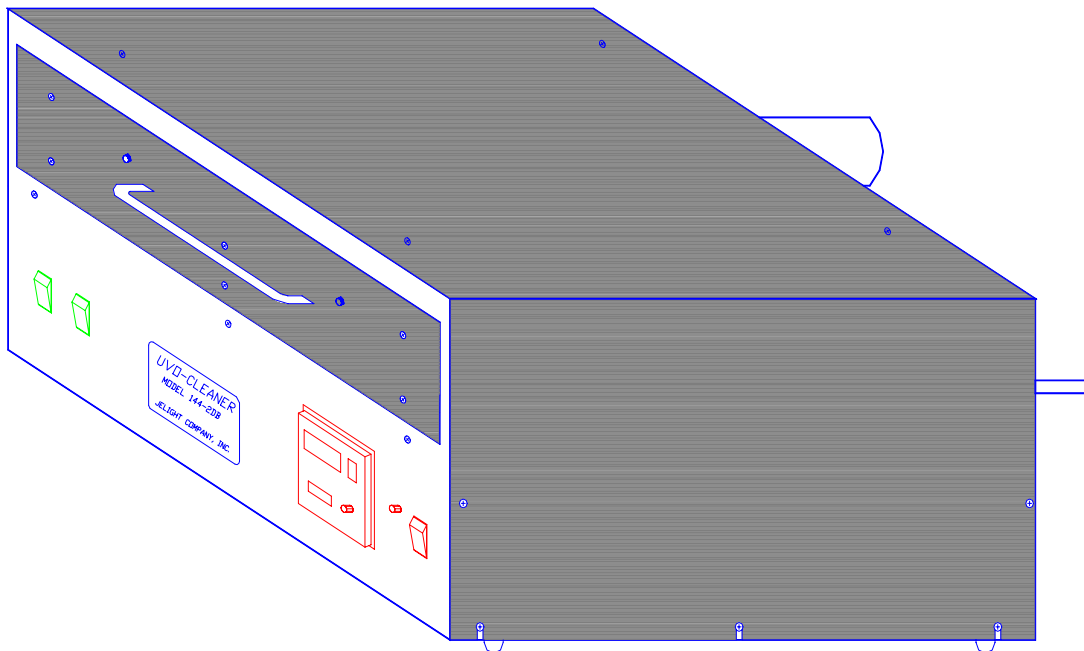


UVO-CLEANER⁷

MODEL 144-2DB

INSTRUCTION MANUAL



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UVO-CLEANER⁷

MODEL 144-2DB

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INTRODUCTION

The UVO-CLEANER⁷, Model 144-2DB produces near-atomically clean surfaces in less than one minute by utilizing the UV/Ozone cleaning method. This process effectively and thoroughly removes an assortment of organic contaminants from surfaces. These contaminants include human skin oils, silicone oils, solder flux, residues from wet cleaning processes or water residue, contamination absorbed during prolonged exposure to air, and many others.

For optimum results, the surfaces of the samples must be precleaned to remove contaminants such as dust and inorganic salts which cannot be changed into volatile products by oxidation. To maximize the cleaning rate, samples should be placed as close to the UV source as possible.

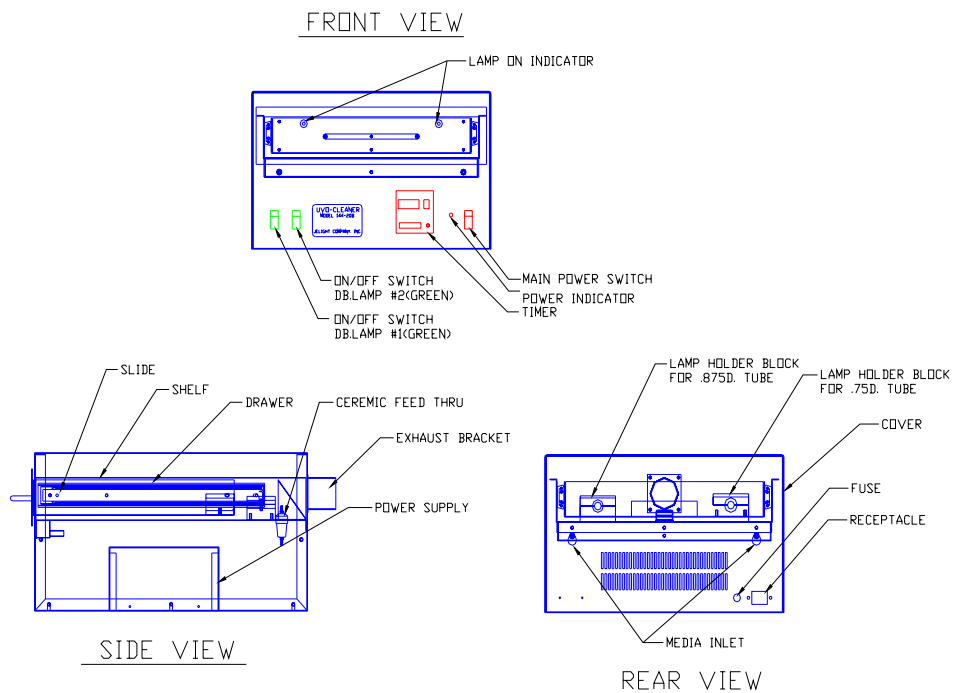


Figure 1

WARNING:

Potentially fatal voltages exist within this machine. Never remove the cover while the unit is plugged in to an electrical outlet.

Ozone is produced by this unit; thus, appropriate ventilation must be provided for the exhaust. Immediately deactivate the unit if ozone is detected.

The double bore lamp in this unit emits harmful UV radiation; under no circumstances is exposure permissible. Servicing must be done by qualified personnel.

DESCRIPTION

The UVO-CLEANER⁷, Model 144-2DB features a stainless steel cover, stainless steel drawer and base. Two media inlets allow utilization of different gases simultaneously or in sequence.

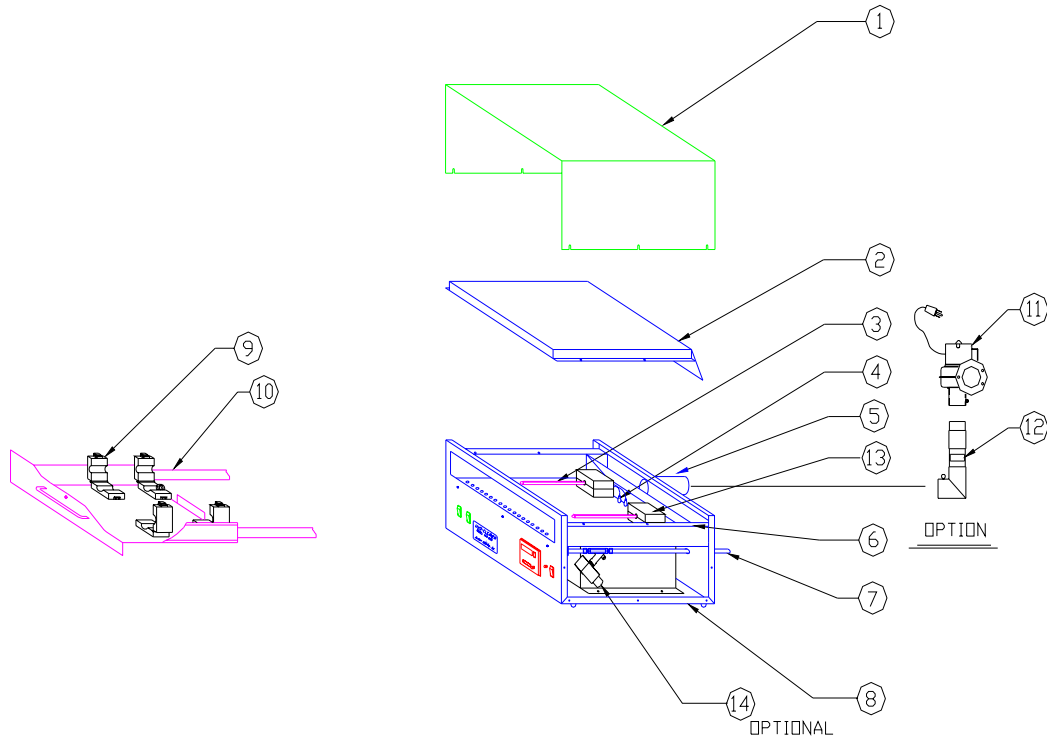


Figure 2

<p>1 Cover</p> <p>3 Double Bore Lamp</p> <p>5 2" Exhaust Port</p> <p>7 Media Inlets (2 pls.)</p> <p>9 Drawer</p> <p>11 Blower</p> <p>13 Lamp Holder</p>	<p>2 Lamp Cover</p> <p>4 Ceramic Feedthru</p> <p>6 Shelf</p> <p>8 Base</p> <p>10 Slide</p> <p>12 Ozone Killer</p> <p>14 Media Inlet Valve (2pls.)</p>
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LAMP ASSEMBLY

Please refer to figure 2 to match corresponding reference numbers below.

To assemble lamps in the unit, remove all #8-32 screws from housing cover(1). Remove cover.

Remove screws from lamp cover(2). Remove lamp cover.

Remove allen screws from lamp holders(13). Place lamps into lamp holders. Align the end of the lamp handle with the end of the holder.

Secure lamps with lamp holder's top and assigned allen screws.

Connect the lamp wires to the ceramic feed-thru(4) located on side of each lamp holder block.

Place lamp cover(2) over lamp assembly and secure with the #8-32 x .30 long screws.

While pushing the cover interlock switch, place the cover(1) on the unit.

Secure the cover with the #8-32 screws.

OPERATION

To operate the UVO-CLEANER⁷, Model 144-2DB, first install the double bore lamps. Refer to *Lamp Assembly* on Page 4. Once the main power cord is plugged into an electrical outlet, the main power switch can be turned on. The switch will light indicating power to the unit.

The exhaust of the Model 144-2DB must be attached to a suitable exhaust system capable of maintaining minus 1/2 to 2 inches of water static pressure while in operation. It is recommended that a flexible metal 2 inch duct be used to attach this unit to your exhaust system; a 2 inch PVC pipe may be substituted.

Should you require media other than air, use proper connectors to attach to the media inlet. Test for potential leaks. For best results, the combined maximum flow rate through the inlets should not exceed 0.5 liter per minute.

Open the unit's drawer and open the tube holder block. Place tube into the holder (refer to Figure 1 to match diameter of sample tube with that of the lamp holder block) allowing sample to rest on the O-ring. Close tube holder. Secure tube with the toggle latches located on the sides of the tube holder blocks.

Carefully close drawer. Once the drawer is closed, the safety interlock switch engages. If either the drawer is opened or the cover is removed during operation, the safety interlock mechanism automatically shuts off the UV light source(s) in use. Thus, accidental exposure to harmful UV radiation is prevented.

Switch on the lamp(s) that will be utilized in the cleaning cycle by setting the green lamp power switches to the on position. The 144-2DB allows the operator to use both lamps simultaneously or individually as needed.

To set the cleaning time, turn the knob to the right of the display until the desired time is indicated. Note that both lamps are controlled by the same timer. Push the start/stop button to activate the timer. The power indicator will light and the lamp in use will be indicated by the green indicator light on the lamp's corresponding power switch.

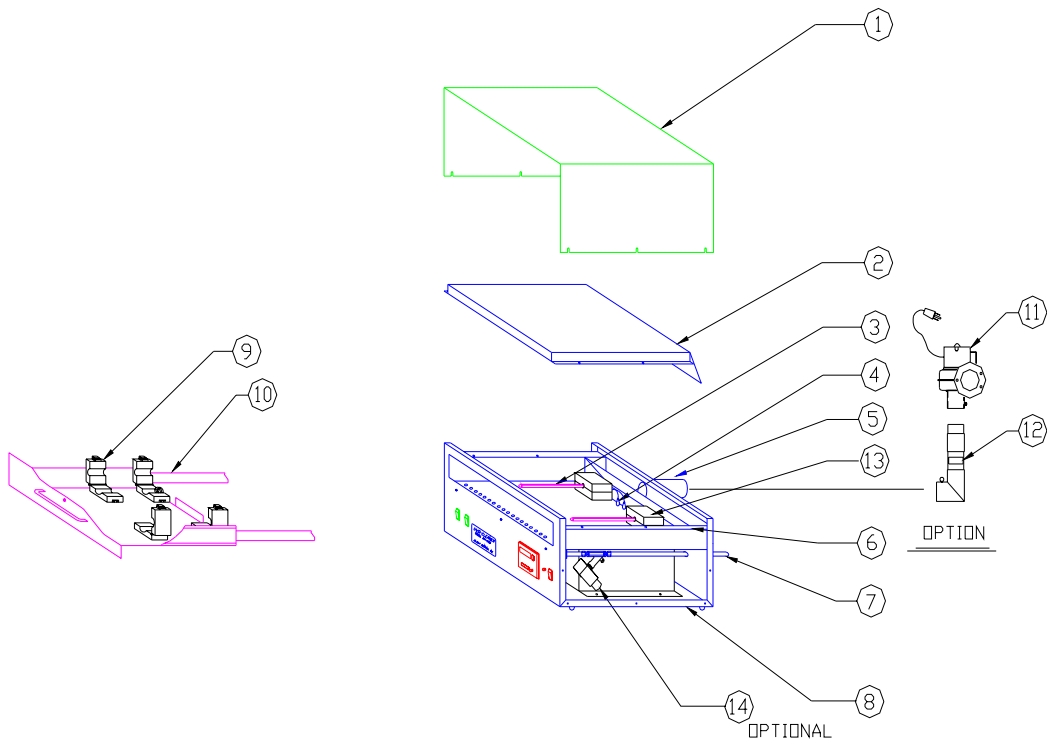
A clock built into the timer may be set by holding down the button with clock graphics, while turning the knob to the right of the display. It is functional when the unit is plugged in.

When the cleaning cycle is complete, the timer will sound an audible alarm and automatically extinguish the UV lamp. Allow five minutes to exhaust any traces of ozone in the chamber before opening the drawer of the unit.

MAINTENANCE

The maintenance of the UVO-CLEANER⁷, Model 144-2DB requires the user to remove and clean the lamp assembly once every 100 hours of operation.

Every 5,000 to 10,000 hours of operation, the double bore lamp must be removed and replaced.



- | | | | |
|-----------|------------------------------|-----------|----------------------------------|
| 1 | Cover | 2 | Lamp Cover |
| 3 | Double Bore Lamp | 4 | Ceramic Feedthru |
| 5 | 2" Exhaust Port | 6 | Shelf |
| 7 | Media Inlets (2 pls.) | 8 | Base |
| 9 | Drawer | 10 | Slide |
| 11 | Blower | 12 | Ozone Killer |
| 13 | Lamp Holder | 14 | Media Inlet Valve (2pls.) |

TROUBLE SHOOTING

SYMPTOM: Power To The Unit/Timer Does Not Function.

Check the power receptacle.

Check the fuse.

Check the cover & drawer interlock mechanism.

SYMPTOM: UV Indicator Does Not Light.

Check power indicator lamp.

Replace the UV lamp assembly.

If this does not solve the problem, contact Jelight.

SYMPTOM: Ozone Is Present Outside The Unit During Operation.

Check the exhaust connections.

Check the exhaust the unit is attached to.

SPECIFICATIONS

Model Number	144-2DB
Size(Max)	23.0" Long X 17" wide X 10.5" High
Power Source	AC 110 Volts, 60 Hz., 7 Amps
Lamp Type	Low Pressure Mercury Vapor Grid
Lamp Output	18,000 μW/cm⁵@ 254nm on lamp-s surface.

