an unpleasant odor, odor neutralizers absorb and convert malodors resulting in a reduction in odor and smoke particles.

## EASY INSTALLATION AND MAINTENANCE

All necessary components, except for the remote atomizing nozzles, are located in a stainless steel wall mounted cabinet. Utilities required are one 115 VAC electric service and one 1/4" cold water supply. Connecting the basic MOAS cabinet to the remotely located atomizing nozzles are one 1/4" OD liquid hose and one 3/8" OD air hose.

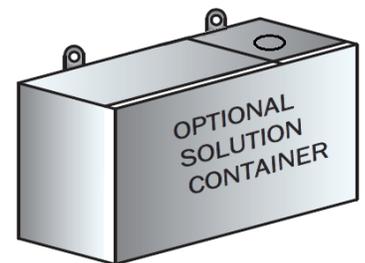


WALL MOUNTED 18 GA. STAINLESS STEEL CABINET, 24" WIDE, 32" HIGH, 8" DEEP APPROXIMATE WEIGHT: 95 LBS.

## RECENT INSTALLATIONS

Alexander's Steak House  
Chipotle Restaurants  
Island Burgers  
Eureka Burger  
The Counter Burgers  
Cooper's Pit Bar-B-Que  
Mike's BBQ  
Good Union Urban BBQ

Skyline College  
Your Pie  
Tupelo Honey  
Rito Loco  
Park Burger  
Jersey Mike's Subs  
St. Anthony's Hospitals  
True Food Kitchen



OPTIONAL: 10 GALLON SOLUTION CONTAINER, WALL MOUNTED 16 GA. SS, 24" WIDE, 12" HIGH, 8" DEEP APPROXIMATE WEIGHT: 20 LBS EMPTY, 100 LBS FULL.



**Moli-tron**<sup>®</sup>  
Company, Inc.

To Whom It may Concern

The MoliTron "MOAS" Odor & Smoke Abatement System will reduce odor particles by approximately 95% and reduce approximately 50% of smoke particles. The exact reduction of smoke particles cannot be determined because of various cooking processes utilized and the variation in the efficiency of kitchen hood grease removal devices. However, we recommend that the MOAs nozzles be located as closely as possible to the source of the contaminants, both odor and visible smoke particles, in order to maximize the effectiveness of the MOAS system.

  
Arlen Gallagher

President



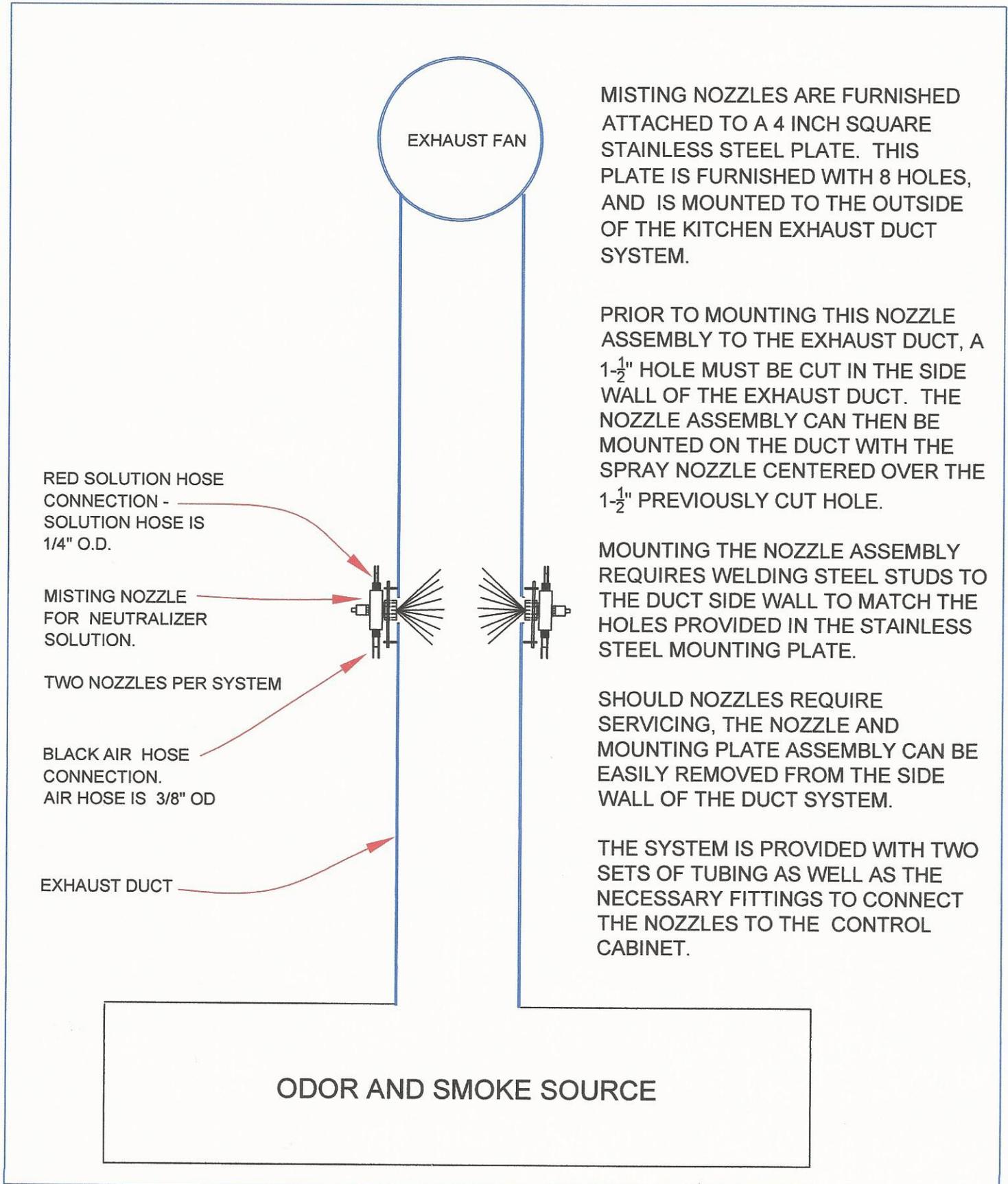
## MOLITRON ODOR AND SMOKE ABATEMENT SYSTEM

### MOAS CONCENTRATE INFORMATION

The Molitron Odor and Smoke Abatement System is one which automatically dilutes the MOAS concentrate for atomization into an exhaust air stream. The amount of concentrate required to neutralize all odors and smoke depends on the solution concentration setting and the length of time available to mix the atomized MOAS concentrate with the air stream before being released into the atmosphere. The amount of concentrate required is manually adjusted inside the MOAS cabinet. Satisfactory performance will result after the volume of concentrate is adjusted to the proper amount required to neutralize the odors and smoke in question. In most cases up to 95% of offensive odors and up to 50% of smoke particles will be neutralized.

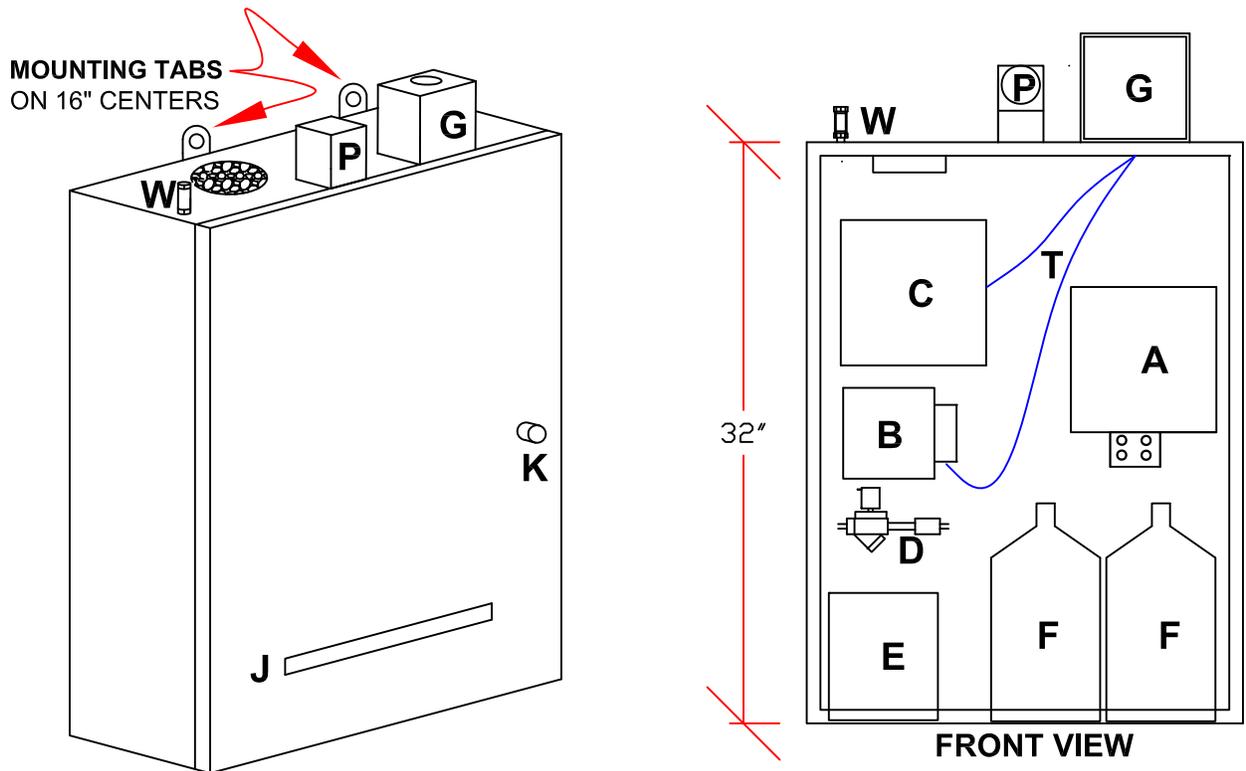
For maximum efficiency with the least amount of product used, there should be a minimum of 10 feet of duct from the point of the atomization nozzle to the point of air discharge into the atmosphere.

# INSTALLATION INSTRUCTIONS FOR THE MISTING NOZZLE



# MOLITRON ODOR ABATEMENT SYSTEM

THE "MOAS" FOR SIMPLIFIED ODOR NEUTRALIZATION  
FOR USE WITH ANY TYPE OF EQUIPMENT REQUIRING A MEANS OF  
NEUTRALIZING ODORS.



**WALL MOUNTED 18 GA. STAINLESS  
STEEL CABINET,  
24" WIDE, 32" HIGH, 8" DEEP.  
APPROXIMATE WEIGHT: 95 LBS**

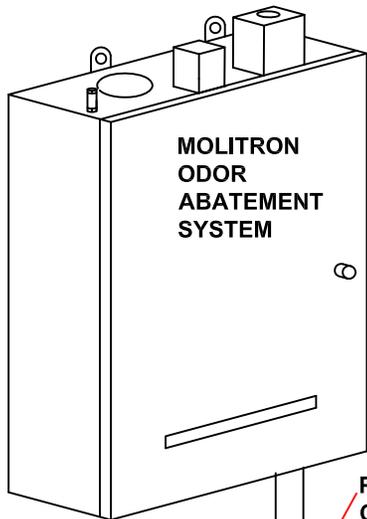
## PARTS IDENTIFICATION:

- A) UL LISTED ENCLOSURE FOR IDEC TIME CONTROLLER.
- B) 24 VOLT SOLUTION PUMP FOR ODOR NEUTRALIZER SOLUTION
- C) 115 VOLT GAST AIR COMPRESSOR
- D) 24 VOLT SOLENOID VALVE AND SOLUTION INJECTOR
- E) MIXING TANK
- F) ONE GALLON ODOR NEUTRALIZER SOLUTION
- G) 1" CONDUIT CONNECTION FOR TUBING TO MOAS MISTING NOZZLES.  
.....RED LIGHT ALARM FOR LOW SOLUTION WARNING.
- P) 115 VAC, 15 AMP SUPPLY CONNECTION
- W) 1/4" COLD WATER SUPPLY CONNECTION
- J) FRESH AIR INLET
- K) CAM LATCH HANDLE
- T) AIR AND SOLUTION TUBING TO MISTING NOZZLES

UTILITIES: 115 V, 15 AMP CIRCUIT AND ONE 1/4" COLD WATER (80 PSI).

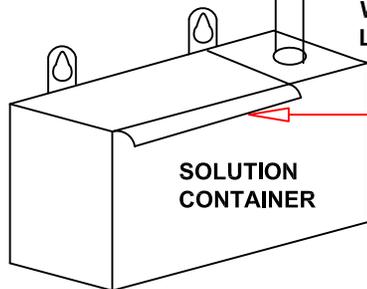
# MOLITRON ODOR ABATEMENT SYSTEM

## OPTIONAL 10 GALLON STAINLESS STEEL SOLUTION CONTAINER



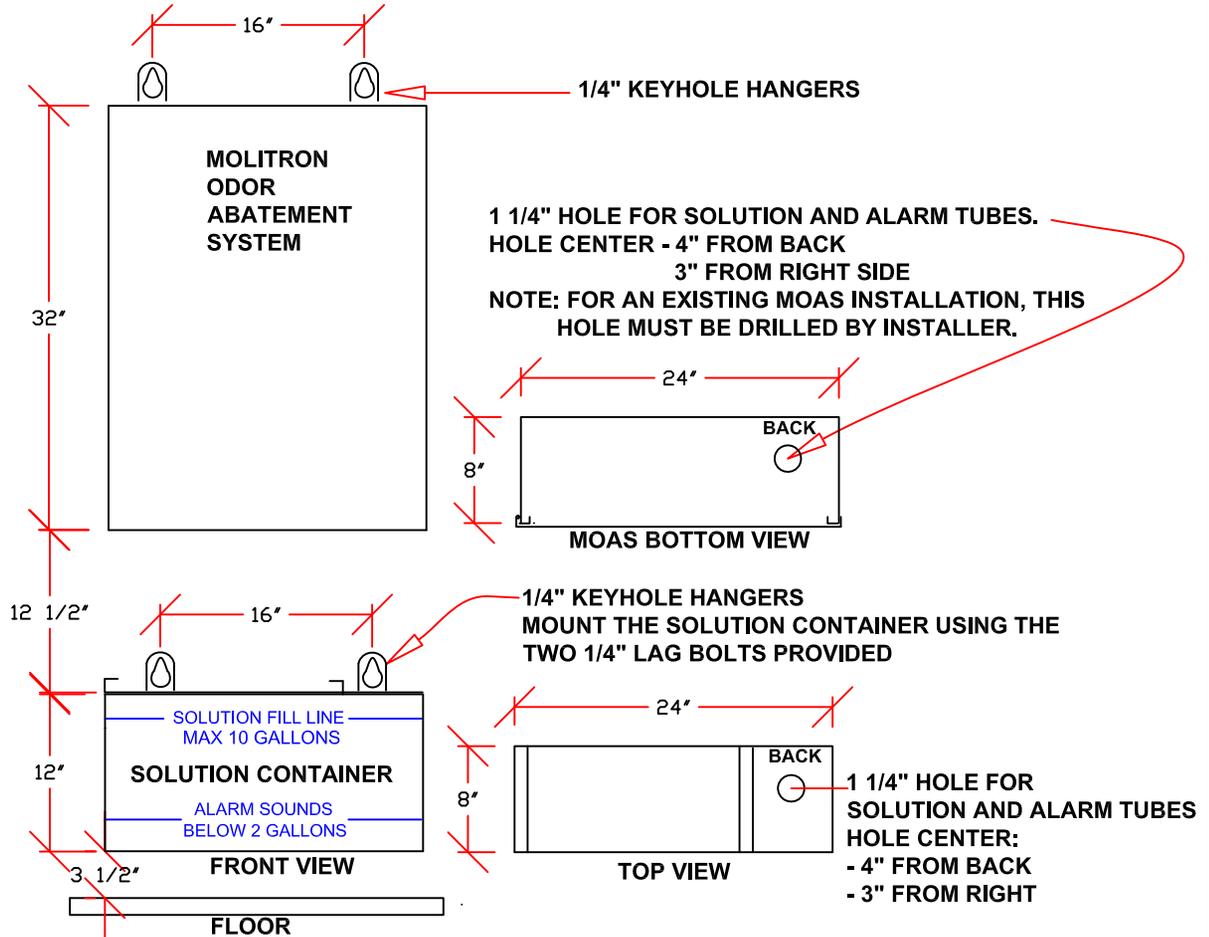
MOLITRON  
ODOR  
ABATEMENT  
SYSTEM

PROVIDED: 1/2" TUBE 30" LONG  
CONTAINING SOLUTION AND  
ALARM TUBES. CUSTOM  
LENGTHS MAY BE SPECIFIED  
WHEN ORDERING. OPTIMAL  
LENGTH IS 8 FEET OR LESS.



SOLUTION  
CONTAINER

ANGLE GRIP FOR  
REMOVING SLIDING LID  
FOR FILLING CONTAINER



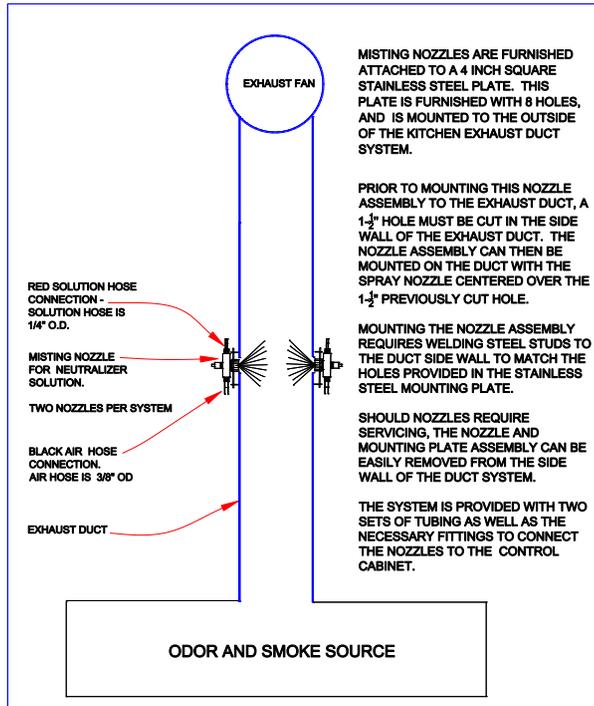
**OPTIONAL: 10 GALLON SOLUTION  
CONTAINER, WALL MOUNTED 16 GA. SS,  
24" WIDE, 12" HIGH, 8" DEEP**

**APPROXIMATE WEIGHT: 20 LBS EMPTY, 100 LBS FULL.  
ALARM SOUNDS WHEN LESS THAN 2 GALLONS REMAIN.**

CONTACT WILLIE GEE 650-922-8992  
FOR INFORMATION AND PRICING

<b>MOLITRON</b> <small>CORPORATION INC.</small>		303.969.8888 cleanair@molitron.com molitron.com	
DRAWN BY	SA	REVISIONS	BY
DATE	6-30-16		
CHECKED BY	SA		
SCALE	As Shown		
JOB NAME		JOB NO. 0000	
MOAS SOLUTION CONTAINER		ITEMS	
FOR:		SHEET 1 OF 1	

**INSTALLATION INSTRUCTIONS FOR THE MISTING NOZZLE**



MISTING NOZZLES ARE FURNISHED ATTACHED TO A 4 INCH SQUARE STAINLESS STEEL PLATE. THIS PLATE IS FURNISHED WITH 8 HOLES, AND IS MOUNTED TO THE OUTSIDE OF THE KITCHEN EXHAUST DUCT SYSTEM.

PRIOR TO MOUNTING THIS NOZZLE ASSEMBLY TO THE EXHAUST DUCT, A 1-1/2" HOLE MUST BE CUT IN THE SIDE WALL OF THE EXHAUST DUCT. THE NOZZLE ASSEMBLY CAN THEN BE MOUNTED ON THE DUCT WITH THE SPRAY NOZZLE CENTERED OVER THE 1-1/2" PREVIOUSLY CUT HOLE.

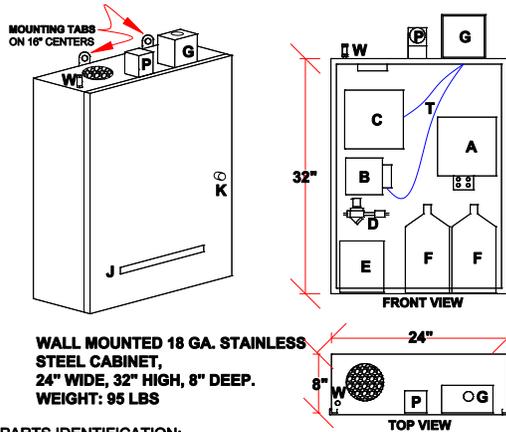
MOUNTING THE NOZZLE ASSEMBLY REQUIRES WELDING STEEL STUDS TO THE DUCT SIDE WALL TO MATCH THE HOLES PROVIDED IN THE STAINLESS STEEL MOUNTING PLATE.

SHOULD NOZZLES REQUIRE SERVICING, THE NOZZLE AND MOUNTING PLATE ASSEMBLY CAN BE EASILY REMOVED FROM THE SIDE WALL OF THE DUCT SYSTEM.

THE SYSTEM IS PROVIDED WITH TWO SETS OF TUBING AS WELL AS THE NECESSARY FITTINGS TO CONNECT THE NOZZLES TO THE CONTROL CABINET.

**MOLITRON ODOR AND SMOKE ABATEMENT SYSTEM**

THE "MOAS" FOR SIMPLIFIED ODOR NEUTRALIZATION FOR USE WITH ANY TYPE OF EQUIPMENT REQUIRING A MEANS OF NEUTRALIZING ODORS AND SMOKE.



**WALL MOUNTED 18 GA. STAINLESS STEEL CABINET, 24" WIDE, 32" HIGH, 8" DEEP. WEIGHT: 95 LBS**

- PARTS IDENTIFICATION:**
- A) UL LISTED ENCLOSURE FOR IDEC TIME CONTROLLER.
  - B) 24 VOLT SOLUTION PUMP FOR ODOR NEUTRALIZER SOLUTION
  - C) 115 VOLT GAST AIR COMPRESSOR
  - D) 24 VOLT SOLENOID VALVE AND SOLUTION INJECTOR
  - E) MIXING TANK
  - F) ONE GALLON ODOR NEUTRALIZER SOLUTION
  - G) 1" CONDUIT CONNECTION FOR TUBING TO MOAS MISTING NOZZLES.
  - .....RED LIGHT ALARM FOR LOW SOLUTION WARNING.
  - P) 115 VAC, 15 AMP SUPPLY CONNECTION
  - W) 1/4" COLD WATER SUPPLY CONNECTION
  - J) FRESH AIR INLET
  - K) CAM LATCH HANDLE
  - T) AIR AND SOLUTION TUBING TO MISTING NOZZLES

UTILITIES REQUIRED: 115 VOLT, 15 AMP CIRCUIT AND ONE 1/4" COLD WATER SUPPLY.

**Molitron Odor Abatement System (MOAS)**, designed for the express purpose of neutralizing odors emanating from commercial exhaust systems. The MOAS is comprised of a stainless steel cabinet with hinged door, 24" wide, 32" high and 8" deep. Interior components consist of an air compressor, a solution pump, an internal cooling fan, a mixing tank, a solenoid valve, a solution injector with an adjustable volume control and an electrical control system with disconnect switch that turns the system on and off at preset time intervals. Utility requirements are one 1/4" cold water supply and one 115 vac supply circuit. Connections for both water and electric are on the top of the stainless steel enclosure as are the connecting points for 3/8" O.D. compressed air tubing and for 1/4" O.D. neutralizing solution tubing. Maximum tubing length should not exceed 100 feet.

Injection of the odor neutralizing solution into the contaminated air stream is accomplished through the use of stainless steel atomizing nozzles mounted through the wall of the exhaust duct. The nozzles must be connected to the 3/8" and 1/4" tubing that exit from the stainless steel enclosure. When the system is in use, the nozzles spray a fine mist of compressed air and odor neutralizing solution which quickly mixes with the moving air in the duct system as it neutralizes the odors.

Each system is furnished with two nozzles which are adequate for up to 6,000 CFM. Nozzles should be located as far as possible from the point of discharge to the atmosphere to allow for maximum neutralization of odors.

Satisfactory system performance can be increased or decreased by adjusting the dilution ratio set point located on the brass solution injector on the cold water supply. Start up and calibration must be done in accordance with installation manual.

**CONTACT WILLIE GEE 650-922-8992 FOR INFORMATION AND PRICING**



**MOLITRON** COMPANY INC. 1457 Ammons Street, Suite 211 Lakewood, CO 80214 303-969-8888 800-525-9494

DRAWN BY		REVISIONS		BY
DATE	12/15/14			
CHECKED BY	BG			
SCALE	As Shown			
JOB NAME				JOB NO. 0000
<b>ODOR ABATEMENT SYSTEM</b>				ITEMS
FOR: PRIME EFFICIENCY HVAC				SHEET 1 OF 1

# MOLITRON ODOR ABATEMENT SYSTEM

## EQUIPMENT DESCRIPTION

The MOLITRON ODOR AND SMOKE ABATEMENT SYSTEM (MOAS) is designed for the express purpose of neutralizing odors and smoke emanating from commercial exhaust systems. The MOAS is comprised of a stainless steel cabinet with a hinged door, 24" wide, 32" high and 8" deep. Interior components consist of an air compressor, a solution pump, an internal cooling fan, a mixing tank, a solenoid valve, a solution injector with an adjustable volume control and an electrical control system with a disconnect switch that turns the system on and off at preset time intervals. Utility requirements are one 1/4" cold water supply and one 115 vac supply circuit. Connections for both water and electric are on the top of the stainless steel enclosure as are the connecting points for 3/8" OD compressed air tubing and for 1/4" OD neutralizing solution tubing. Maximum tubing length should not exceed 100 feet.

Injection of the odor and smoke neutralizing solution into the contaminated air stream is accomplished through the use of stainless steel atomizing nozzles mounted through the wall of the exhaust duct. The nozzles must be connected to the 3/8" and 1/4" tubing that exit from the stainless steel enclosure. When the system is in use, the nozzles spray a fine mist of compressed air and neutralizing solution which quickly mixes with the moving air in the duct system as it neutralizes the odors and smoke.

Each system is furnished with two nozzles which are adequate for up to 6,000 CFM. Nozzles should be located as far as possible from the point of discharge to the atmosphere to allow for maximum neutralization of odors and smoke.

System performance can be increased or decreased by adjusting the dilution ratio set point located on the brass solution injector on the cold water supply. Start up and calibration must be done in accordance with the MOLITRON MOAS installation manual.

## ETL LISTING

The Molitron Odor and Smoke Abatement System is ETL listed and tested to the following standards:

UL 197: Commercial Electric Cooking Appliances

UL 710, Clause 43: Fire and Leakage Test of Fittings for Hood Penetrations

**MOAS ETL LISTED**

**UL 197: COMMERCIAL ELECTRIC COOKING APPLIANCES  
UL 710, CLAUSE 43:  
FIRE & LEAKAGE TEST OF FITTINGS FOR HOOD PENETRATIONS**

