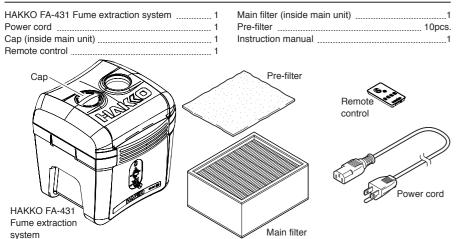
MAK HAK(0 FA-431 FUME EXTRACTION Instruction Manual

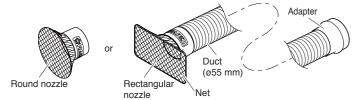
Thank you for purchasing the HAKKO FA-431 Fume Extraction system Please read this manual before operating the HAKKO FA-431. Keep this manual readily accessible for reference.

1. PACKING LIST AND PART NAMES Please check to make sure that all items listed below are included in the package.



Duct set (not included)

Duct set (Duct / Adapter / Rectangular nozzle or Round nozzle / Net)



2. SPECIFICATIONS

HAKKO FA-431

| Power Consumption | 110W | | | |
|----------------------|-----------------------------|------------------------|------------------------|---------------------------------------|
| Suction Capacity *1 | High | Medium | Low | *1 When using 2 ducts |
| | 4.7m ³ /min | 3.7m ³ /min | 2.8m ³ /min | * Specifications and design are subje |
| Filtering Efficiency | 97% (≧ 0.3μm) | | | change without notice. |
| Duct diameter | ø55 mm | | | |
| Dimensions | 330(W) x 366(H) x 343(D) mm | | |] |
| Weight | 7.2 kg | | | |

Electrostatic Protection

This product includes such features as electrically conductive plastic parts and grounding of the unit as measures to protect the device to be soldered from the effects of static electricity. Be sure to observe the following instructions:

1. The plastic parts are not insulators, they are conductors. When making repairs or replacing parts, take sufficient care not to expose live electrical parts or damage insulation materials.

2. Be sure to ground the unit during use

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HAKKO CORPORATION

HEAD OFFICE

4-5 Shiokusa 2-chome Naniwa-ku Osaka 556-0024 JAPAN TEL:+81-6-6561-3225 FAX:+81-6-6561-8466

| nu | J.//WWW.Makko.com | E-mail.sales@nakko.cor |
|-----|-------------------------|------------------------|
| 0١ | /ERSEAS AFFIL | IATES |
| U.S | A.: AMERICAN HAKKO | D PRODUCTS, INC. |
| TEI | · (661) 204-0000 EAX- (| 661) 204-0006 |

- TEL: (661) 294-0090 FAX: (661) 294-0096 Toll Free (800)88-HAKKO
- http://www.bakkousa.com HONG KONG: HAKKO DEVELOPMENT CO., LTD. TEL: 2811-5588 FAX: 2590-0217 http://www.bakko.com.bk
- E-mail:info@
- SINGAPORE: HAKKO PRODUCTS PTE., LTD. TEL: 6748-2277 FAX: 6744-0033 http://www.hakko.com.sg E-mail:sales@hakko.com.sg

Please access to the following address for the other Sales affiliates

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3.WARNINGS, CAUTIONS, NOTES AND EXAMPLES

Warnings, cautions and notes are placed at critical points in this manual to direct the operator's attention to significant items. They are defined as follows:

- MARNING: Failure to comply with a WARNING may result in serious injury or death. A CAUTION : Failure to comply with a CAUTION may result in injury to the operator, or damage to the items involved.
 - NOTE : A NOTE indicates a procedure or point that is important to the process being described.

MARNING

- Do not absorb combustible, explosive or corrosive gas.
- Store the fume extraction unit in a dry place.
- Do not block the exhaust vent of the fume extraction unit.
- Turn the power off when not in use, or left unattended.
- Turn the power off when changing parts or storing the HAKKO FA-431.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.

To prevent accidents or damage to the HAKKO FA-431, be sure to observe the followings:

A CAUTION

(Fig.1)

Be sure the duct is

facing in the

proper direction

during assembly

①Insert the nozzle

Turn the nozzle clockwise.

until it stops

- Use only genuine HAKKO replacement parts.
- Do not operate the fume extraction without the filter; otherwise it may cause the unit to malfunction.
- Hold the plug when inserting or removing the cord in/from the outlet
- Do not allow the HAKKO FA-431 to become wet, or use it with wet hands • While using the HAKKO FA-431, don't do anything which may cause bodily harm or physical damage

4. OPERATION

Set the filter

- 1. Open the upper cover and then remove the plastic bag from the main filter
- 2. Put the main filter on the main unit. Set the filter with the arrow pointing down (as shown in the illustration)

3. Fit the pre-filter on top of the main filter.

A CAUTION

Be sure the pre-filter lies flat and completely covers the top of the main filter with no gaps.



Attach the duct

- A. How to attach duct set
- 1. Refer to Figure 1(right), and attach the nozzle and adapter to the duct. Insert the nozzle and adapter until it stops, turn the nozzle clockwise. Make sure the nozzle and adapter are firmly attached.

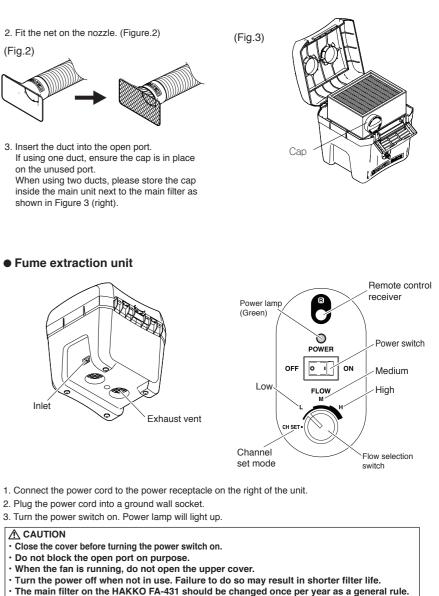
▲ CAUTION Twist the nozzle tight enough to avoid

coming off.

4. OPERATION



on the unused port.



Pre-filter

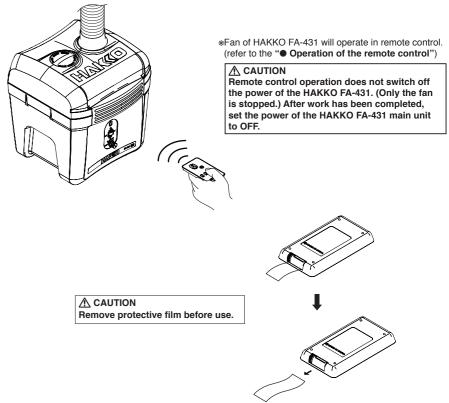
Main filta

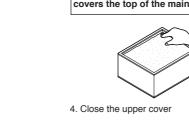
downward

(facing the arrow

▲ CAUTION

*Adjust the flow suitable for working environment by using flow selection switch.

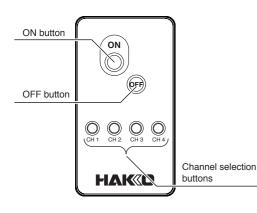




Continued use after the replacement period may result in malfunction.

• Operation of the remote control

HAKKO FA-431 can be operated using the remote control.



The remote control has the following buttons:

ON button

Starts the fan of the HAKKO FA-431.

OFF button

Stops the fan of the HAKKO FA-431.

- Channel selection buttons (CH1 to CH4)
- Sets the channel of the remote control to the same channel as the HAKKO FA-431 main unit. When one of the channel selection buttons (channels CH1 to CH4 are selectable) is held pressed together with the OFF button for 2 seconds or longer, sets the channel of the remote control itself to the pressed channel.
- *When the channels of the remote control and the HAKKO FA-431 are the same, pressing the remote control's ON button will cause the fume extractor to operate. (Both units are initially set to channel CH1.)

How to set the channel

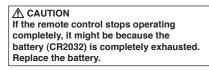
Example : Setting to channel 3

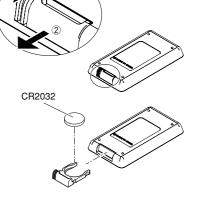
- 1. Set the flow selection switch of the HAKKO FA-431 to CH SET.
- 2. While holding the OFF button of the remote control pressed, press CH3 and hold both buttons pressed for approximately 2 seconds.
- 3. When channel setting has been completed, the LED on the main unit will blink twice and the buzzer will sound the same number of times as the set channel.

▲ CAUTION

If the above procedure is performed without setting the main unit's flow selection switch to CH SET, only the channel of the remote control will be changed and operation by remote control cannot be performed. If this occurs, perform the channel setting procedure again.

*When using multiple HAKKO FA-431 units, all fume extractors set to the same channel as the remote control will operate when the remote control is used. Operation of fume extractors according to the application can be performed by changing the channel setting of the fume extractors as necessary.





ssed for approx. 2 sec.

6) J

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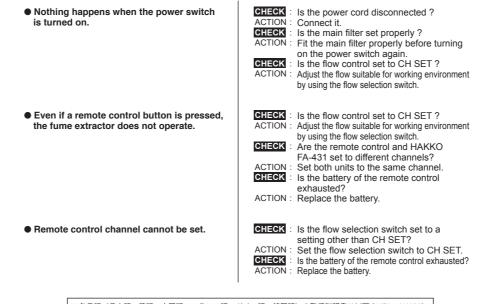
5. MAINTENANCE

Performing proper and periodic maintenance extends the product life. Wear of the product will differ depending on work environment, the quality and quantity of the solder and flux. Apply the following service procedure as dictated by the conditions of the usage.

• Filter replacement timing

NOTE: When replacing the filter, please be performed in a state in which the fan has stopped.

6. TROUBLE SHOOTING GUIDE

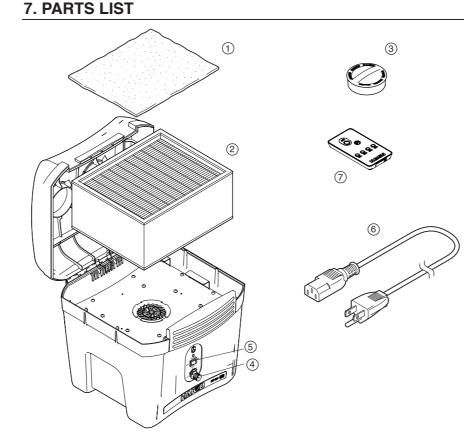


※各言語(日本語、英語、中国語、フランス語、ドイツ語、韓国語)の取扱説明書は以下のURL、HAKKO Document Portalからダウンロードしてご覧いただけます。 (商品によっては設定の無い言語がありますが、ご了承ください)

*各國語言(日語,英語,中文,法語,德語,韓語)的使用説明書可以通過以下网站的HAKKO Document Portal 下載參閱 (有一部分的產品沒有設定外語對應,請見諒)

(H) Instruction manual in the language of Japanese, English, Chinse, French, German and Korean can be downloaded from the HAKKO Document Portal. (Please note that some languages may not be available depending on the product.)





7. PARTS LIST

●HAKKO FA-431

•••

| tem No. | Part No. | Part Name | Specifications | |
|------------|----------|--|-------------------|--|
| 1 | A5034 | Pre-filter | 10 pcs. | |
| 2 | A5033 | Main filter | | |
| 3 | B3619 | Сар | | |
| 4 | B1486 | Knob | | |
| 5 | B2852 | Power switch | | |
| 6 | B2421 | Power cord, 3 wired cord but no plug | 220 - 240V | |
| | B2422 | Power cord, 3 wired cord & BS plug | India | |
| | B2424 | Power cord, 3 wired cord& European plug | 220V KTL, 230V CE | |
| | B2425 | Power cord, 3 wired cord & BS plug | 230V CE , U.K. | |
| | B2426 | Power cord, 3 wired cord & Australian plug | | |
| | B2436 | Power cord, 3 wired cord & Chinese plug | China | |
| | B3508 | Power cord, 3 wired cord & American plug (B) | | |
| | B3550 | Power cord, 3 wired cord & SI plug | | |
| | B3616 | Power cord, 3 wired cord & BR plug | | |
| | B3641 | Power cord, 3 wired cord & American plug (U) | U.S.A. | |
| \bigcirc | C5035 | Remote control | | |

| Option | | | | | |
|----------|----------|--------------------------------------|---------------------------------|--|--|
| Item No. | Part No. | Part Name | Specifications | | |
| 1 | C1571 | Duct set / | Duct (1) / Adapter (1) | | |
| | | Rectangular nozzle | Rectangular nozzle(1) / Net (1) | | |
| 2 | C1572 | Duct set / | Duct (1) / Adapter (1) | | |
| | | Round nozzle | Round nozzle (1) / Net (1) | | |
| 3 | B3642 | Duct | φ 55 mm | | |
| 4 | B3620 | Adapter | | | |
| 5 | B3621 | Adapter | For 3 inch | | |
| 6 | B3622 | Rectangular nozzle | | | |
| 7 | B3623 | Round nozzle | | | |
| 8 | B2418 | Bench top hood | | | |
| 9 | B3625 | Net | 5 pcs. | | |
| 10 | B2410 | Duct | For 3 inch (φ 75 mm) | | |
| (1) | B2416 | Duct band | Set of 2 | | |
| 12 | A5035 | Sub-filter | 5 pcs. | | |
| 13 | A5036 | Sub filter / for rectangular nozzle | 20 pcs. | | |
| 14 | A5037 | Sub filter / for round nozzle | 20 pcs. | | |
| 15 | B5146 | Filter case / for rectangular nozzle | | | |
| 16 | B5147 | Filter case / for round nozzle | | | |

