

CAN I USE THE HAKKO HJ3100 TO EXTRACT PAINT FUMES AND AEROSOLS ?

Every fortunate soul who buys a Hakko HJ3100 receives with it, free of charge, an exquisitely written manual. Beginning on page 5 of this manual you will find the following pertinent information:

For maximum operator and workplace safety, as well as optimum performance, be sure to follow all safety, application and maintenance instructions and guidelines in this manual. Where material safety data sheets or other relevant information is available regarding the substances and equipment generating the fumes to be extracted, read them carefully and compare the data contained therein with the warnings and limitations in this manual.

DISCLAIMER.

American Hakko Products hereby disclaims all responsibility for any personal injury, property damage, fine, citation, or penalty imposed by any government or private entity resulting from any use, misuse or misapplication of this product; for any failure of the user to regularly maintain the product according to the instructions contained herein; or any failure of the user to adequately monitor fume extraction exhaust air and the ambient workplace air for the presence of harmful levels of gases, fumes and particulates.

COMPLIANCE WITH APPLICABLE ENVIRONMENTAL AND PERSONNEL SAFETY REGULATIONS IS THE SOLE RESPONSIBILITY OF THE USER.

WARNING.

FAILURE TO COMPLY WITH THE APPLICATION AND MAINTENANCE INSTRUCTIONS, FILTER REPLACEMENT SCHEDULES, MONITORING RECOMMENDATIONS AND SAFETY GUIDELINES GIVEN IN THIS MANUAL, OR WITH OTHER RELEVANT PRODUCT SAFETY INFORMATION SUCH AS MATERIAL SAFETY DATA SHEETS PROVIDED WITH THE SUBSTANCES AND EQUIPMENT GENERATING THE FUMES TO BE EXTRACTED MAY RESULT IN RISK OF SERIOUS INJURY, FIRE OR EXPLOSION.

SAFETY GUIDELINES.

WARNING

Fume extraction systems *are not to be used as substitutes for personal protective devices* such as respirators for removing substances such as carbon monoxide, methane, ethylene, acetylene and other potentially hazardous or noxious gases. Failure to use such personal protective devices may result in serious injury or death. If in doubt, consult your industrial hygienist or American Hakko Products.

For safe and effective performance, American Hakko recommends these guidelines be followed:

1. HEPA filters - hazardous particulate matter

HEPA (High Efficiency Particulate Air) filters will become loaded with particulates during normal operation. It must be replaced at regular intervals to ensure proper operation. The level of use, and the amount and composition of the contaminates peculiar to a given application, will dictate the frequency of replacement. As the filter becomes loaded, air flow through the system will be reduced; this will eventually become noticeable to operators at the several stations being serviced.

The exhaust air from the Hakko HJ3100 and the ambient air in the workplace should be monitored, using appropriate and adequate measuring and detection devices, to guarantee compliance with applicable OSHA and NIOSH regulations..

2. Activated carbon filters.

The standard filter used in the Hakko HJ3100 contains an activated carbon element built into the filter. It, too, will become saturated with adsorbed contaminants. The activated carbon portion of the main filter unit is designed to last the life of the main HEPA filter; however, if the fumes being extracted are other than soldering flux fumes, measuring the exhaust air for the presence of such contaminants will indicate when this portion of the filter is depleted.

Hakko also offers an activated carbon filter cartridge for applications where odor removal is the prime consideration. This filter should be used with a pre-filter, to keep particles out of the main filter.

Both carbon filters have an adsorption rating of 80-85%.

3. Pre-filters.

The pre-filter is a treated fiberglass pad, rated at 86% arrestance. It removes coarse particles from the intake air. Because it traps these particles before they can reach the main HEPA/carbon filter, it will become clogged far more rapidly. It will require more frequent replacement than will the main filter; its useful life depends upon use and the nature of contaminants being removed.

4. Flammable vapors and gases.

If flammable vapors or gases (e. g. isopropyl alcohol used for cleaning) are present in the workplace air, even in small concentrations, they will be adsorbed by the filters. The user has the responsibility of ensuring that such vapors or gases do not constitute a personnel hazard.

- DANGER! -

**NEVER USE THE HAKKO HJ3100 TO EXTRACT FUMES FROM HIGHLY FLAMMABLE LIQUIDS AND GASES!
THERE IS A SERIOUS RISK OF SEVERE INJURY OR DEATH DUE TO EXPLOSION OR FIRE.**

Certain airborne contaminants, when in contact with activated carbon, can undergo chemical reactions resulting in heat. The Hakko HJ3100 MUST NOT be used to extract fumes from these substances.