



# ENVIROFLEX®

## International Inc.

FOR A HEALTHIER WORK ENVIRONMENT

### **MK2400** SELF-CONTAINED ELECTRONIC AIR CLEANERS



#### **ABOUT THE PRODUCT**

The MK2400 Air Cleaners are Industrial Self-Contained Electronic Air Cleaners that can be installed for general ventilation or ducted for source capture. They are highly effective for the removal of smoke, dust, fumes and oil mist down to a size of .01 micron. The units incorporate a life long filtration system that only needs to be washed. There are no throwaway filters.

The MK2400 Air Cleaners are engineered and manufactured under the strictest of quality control standards.

#### **PAYBACK PROGRAM**

##### **Lower Energy Costs**

The units dramatically lower the energy costs by recycling heated/cooled air as opposed to exhausting.

##### **Reduce Absenteeism and Turnover**

It has been well documented that by installing air cleaners you will reduce absenteeism and turnover by providing a healthier, safer work environment for all personnel. You will also protect office personnel from drifting, irritating pollutants.

##### **Increase Productivity and Accuracy**

Productivity and accuracy are improved due to a much more comfortable breathing environment.

##### **Prevent Contaminant Buildup on Surrounding Equipment**

Reduce maintenance time cleaning dust on the top of surrounding equipment.

##### **Meet Government Regulations**

Helps meet government indoor air quality regulations to avoid costly penalties.

#### **TYPICAL APPLICATIONS**

- Brazing
- Wire Drawing
- Gear Cutting
- Plasma Cutting
- Welding Smoke
- Rubber Grinding
- Induction Heating
- Cold Forming
- Heat Treating
- Machining
- Plastic Forming
- Wet Grinding
- Rubber Forming
- Dust
- Milling
- Oil Mist
- Quenching
- Soldering
- Threading

<b>Air Capacity</b>	2400 CFM (4075 m <sup>3</sup> /hr)
<b>Power</b>	120 Volts, 60 HZ, single phase, 10.8 amps
<b>Motor</b>	3/4 HP TEFC, ball bearings with thermal overload 120 Volts, 60 HZ, single phase, 10.8 amps Other voltages are optional
<b>Blower</b>	Belt driven, dual inlet, centrifugal, sealed ball bearings
<b>Power Supply</b>	Ionizer voltage is 10,000 Volts DC Collector cell voltage is 5,000 Volts DC The power supply voltage is adjustable for higher efficiency
<b>Control Panel</b>	The indicator light shows the high voltage is on. The Power Supply On/Off switch controls the high voltage. The Fan On/Off controls the fan voltage to dry off the cells after washing
<b>Power Supply Box</b>	The box protects the electronics from contaminant buildup. It is also removable
<b>Clean Air Discharge</b>	4-way adjustable air outlet louver
<b>Filter and Blower Access</b>	Fan housing and motor compartment have two access doors for easy servicing A separate door activates the safety interlock that services the collector cells Gaskets on doors to prevent air leakage
<b>Prefilters &amp; After filters</b>	(2) Prefilters & (2) after filters W=16" X L=20" X D=1" (W=40.6 CM X L=50.8 CM X D=2.54 CM)

# MK2400 SPECIFICATIONS

## Power Supply

The power supply is adjustable. It is preset for 5,000 volts DC for the collector cells and 10,000 volts DC to the ionizer.

## Switches

One switch turns the power supply on and off. The other switch turns the fan on and off.

## Indicator Light

This indicates we have high voltage from the power supply. The light should be on when operational.

## Ionizer

MK2400 has (2) Ionizers

Dimensions: W=16" X L=19.75" X D=2.625" (W=60.64 CM X L=50 CM X D=6.66 CM)

Weight: 7.8 lbs (3.5kg)

Tungsten Wires: 10

Rust-resistant satin coat steel

The ionizer creates a high-density electrical field to charge pollutants positive before entering the collector cell.

## Collector Cell

MK2400 has (2) collector cells

Cell dimensions: W=16"(40.64 CM) X L=20"(50.8 CM) X D=14.25"(36.19 CM) Weight: 25 lbs. (11.3 kg)

Plates: W=10.25"(26 CM) X L=18"(45.7 CM) X T=.025"(.0635 CM)

Collecting Surface Area: 120.3 square ft. (11.18 square meters)

Maximum Velocity Through Cell: 500 FPM (152.4 m/min)

Washable, corrosion-resistant aluminum collector cell never needs replacing. Captures welding fumes, oil mist, dust and other pollutants down to .01 micron in size.

## Prefilter and After Filter

MK2400 has (2) prefilters and (2) after filters

Dimensions: W=16"(40.6 CM) X L=20"(50.8 CM) X D=1"(2.5 CM)

Washable, multi-layered aluminum mesh collects agglomerated dust.

The after filter creates back pressure to spread the incoming air evenly over the cells. This increases the filter efficiency.

## Activated Carbon Filter (Optional)

MK2400 has (2) carbon filters

Dimensions: W=16"(40.6 CM) X L=20"(50.8 CM) X D=1"(2.5 CM)

Weight: 8lbs (3.9kgs)

The carbon filter removes most noxious odors and gases.

## Cabinet

18-gauge steel

## Mounting

Includes (4) 3/8" in U.N.C. captive weld nuts.

## Overall Dimensions

MK2400 W=34"(86.4 CM) X L=46"(116.8 CM) X H=27"(68.6 CM)

## Weight of Machine

275 lbs (124.7kg)

## Shipping Weight

325 lbs (127.4kg)

## Cleaning Solution

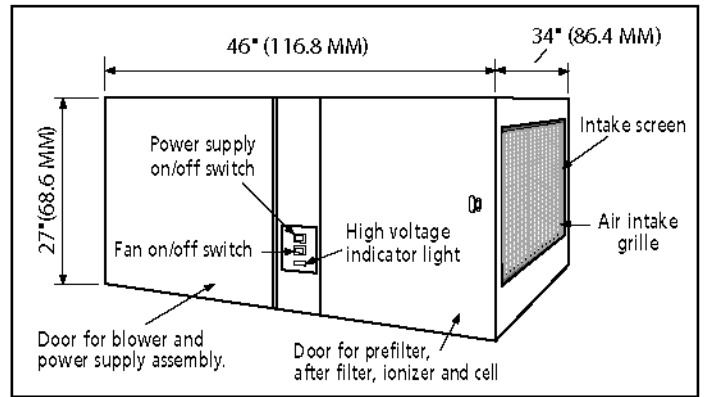
Precipiclean™ is available in 5 gallon (22.7L) containers

The Precipiclean™ is a heavy duty cleaner expressly for the removal of accumulated pollutants on the collector cell plates.

## Options Available

Flex Adapter or Hi-Velocity Intake Hood

**Certifications** CSA and UL approved.



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Enviroflex warrants all Air Cleaning products and systems for parts and workmanship for a period of one year from date of original purchase. This warranty does not apply to products subjected to any accident, alteration, abuse or misuse. Warranties on equipment not of seller's manufacture are limited to terms of warranty furnished by seller's suppliers. All specifications are subject to change without notice. Product may not be exactly as illustrated.

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