

## About this Document

This document contains specifications and recommendations for the installation of the AirMaid® Ozone Cleaning System (hereafter referred to as The Generator). Always thoroughly read the Installation and Service Guide which accompanies the product before installing, operate, or perform maintenance on The Generator. *(We disclaim any unintentional errors in the text when translating from the original language of this document)*

## Specifications

AirMaid®	Article Number	Max Exhaust Flow <small>Use parallel units for higher air flow</small>	ΔP Across Generator	Target Make Up Airflow
5000 V	10009	1500 cfm	0.40 inH <sub>2</sub> O @ 40 cfm	40 cfm
10000 V	10010	3000 cfm	0.80 inH <sub>2</sub> O @ 75 cfm	75 cfm
20000 V	10011	6000 cfm	0.62 inH <sub>2</sub> O @ 150 cfm	150 cfm
30000 V	10012	9000 cfm	0.59 inH <sub>2</sub> O @ 225 cfm	225 cfm

AirMaid®	Ozone Capacity	Power	Voltage	Main Breaker	Weight
5000 V	5000 mg/h	100 W	120V/60Hz	15A Slow	20 lbs
10000 V	10000 mg/h	200 W	120V/60Hz	15A Slow	22 lbs
20000 V	20000 mg/h	400 W	120V/60Hz	15A Slow	40 lbs
30000 V	30000 mg/h	500 W	120V/60Hz	15A Slow	61 lbs

## Standards

AirMaid® is ETL-listed by Intertek under file number 4006937 to conform to the following standards: UL 867, CAN/CSA-E60335-1/4E:03 and CAN/CSA-E60335-2-65:11.

## Material

The generator chassis is manufactured from AISI 304 stainless steel and is comprised of a main housing, a bottom access cover with two latches (for access to perform the required routine maintenance), and a top electronics compartment cover (not for end-user service).

## Make Up Airflow

With the extraction fan running the Make Up Airflow through each inlet pipe of an AirMaid® generator must always fall within the specification: 65 ± 20 cfm (with a preferred target airflow of 75 cfm per inlet pipe). When used in conjunction with VAV/VSD systems, if the total Make Up Airflow through the AirMaid® generator drops below the minimum specification at the lowest extraction fan speed then power to AirMaid® must then be cut off.

## Static Pressure

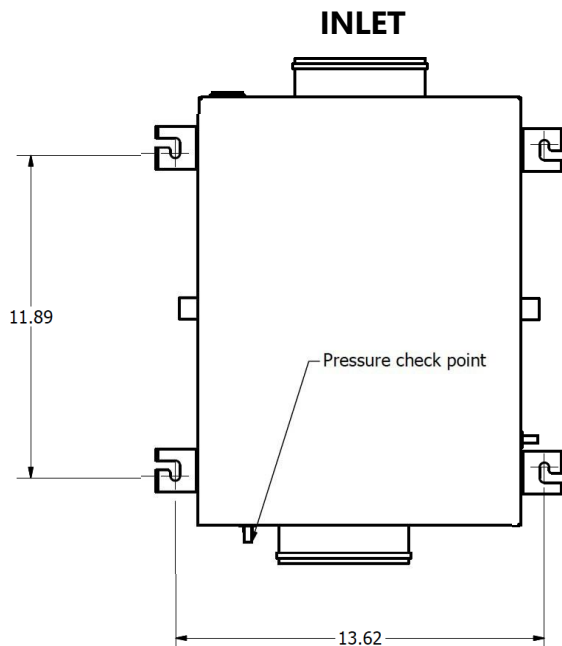
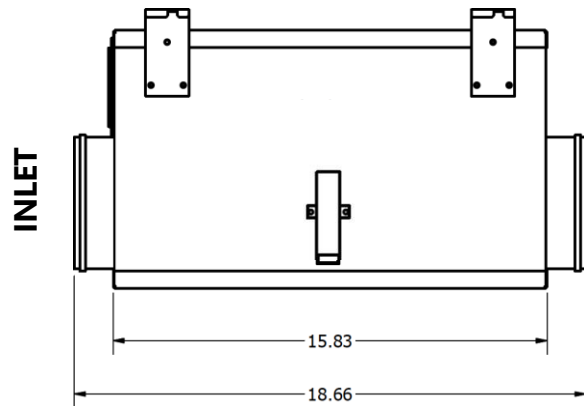
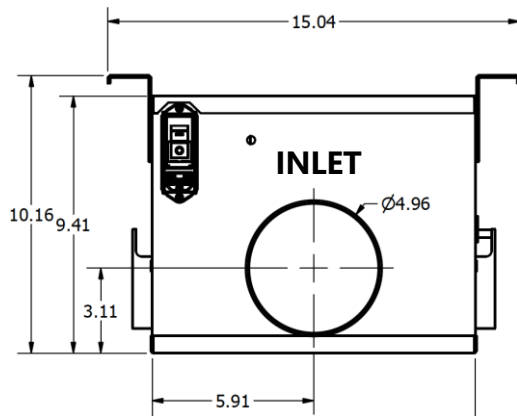
With the extraction fan running the Static Pressure inside the generator, when measured at the Pressure Check Point, must always fall within the specification: -0.08 inH<sub>2</sub>O to -40 inH<sub>2</sub>O. This is necessary for correct and reliable operation of the internal Pressure Safety Switch. When used in conjunction with VAV/VSD systems, the Static Pressure must fall within specifications even at the lowest extraction fan speed or the power to AirMaid® must then be cut off.

## 3-Second Minimum Dwell Time for Odor Reduction

Ozone is an effective oxidant for reducing cooking odor within grease ducts of commercial kitchens. To obtain good odor reduction results with AirMaid® it is important that the ozone have enough time to react with the odor particles in the duct airstream. We call this “reaction time” or “dwell time” and is measured from the hood closest to the point of exhaust. We recommend a minimum dwell time of 3 seconds to obtain “good” results for the reduction of cooking odor. However, please keep in mind that a longer dwell time will often provide even better results.

## Dimensions: AirMaid<sup>®</sup> 5000 V | 10000 V

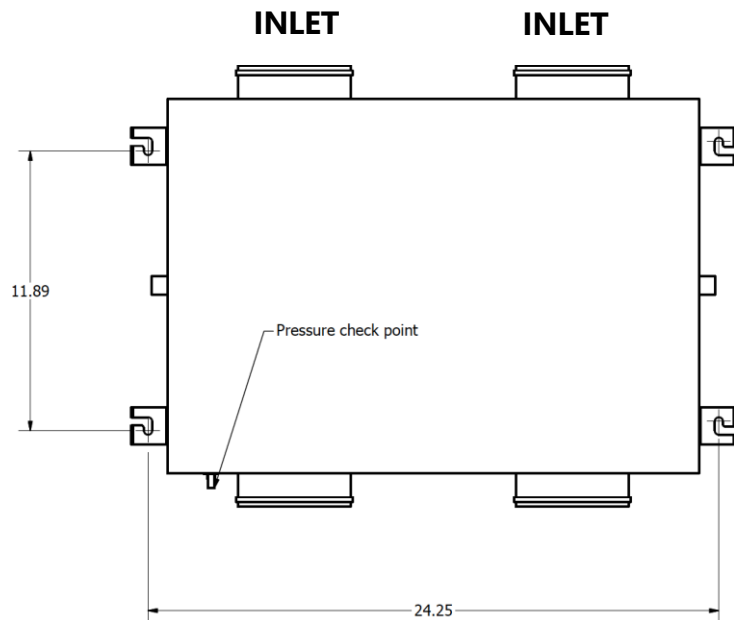
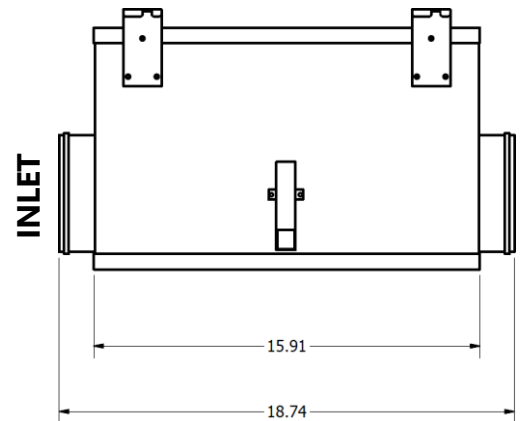
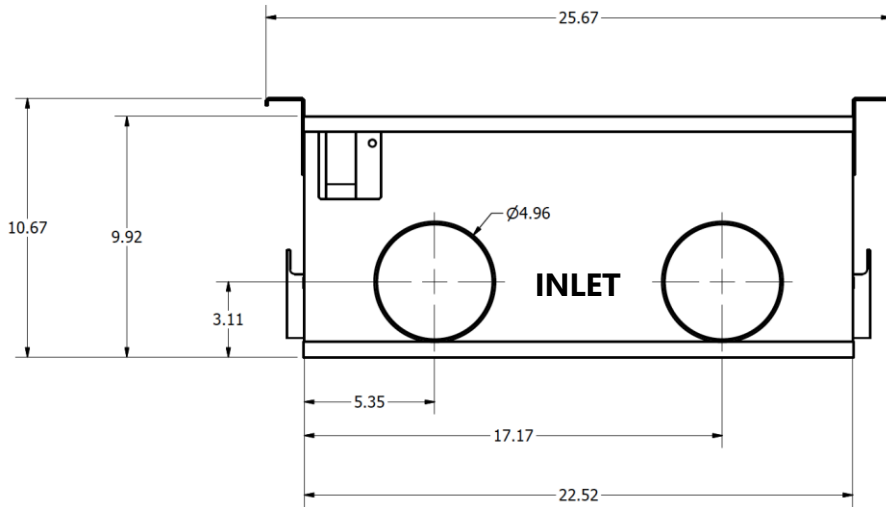
NOTE: All dimensions shown are in units of inches



Manual – Scan QR code

## Dimensions: AirMaid® 20000 V

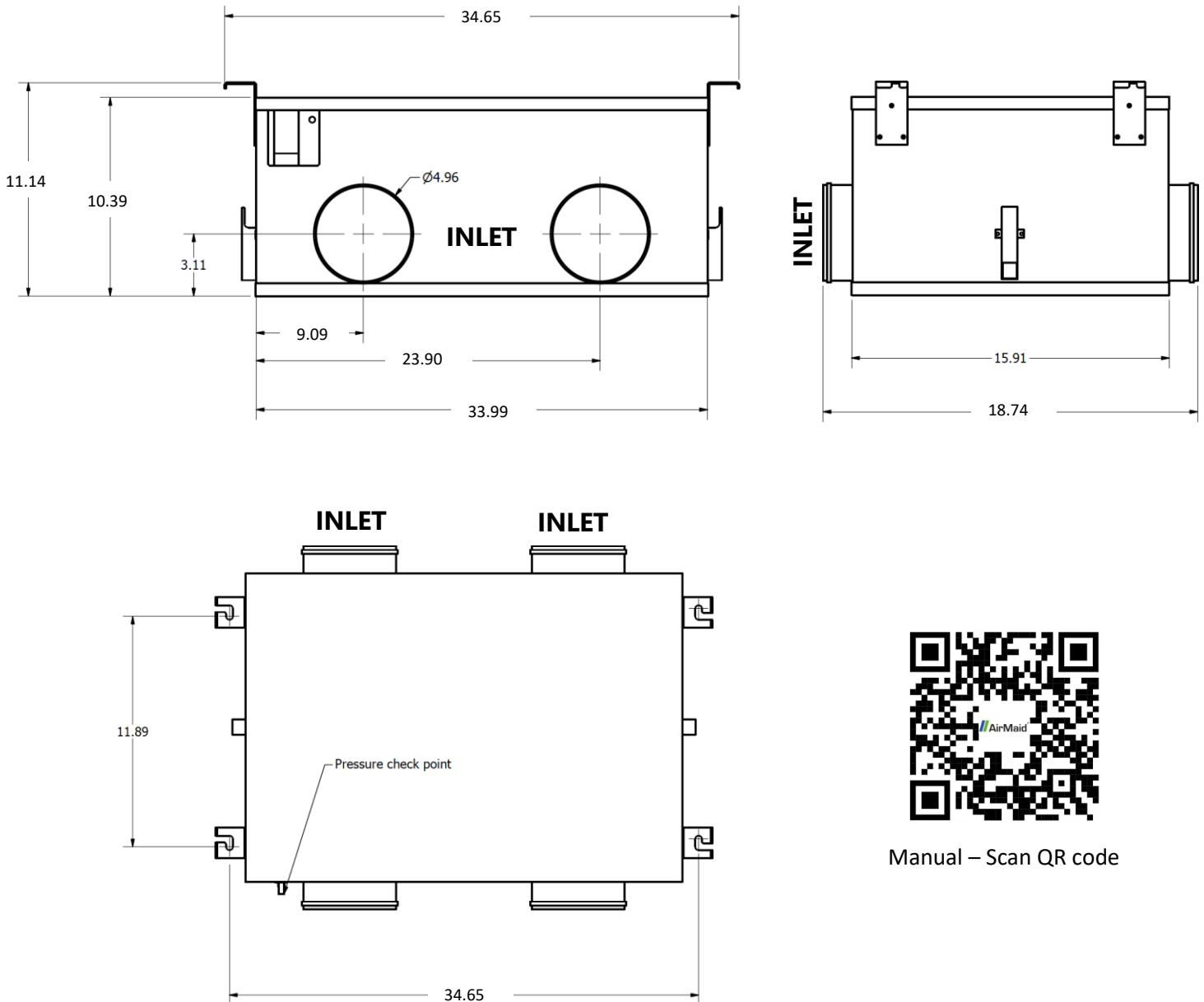
NOTE: All dimensions shown are in units of inches



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## Dimensions: AirMaid® 30000 V

NOTE: All dimensions shown are in units of inches

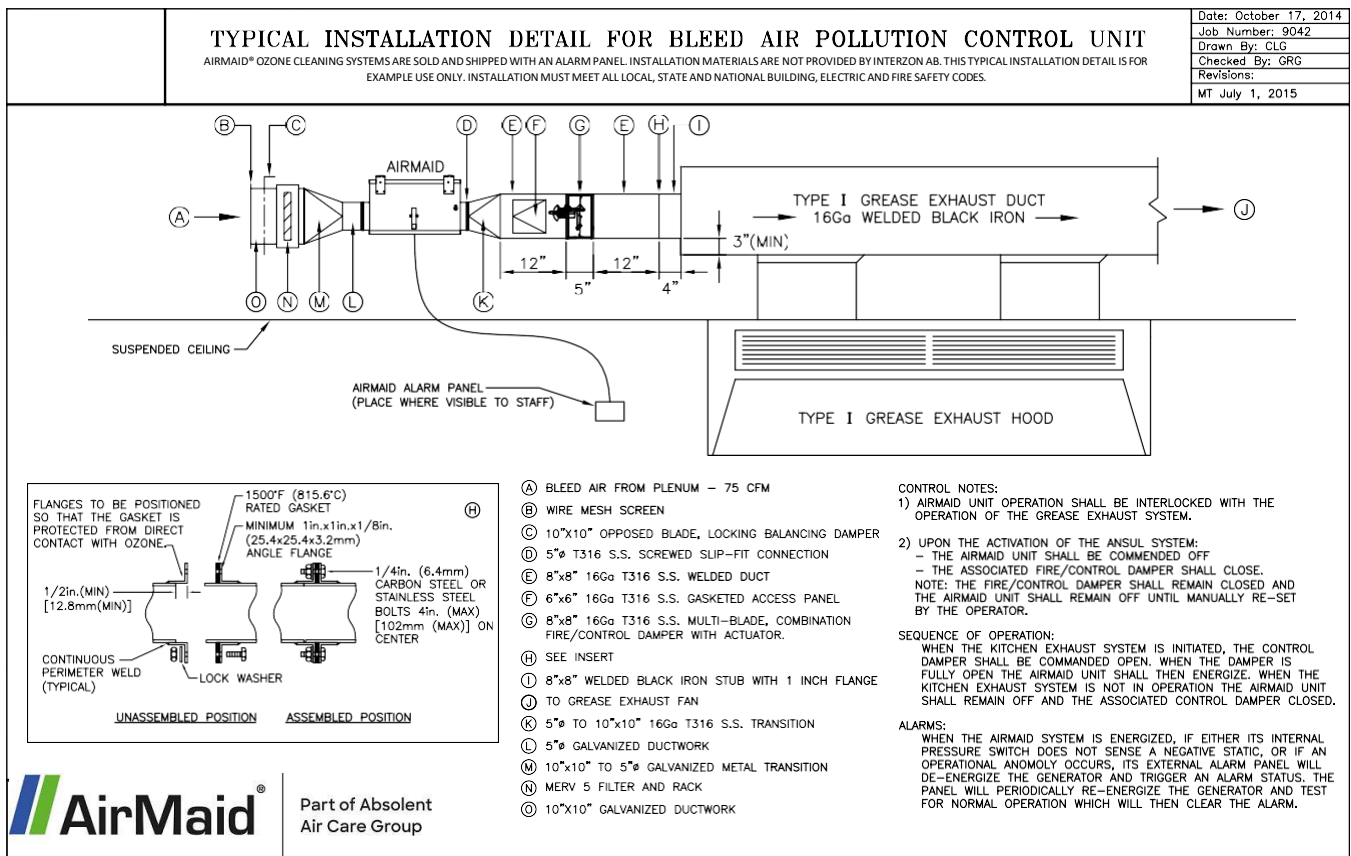


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## Typical Installation Detail (1/2)

AirMaid® Ozone Cleaning Systems are sold and delivered with an Alarm Panel. Installation materials are not provided by Absolent CKV AB | AirMaid®. The following typical installation detail is for example use only. Installation into a new or existing ventilation system must be properly exhausted to the outdoors and meet all local, state, and national building, electric, mechanical & fire safety codes.

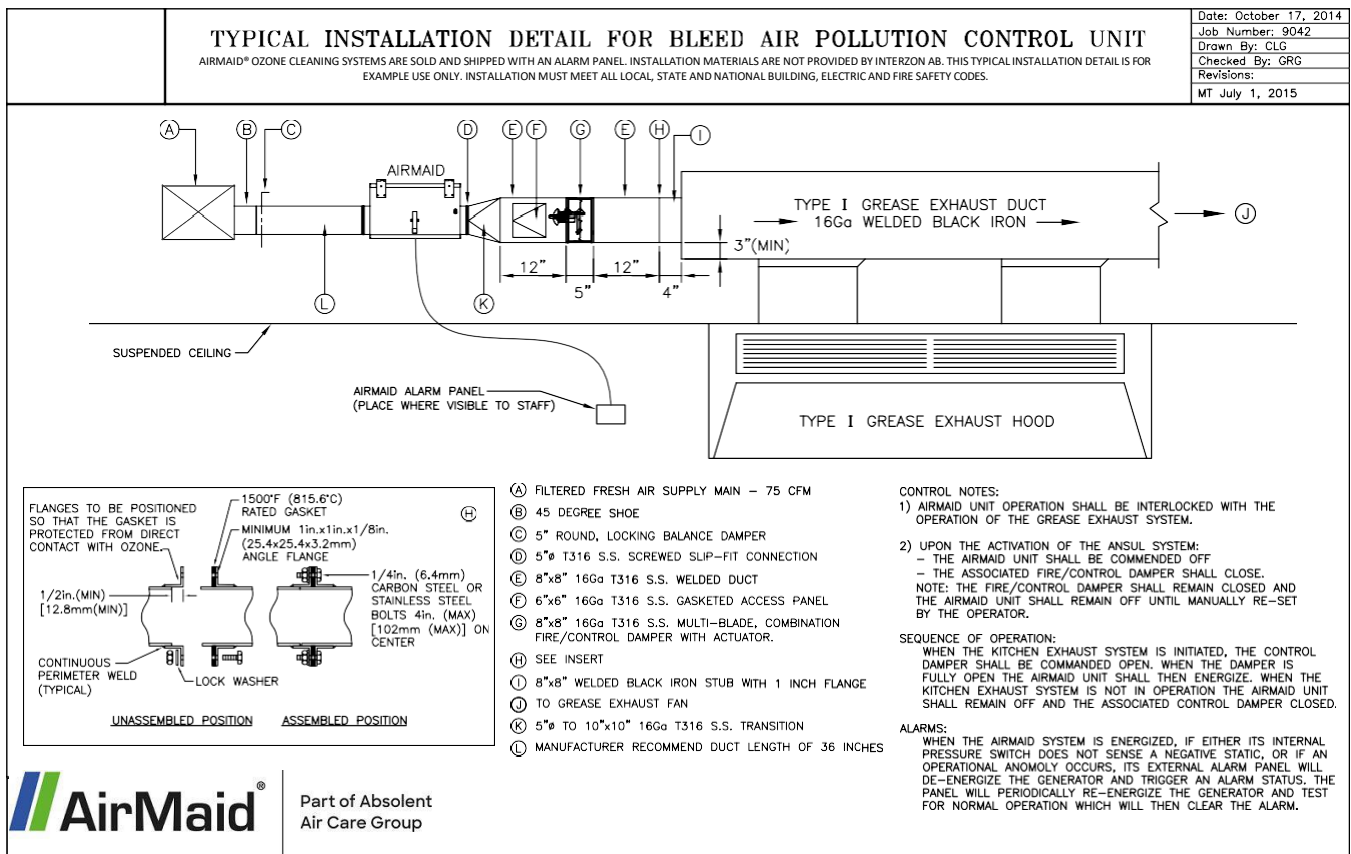
The document displayed below is available separately from your AirMaid® representative. NFPA 96 compliant, installed on the (clean air side) using make-up air to “fuel” the generator, installed before the fire damper.



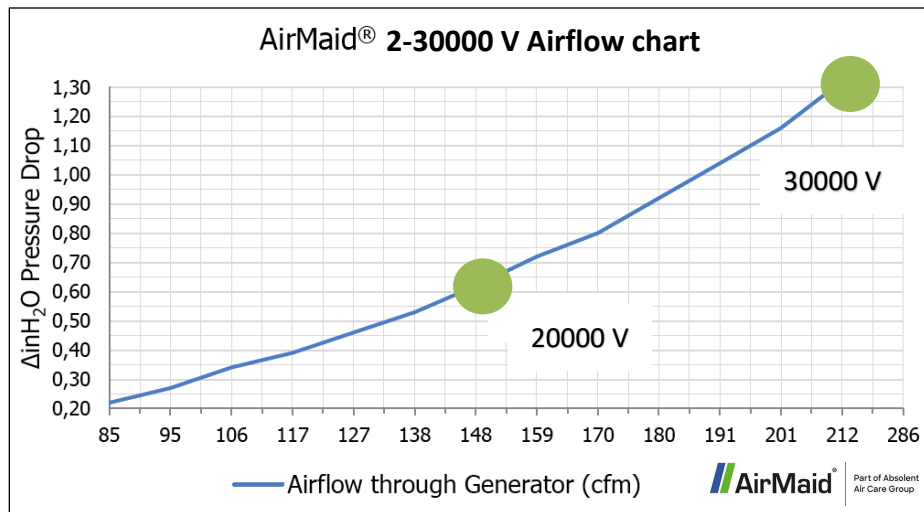
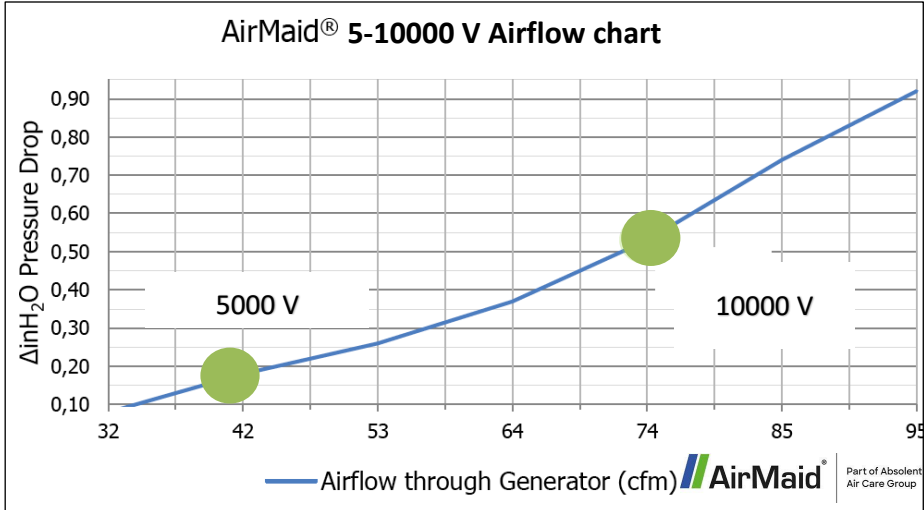
## Typical Installation Detail (2/2)

AirMaid® Ozone Cleaning Systems are sold and shipped with an Alarm Panel. Installation materials are not provided by Absolent CKV AB. The following typical installation detail is for example use only. Installation into a new or existing ventilation system must be properly exhausted to the outdoors and meet all local, state, and national building, electric, mechanical & fire safety codes.

The document displayed below is available separately from your AirMaid® representative. NFPA 96 compliant, installed on the (clean air side) using make-up air to “fuel” the generator, installed before the fire damper.



## Airflow Charts

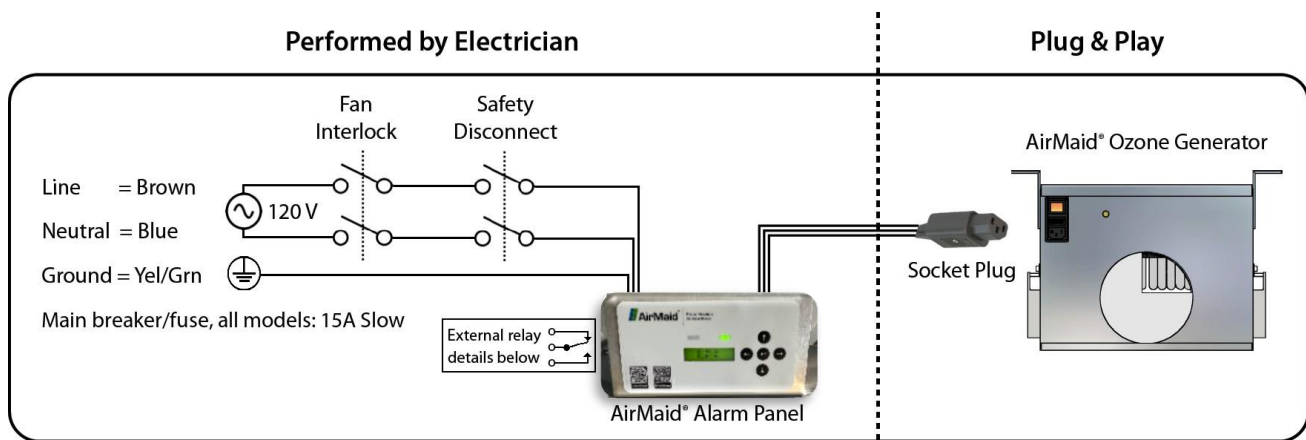


## Electrical Connection

The installation must be performed by an authorized electrician and follow national standards and regulations. The fan interlock displayed on the diagram below is mandatory. The purpose of the fan interlock is to shut off the main power to the generator when the exhaust fan is turned off. An all-pole safety disconnect with a break length of at least 3 mm must be installed as well. This switch is normally mounted nearby the Alarm Panel. The electrical requirements for the ozone generator are 120V AC and 60 Hz. Every generator must be connected to its own main breaker/fuse.

### Important Note!

Under no circumstances may the cable between the Alarm Panel and the Generator be tapped for any external electrical connections or control signaling.

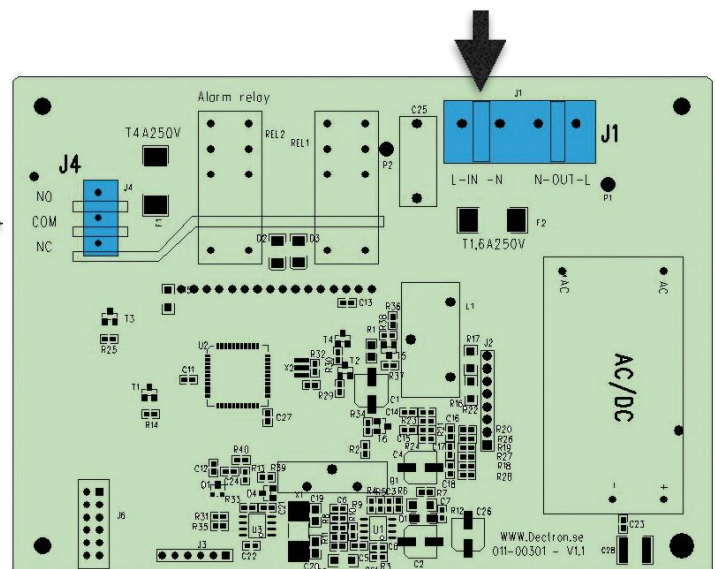


## External Relay Connection

If you desire to connect AirMaid® to an external monitoring or alarm system, you can accomplish this by connecting it to the external alarm terminal block within the AirMaid® Alarm Panel.

NO = Normally open  
COM = Common  
NC = Normally closed

Maximum load 120V/4A



### Important Note!

If the electrical cables are removed during installation, ensure the mains feed is properly reconnected to the "IN" L/N terminals.