

CHIPQUIK®

INSTRUCTION MANUAL

FOR

**CQ-FE-1
FUME EXTRACTOR**

INTRODUCTION

Thank you for purchasing the CHIPQUIK® Fume Extractor CQ-FE-1. The benchtop fume absorber is a convenient and space saving method of removing noxious fumes from the work environment. This product is designed for use on the factory floor, in R&D or by a hobbyist. It provides an economical and efficient method to improve workplace conditions and help eliminate headaches, nausea and eye irritations often associated with exposure to solder fumes.

Flux is an integral part of the soldering process to prepare the work surface. Composed of Rosin-resin and mixed with an activator (halogen organic agent) that, as the temperature increases, generate noxious components such as salicylic acid and pinene commonly seen as smoke rising from the work area.

High content rations of resin generate phenol (C_6H_5OH) and the activators can emit hydrogen chloride (HCL) or other compounds. The US government has occupational hazard standards controlling the permissible amounts of such compounds in the work area and the CQ-FE-1 when used properly, helps to meet those standards.

The CQ-FE-1 is developed with a high-performance fan and an easy to replace activated carbon filter. The filter is made by joining specific foam with refined activated carbon. The activated carbon has a surface area of $1250m^2/gram$ and the total weight of the filter is 500 grams/meter square. The dust collection efficiency of the filter is 30%, while the carbon filter can absorb up to 30% of its carbon weight in noxious components.

Please note this product is not designed for use in life support appliances, devices, or systems where malfunction of the product can reasonably be expected to result in personal injury.

PACKAGE CONTENTS

Carefully unpack and remove the contents. If any of the following items are missing or damaged, please contact CHIPQUIK directly at www.chipquik.com

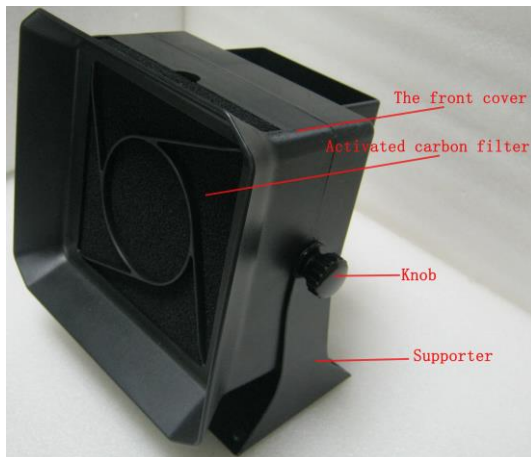
- CQ-FE-1 Benchtop Fume Absorber
- 3*Replacement filters
- User manual

SPECIFICATIONS

Model	CQ-FE-1 Fume Extractor
Input	100-240VAC 50Hz/60Hz
Fuse	F0.315A/20mm
Output	7W
Figure Dimension	182*136*200mm (W x D x H)
Weight (Unit only)	1168 grams (2.57 lbs)
Maximum Air Volume	95-115CFM
Filter(Size/Weight)	130mm ² /12g

CQ-FE-1 Fume Absorber at a Glance

1. Front side



2. Back side



OPERATION INSTRUCTIONS

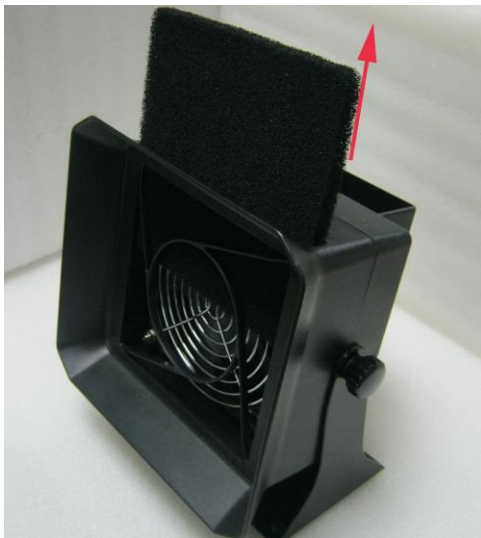
1. Ensure that the working voltage matches your power supply prior to use.
2. Plug the mains lead into a power outlet and flip the power switch.

3. Adjust the Fume Absorber angle depending on the distance you desire by loosening the knob on both sides of the housing and then tilt to the desired location.
4. Re-tighten once you find the desired angle ensuring that you do not over tighten.

INSTALLING & REPLACING THE CARBON FILTER

Remove the plastic bag from the filter and place the filter into the opening. Replacing the old activated filters follows much the same procedure. Under normal operating conditions the filters should be replaced once a month or when excessive dust has obviously adhered to or discolored the filter. Failure to regularly change the filter will directly affect the absorption capacity and effectiveness of the Fume Absorber

Figure:



FILTER DISPOSAL

Used filters should be bagged and tied before disposal.

SUPPORT

Should you encounter problems with the installation of the device, please follow these steps:

1. Ensure that the unit is plugged into the main supply.
2. Ensure that there is nothing obstructing the fan from rotating.
3. Re-read the manual.
4. Contact CHIPQUIK directly at www.chipquik.com for support.