

Air-Purifying Smoke Absorber



- · Powerful yet quiet suction
- Freestanding flexible ducts facilitate production changeovers
- Three airflow levels are selectable according to working environments.



Duct set

Duct set

Packing List

FA-430

Main unit, Power cord, Main filter, Pre-filter (10 pcs), Instruction manual

*Ducts are optional parts.

Specifications

Model No.	FA-430	
Power consumption	120 W	
Noise level*	50 dB	
Max. suction capacity	With single duct: Max. 4.1 m ³ /min. (145 cFm) With two ducts: Max. 4.7 m ³ /min. (167 cFm)	
Filtering efficiency**	99.97% 0.3 μm (LOW or MEDIUM mode) 99.96% 0.3 μm (HIGH mode)	
Static pressure	1500 Pa	
Duct set (sold separately)***	Duct length: ø55 mm × 1.2 m (ESD safe)	
Dimensions	330 (W) × 366 (H) × 343 (D) mm	
Weight****	7.5 kg	

Measured at a distance of 1 m from the face of the unit in an anechoic room.
 An initial value of the collection efficiency based on a counting method for airborne dust collected by a single plate of filter (unfolded)

*** Nets in duct sets are not protected against electrostatic discharge. **** Without cord



Option

C1571

C1572



With rectangular type

nozzle

With round type

nozzle

No.C1571

No.C1572

Features



Filter replacement notification function

Flexible ducts and compact body for perfect placement





Aerosol particle diameter range

* During LOW and MIDDLE modes



HAKO FA-400 SAFE

Desktop Type Smoke Absorber



- Desktop solder smoke absorber that can be mounted horizontally or vertically
- An optional arm stand makes a third mounting position available.

2 Way Plus Placement

Vertically mounted:



Using a stand:







Packing List

FA-400 Unit,

Unit, Filter, Instruction manual

Specifications		
Model No.	FA-400	
-	50 Hz: 22 W	
Power consumption	60 Hz: 18 W	
	50 Hz: 48 dB	
Noise level*	60 Hz: 51 dB	
	Vertically: 1.0 m3/min. (50 Hz), 1.1 m3/min. (60 Hz)	
Max. suction capacity**	Horizontally: 0.4 m³/min. (50 Hz), 0.5 m³/min. (60 Hz)	
A. 1 1	Vertically: 1.0 m/s (50 Hz), 1.1 m/s (60 Hz)	
Air velocity	Horizontally: 2.6 m/s (50 Hz), 2.9 m/s (60 Hz)	
Filter size	130 (W) × 130 (H) × 10 (D) mm	
Dimensions	166 (W) × 212 (H) × 113 (D) mm	
Weight***	0.91 kg	

Measured at a distance of 1 m from the face of the unit

** Measured with a filter present *** Without cord

Option

Part No.	Name	Specifications
C1568	Arm stand	With knobs

Smoke Absorber

Smoke Absorber



External Air Compressor Type Smoke Absorber



C RoHS

- · External air compressor type soldering smoke absorber
- · Three inner filters attached on different levels absorb soldering smoke.
- Up to 2 soldering irons can be connected to one unit.

Compatible Soldering Station for HAKKO 490



HAKKO FX-888D

HAKKO FX-951

HAKKO FX-950

HAKKO FX-838

HAKKO FM-203

HAKKO FM-206

Specifications

Model No.	490	
Noise level	39 dB	
Working pressure	392 to 686 kPa (4 to 7 kgf/cm ²)	
Air consumption	40 L/min. (490 kPa)	
Suction flow	23 L/min. (490 kPa)	
Dimensions	ø120 × 200 (H) mm	
Weight*	1.5 kg	
* Linit only		

Packing	List	

490	Unit, Absorption pipe set, Instruction manual
* • • • • • • • • • • • • • • • • • • •	

A second soldering iron can be attached to HAKKO 490 by purchasing an additional absorption pipe set.

** Unit only ** Use compressed air; no power supply is necessary.

HAKO442B

Wrist Strap

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442B Wrist band, Grounding wire, Cord helper, Instruction manual
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C RoHS

- This antistatic wrist strap prevents the human body from becoming charged with static electricity.
- The stretchable band is easy to adjust.
- A conductive thread is used for the band lining.

Cord Helper

- 1.Insert the grounding wire into the ring of the cord helper.
- 2.Clip the cord helper to clothing as shown here.

Specifications

Part No.	442B-01	442B-02
Color	Blue	
Grounding wire	1.5 m	2.5 m

Wrist Strap Tester

C E

• Easy-to-use, quick-response tester for wrist straps

Features

Can be used anywhere to quickly and easily check a variety of grounding systems.

Packing List

Unit, 006P 9 V Manganese dry battery (for trial), Grounding wire, Instruction manual

Specifications

Model No.	498	
Power supply	006P 9 V dry battery	
Indication: LOW	R < 800 kΩ	
Indication: GOOD	800 k $\Omega \le R \le$ 9 M Ω	
Indication: HIGH	R > 9 MΩ	
Battery life	Approx. 50,000 times	
Grounding wire	2.5 m	
Operating environment	0 to 40°C, 20 to 90%RH (without condensation)	
Dimensions	80 (W) × 40 (H) × 117 (D) mm	
Weight*	150 g	

* Including battery

Soldering Iron Thermometer

- Tip thermometer that provides reliable temperature control of soldering iron tips
- Compact design minimizes your workspace and enables you to easily carry it around.
- Incorporating an extremely fine sensor that has high temperature reactivity.

SOLDERING TESTER FG-101

Soldering Iron Tester

- Tip temperature, leak voltage, and tip-toground resistance can be easily measured with high accuracy.
- Soldering iron tester useful for daily maintenance of station-type soldering irons

What is leak voltage and tip-to-ground resistance?

Leak voltage

Leak current is the current that leaks from the tip to a board or device. Leak voltage is a specific measurement of the level of this current. The leakage can adversely affect delicate

devices, so it is necessary to check leak voltage on a daily basis.

Tip-to-ground resistance

Most leak current flows from the tip via the ground wire to the outlet ground terminal, and is prevented from affecting the device. Because of this, tip-to-ground resistance is another important issue that must be checked daily.

Common Features of FG-100 and FG-101

Dimensional measurement

MAX HOLD function

When the "MAX HOLD" button is pressed, "MAX HOLD" is displayed and the highest tip temperature is held on the display.

Procedure for Measuring the Soldering Tip Temperature

• Typical measuring point for Shape B, I and D (Measure at the center of the tin coated area)

 Typical measuring point for Shape BC and C which are tinned flat only.

Option / Replacements

Part No.	Name	Specifications
A1310	Temperature probe	For solder bath and pot
C1541	Temperature probe	For hot air
A1556	Sensor A	-
A1557	Sensor B	-
191-212	Sensor/10 pcs	-

Packing List

FG-100	Unit, 006P 9 V Manganese dry battery (for trial), Instruction manual, Sensor (10 pcs)
FG-101	Unit, Fuse, Conduction wire, Sensor (10 pcs), Multi-adapter, European adapter, Ground clip, Power cord, Instruction manual

Specifications

Model No.	FG-100	
Power supply	006P 9 V dry battery	
Temperature resolution	1°C	
Temperature measurement range	0 to 700°C	
Temperature precision	$\pm 3^{\circ}$ C (300 to 600°C) $\pm 5^{\circ}$ C (other than above)	
Temperature sensor	K (CA) type thermocouple	
Display*	Besides measured temperatures, display indications include the following: Battery low alarm "MAX HOLD" is displayed in the lower right of the LCD.	
Operating environment	0 to 40°C, 20 to 90%RH (without condensation)	
Environmental conditions	Applicable rated pollution degree 2 (according to IEC/UL 61010-1)	
Dimensions**	68 (W) × 140 (H) × 38 (D) mm	
Weight***	115 g	

* When the battery low alarm appears, be sure to replace the battery. Failure to do so will result in incorrect temperature measurements.
** Evelopide protucione

** Excluding protrusions *** Excluding battery

Model No.	FG-101	
Power consumption	2.8 W	
Temperature resolution	1°C	
Temperature measurement range	0 to 700°C	
Temperature precision	$\pm 3^{\circ}$ C (300 to 600°C) $\pm 5^{\circ}$ C (other than above)	
Temperature sensor*	K (CA) type thermocouple	
Voltage resolution	0.1 mV	
Voltage measurement range	0 to 40 mV (CA)	
Voltage precision	± (5% of reading + 1 digit)	
Resistance resolution	0.1 Ω	
Resistance measurement range	0 to 40 Ω	
Resistance precision	± (5% of reading + 1 digit)	
Display**	LCD: 3 1/2 digits Burnout: -1 MAX HOLD: "MAX HOLD" is displayed in the lower right of the LCD.	
Operating environment	0 to 40°C, 20 to 90%RH (without condensation)	
Environmental conditions	Applicable rated pollution degree 2 (according to IEC/UL 61010-1)	
Dimensions	200 (W) × 50 (H) × 120 (D) mm	
Weight***	1 kg	
* The temperature sensor (No.191-212 or No.191-212C) can only be used to measure		

 The temperature sensor (No.191-212 or No.191-212C) can only be used to measure temperatures below 500°C. To measure higher temperatures, use an applicable temperature probe.
 ** When a sensor is not attached or it burns out, the Burnout (-1) alarm symbol is

* When a sensor is not attached or it burns out, the Burnout (-1) alarm symbol is displayed. The same symbol is also displayed when a temperature outside the measurement range is detected.

*** With power cord