



# Point of Use Ionizing Blower

## MODEL 6422e

The Point of Use Ionizing Blower Model 6422e is the most efficient small blower of its kind for controlling static discharge in hard-to-reach areas. In the tight confines of process tools, ionization must be easy, cost-effective, but carry the same level of sophistication found in larger ionizers. The Model 6422e meets the challenge of cost and features that your process demands by delivering worry-free ionization.





The Model 6422e blower incorporates Ion's patented IsoStat technology, making it the most reliable blower of its kind. IsoStat technology is the only technology that can provide the guarantee of self-regulated balance.

## Features and Benefits

- Patented IsoStat® technology
- Self balanced; no calibration needed
- Smallest form factor available in steady-state DC ion emission blowers
- Innovative design offers fast discharge times in confined (point of use) areas
- 24 VDC or 24 VAC input
- Can connect directly to your process equipment's power source or to your wall power
- Facility Monitoring System (FMS) interface
- Faster response to ionization failure with notification through tool or facility monitoring system
- Operational failure alarm
- Provides visual notification of any operational failures
- U-bracket mounting
- Flush or angled mounting means the blower will reach constrained spaces



## Specifications

Point of Use Ionizing Blower Model 6422e	
<b>Input voltage</b>	24 VDC ( $\pm 10\%$ ), 6 watts max. or 24 VAC ( $\pm 10\%$ ), 50-60 Hz, 6 watts max.
<b>Output voltage</b>	5-6 kV at emitter points
<b>Indicators</b>	Green power LED and red alarm LED
<b>Ion emission</b>	Steady-state DC
<b>Emitter points</b>	Tungsten wire; internally shielded
<b>Airflow</b>	22 CFM, typical
<b>Discharge</b>	$\pm 1000$ -100V less than 4 seconds at 1 foot <sup>1</sup> (using 24 VAC)
<b>Balance</b>	$\pm 20$ V at 1 foot away
<b>Ozone</b>	<0.004 ppm, typical (24-hour accumulation)
<b>Mounting</b>	U-bracket, factory installed
<b>Operating temperature</b>	50–95°F (10–35°C)
<b>Humidity</b>	20–60% RH, non-condensing
<b>Dimensions</b>	<i>With bracket:</i> 4.95H x 4.10W x 2.48D in. (125H x 104W x 63D mm) <i>Without bracket:</i> 4.36H x 3.26W x 2.48D in. (111H x 83W x 63D mm)
<b>Weight</b>	<i>With bracket:</i> 12.7 oz (357g) <i>Without bracket:</i> 11.2 oz (314g)
<b>Warranty</b>	2-year warranty
<b>Certifications</b>	
Transformer 14-1320	
<b>Input voltage</b>	120 VAC $\pm 10\%$ , 50-60 Hz
<b>Output</b>	24 VAC, 60 Hz @ 450 mA, $\pm 5\%$
<b>Dimensions</b>	2.4H x 2.2W x 1.6D in. (61 x 56 x 41 mm)
<b>Certifications</b>	
Transformer 14-1330	
<b>Input voltage</b>	230 VAC $\pm 10\%$ , 50 Hz
<b>Output</b>	24 VAC @ 750 mA, $\pm 5\%$
<b>Dimensions</b>	2.8H x 2.5W x 1.9D in. (71H x 64W x 48D mm)
<b>Certifications</b>	
AC Adapter 14-1322	
<b>Input voltage</b>	120-240 VAC $\pm 10\%$ , 50/60 Hz
<b>Output</b>	24 VDC @ 400 mA
<b>Dimensions</b>	1.4H x 2.1W x 3.4L in. (36H x 53W x 86L mm)
<b>Certifications</b>	

<sup>1</sup> Tested in accordance with ANSI/ESD STM3.1-2006

## Enhanced Capabilities

An alarm LED on the front of the blower indicates a high voltage circuitry failure and a five-pin facility monitoring system (FMS) interface is accessible on the rear of the blower. The FMS interface provides a 4-20 mA current loop and relay output connection. Together with the 24 VDC input connection, the FMS output is situated on a convenient terminal block, designed for easy integration with your process equipment.



## Power Options

The Model 6422e blower may be powered by 24 VAC or 24 VDC, from power supplies or directly from process equipment to fit your application. For 100-120 VAC input power, use #14-1320, for 230 VAC use #14-1330, and for applications where DC input power is preferred, use #14-1322 (performance may be reduced with DC power).

## Ordering Information

<b>91-6422e</b>	Blower with alarm indicator light and FMS
<b>14-1320</b>	24 VAC 450 mA transformer
<b>14-1330</b>	24 VAC 750 mA transformer
<b>14-1322</b>	24 VDC 500 mA AC-DC adapter



### MKS, Ion Systems

1750 North Loop Road, Alameda, CA 94502  
 Tel: 510.217.0600 or 800.367.2452  
 Fax: 510.217.0484  
 info@ion.com  
 www.mksinst.com

DS-6422 - Ver. 3  
 © 2006-2007 MKS Instruments, Inc.  
 All rights reserved.