

# Weller

Supplied by  
**Grove Sales**  
Quality Products - Reliable Service - Est 1990



DE Originalbetriebsanleitung  
EN Translation of the original instructions  
ES Traducción del manual original  
FR Traduction de la notice originale  
IT Traduzione delle istruzioni originali  
PT Tradução do manual original  
NL Vertaling van de oorspronkelijke gebruiksaanwijzing  
SV Översättning av bruksanvisning i original  
DK Oversættelse af den originale brugsanvisning  
FI Alkuperäisten ohjeiden käännös  
GR Μετάφραση του πρωτοτύπου των οδηγιών χρήσης  
TR Orijinal işletme talimatı çevirisi  
CZ Překlad původního návodu k používání  
PL Tłumaczeniem instrukcji oryginalnej  
HU Eredeti használati utasítás fordítása  
SK Preklad pôvodného návodu na použitie  
SL Prevod izvornih navodil  
EE Algupäraste kasutusjuhendi tõlge  
LV Instrukciju tulkojumam no oriģinālvalodas  
LT Originalios instrukcijos vertimas  
BG превод на оригиналната инструкция  
RO Traducere a instructiunilor originale  
HR Prijevod originalnih uputa  
RU Оригинальное руководство по эксплуатации  
CN 原装使用说明  
KO 오리지널 사용 설명서  
JP 取扱説明書

## Zero Smog Shield

## Zero Smog Shield Pro



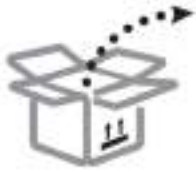
[www.weller-tools.com](http://www.weller-tools.com)



**MANUAL**



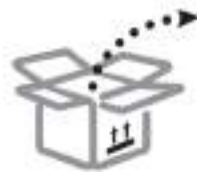
1



### Zero Smog Shield



E10 EPA / active carbon foam  
FT91000046



### Zero Smog Shield Pro



E10 EPA / active carbon  
FT91000047



WXSmart



WX

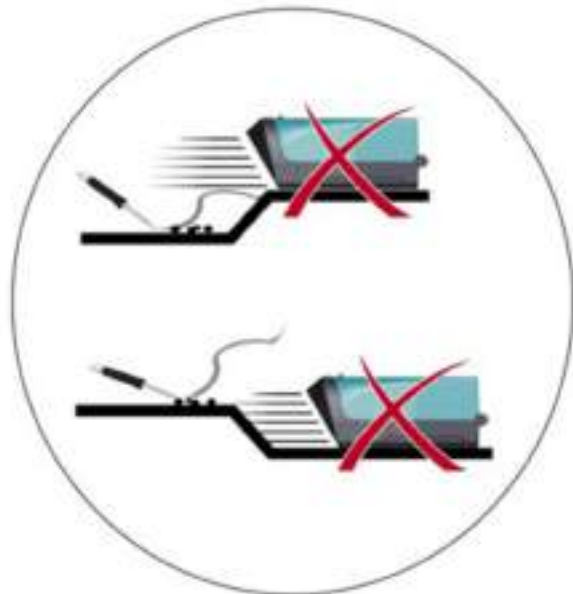
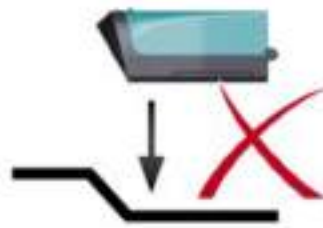
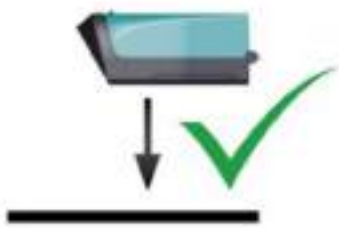


WT1

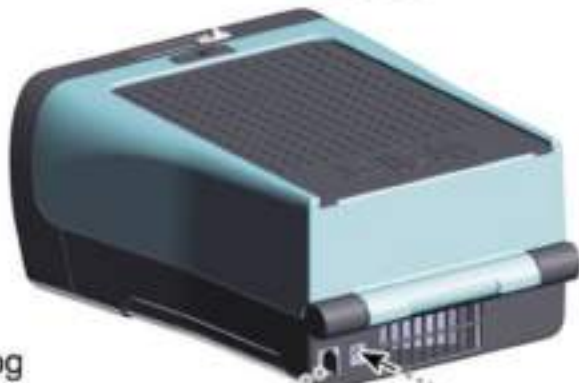
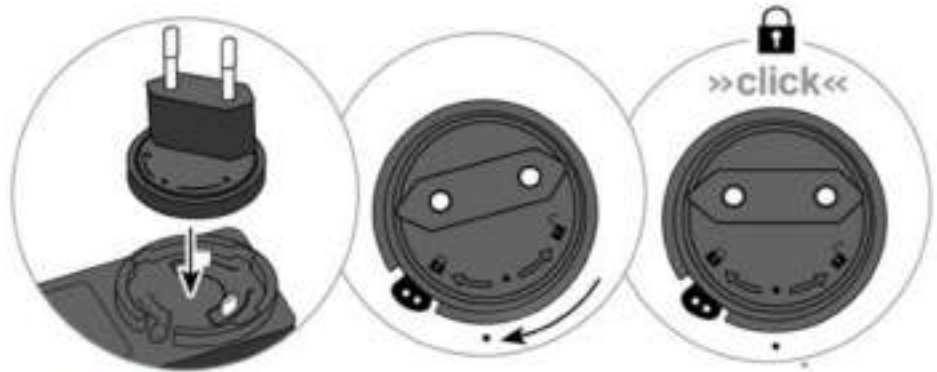


WE

2



3



Zero Smog  
Shield Pro :  
RS232



T0058764710



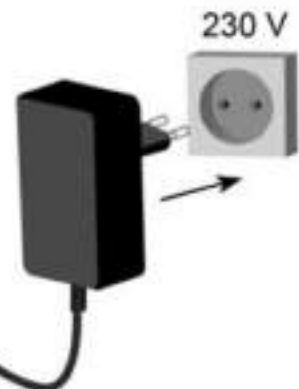
100-120 V



230 V



230 V

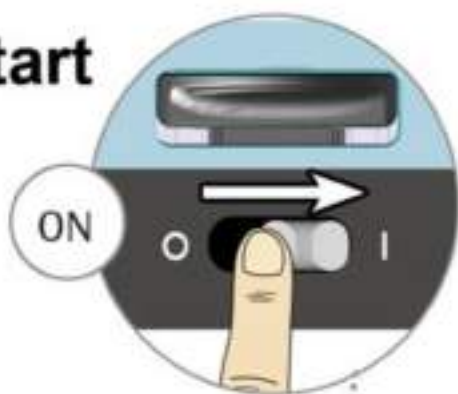


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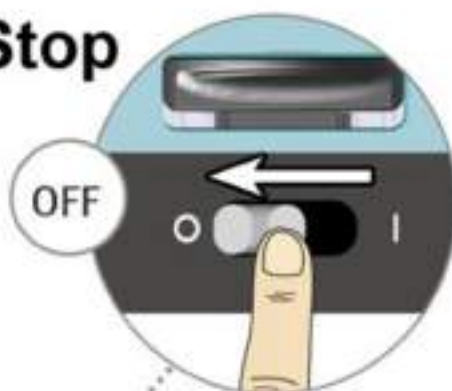
4

## Zero Smog Shield

**Start**



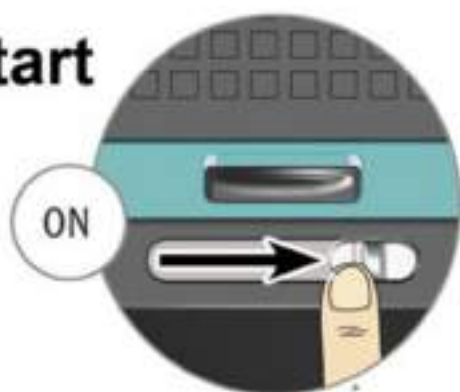
**Stop**



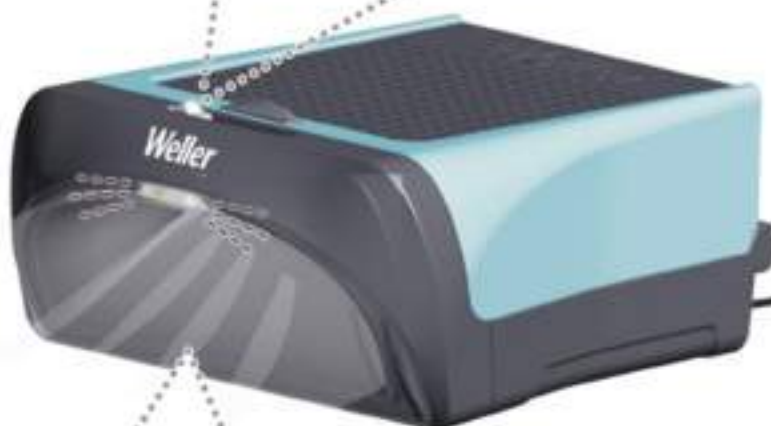
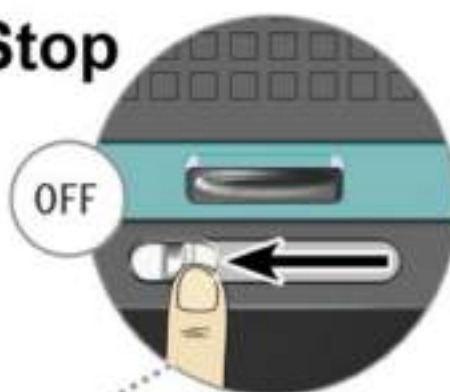
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## Zero Smog Shield Pro

**Start**

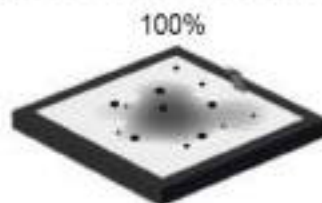


**Stop**



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## Zero Smog Shield Pro



Das Licht blinkt grün  
The light is flashing green  
La luz parpadea en verde  
La lumière clignote en vert  
La luce lampeggia in verde  
A luz pisca em verde  
Het licht knippert groen  
Ljuset blinkar grönt  
Lyset blinker grant  
Valo vilkkuu vihreänä  
Το φως αναβοβλίζει πράσινο  
Işık yeşil yanıp sönlüyor  
زه خخا نوؤشاب ضوي بوؤنؤا  
Světlo bíká zeleně  
Światło miga na zielono

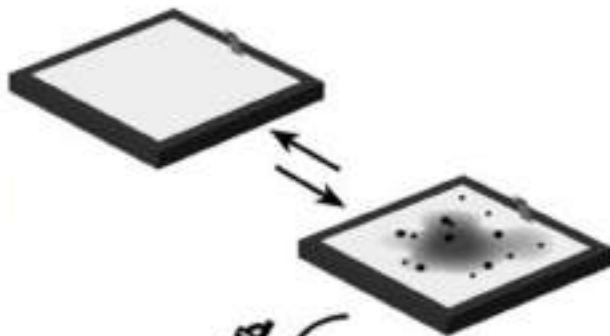
A fény zölden villog  
Světlo bíká zeleno  
Svetloba utripa zelena  
Tuli vilgub rohiseft  
Gaisma mığo zaŋŋi křişä  
Şivsa mığsi şalıai  
Светлината мига в зелено  
Lumina clipşte în verde  
Svjeto trepeŋi zeleno  
Свет мигаєт зелєним  
指示灯呈綠色閃爍  
표시등이 녹색으로 깜박입니다.  
ライトが緑色で点滅しています

Rot = filter vol  
Red = filter full  
Rojo = filtro lleno  
Rouge = filtre plein  
Rosso = filtro pieno  
Vermelho = Filtro cheio  
Rood = filter vol  
Röd = filter full  
Red = filter stoppel  
Punainen = suodatin täynnä  
Κόκκινη = Φίλτρο γεμάτο  
Kırmızı = Filtre dolu  
رؤبؤتم رؤتالؤل = رؤؤا  
Červená = filtr plný  
Kolor czerwony = całkowicie zapelnienie filtra

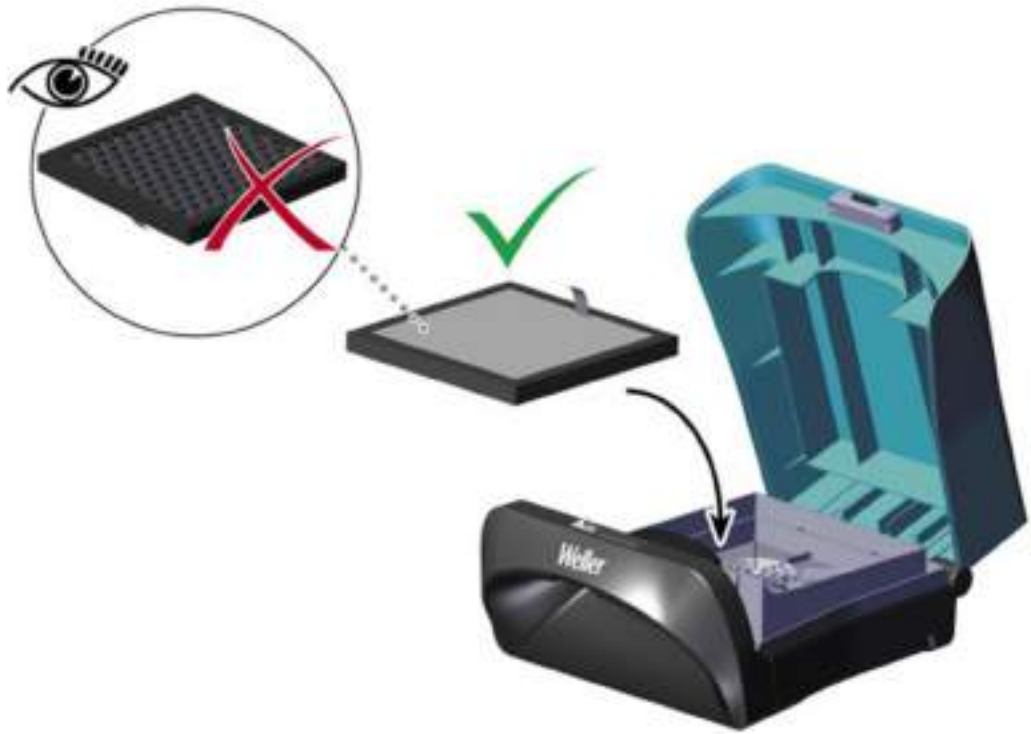
Piros = szűrő tele  
Červená = filter zanesený  
Rdeč = filter je poln  
punane = filter on täis  
Sarkans = filtr pilns  
Raudonas = filtras pilnas  
Crveni = filter pun  
кво = пълно зъл  
червена = филтър пълен  
Rojo = Filtro piln  
Crveno = filter pun  
Красный = филтър наполнен  
紅色 = 过滤器满  
적색 = 필터 가득 찼  
赤 = フィルターは満杯



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Supplied by  
**Grove Sales**  
Quality Products - Reliable Service - Est 1950



- DE** Schützen Sie die Werkzeuge bei der Lagerung vor Frost, Feuchtigkeit, Hitze und übermäßiger Sonneneinstrahlung.
- EN** If store, protect the device from frost, moisture, heat, and excessive sunlight.
- ES** Proteger el dispositivo de las heladas, la humedad, el calor y la luz solar excesiva.
- FR** En cas de stockage, protéger le dispositif du gel, de l'humidité, de la chaleur et d'un ensoleillement excessif.
- IT** Conservare il dispositivo al riparo dal gelo, dall'umidità, dal calore e dalla luce solare eccessiva.
- PT** Se armazenar, proteja o dispositivo da geada, humidade, calor e luz solar excessiva.
- NL** Bescherm het gereedschap bij opslag tegen vorst, vocht, hitte en overmatig zonlicht.
- SV** Vid förvaring ska enheten skyddas mot frost, fukt, värme och starkt solljus.
- DK** Hvis værktøjet opbevares, skal det beskyttes mod frost, fugt, varme og overdreven sollys.
- FI** Kun säilytät laitetta, suojaa se pakkaselta, kosteudelta, kuumuudelta ja liialliselta auringonvaloilta.
- GR** Κατά την αποθήκευση, προστατεύετε τη συσκευή από τον παγετό, την υγρασία, τη θερμότητα και την υπερβολική έκθεση στην ηλιακή ακτινοβολία.
- TR** Eğer saklıyorsanız cihazı dondan, nemden, ısıdan ve aşırı güneş ışığından koruyun.
- CZ** Při skladování chráňte zařízení před mrazem, vlhkostí, teplem a nadměrným slunečním zářením.
- PL** Podczas przechowywania należy chronić urządzenie przed mrozem, wilgocią, wysoką temperaturą i nadmiernym nasłonecznieniem.
- HU** Tároláskor védje a készüléket a fagytól, nedvességtől, hőtől és túlzott napfénytől.
- SK** Ak zařízeni skladujete, chráňte ho pred mrazem, vlhkosťou, teplom a nadmerným slnečným žiarením.
- SL** Če shranjujete napravo, zaščitite napravo pred mrazom, vlago, toploto in prekomerno sončno svetlo.
- EE** Töönistade hoiustamisel kaitske seadel külma, niiskuse, kuumuse ja tugeva päikesevalguse eest.
- LV** Ja novietojat glabāšanā, sargājiet ierīci no sala, mitruma, karstuma un pārmērīgas saules gaismas.
- LT** Jei laikote, saugokite prietaisą nuo šalčio, drėgmės, karščio ir per didelės saulės šviesos.
- BG** Ако съхранявате устройството, го пазете от замръзване, влага, топлина и прекомерна слънчева светлина.
- RO** La depozitare, protejați dispozitivul de îngheț, umiditate, căldură și lumină solară excesivă.
- HR** Ako ih skladištite, zaštitite uređaj od mraza, vlage, topline i prekomjerne sunčeve svjetlosti.
- RU** При хранении защищайте устройство от мороза, влаги, жары и солнечного света.
- CN** 存放工具时，要防止霜冻、潮湿、高温和过度日晒。
- KO** 서리, 습기, 열, 과도한 햇빛으로부터 공구를 보호하여 보관하십시오.
- JP** 霜、湿気、熱、直射日光を避けて工具を保管してください。

## Zero Smog Shield



## Zero Smog Shield Pro





**Read these instructions and the accompanying safety information carefully before starting up the device and starting work with the device.**

Keep these instructions in a place that is accessible to all users. Thank you for the confidence you have shown in buying this device.

The device has been manufactured in accordance with the most rigorous quality standards which ensure that it operates perfectly. These instructions contain important information which will help you to start up, operate and service the device safely and correctly as well as to eliminate simple faults and malfunctions yourselves.

Always pass on the device to third parties together with these operating instructions. The device has been manufactured in accordance with state-of-the-art technology and acknowledged regulations concerning safety. There is nevertheless the risk of personal injury and damage to property if you fail to observe the safety information and the warnings given in these instructions. Please adhere to the operating instructions of the connected devices.

### Safety information

**Keep other persons well away from your workplace.**

The work area is out of bounds for children and unauthorized persons. Never allow other persons to touch the device or cable.

#### **WARNING** Electrical shock

Protect yourself against electric shocks. Connecting the control unit incorrectly poses a risk of injury due to electric shock and can damage the device.

Carefully read the attached safety information, the safety information accompanying these operating instructions before putting the control unit into operation and observe the safety precautions specified therein.

- Only use the supplied, detachable power supply unit (T0058771809).
- If the device is faulty, active electrical conductors may be bare or the PE conductor may not be functional.
- Repairs must always be referred to a Weller-trained specialist.
- If the electrical tool's power supply cord is damaged, it must be replaced with a new power supply cord available through the customer service organization. If the electrical tool's power supply cord is damaged, it must be replaced with a specially prefabricated power supply cord available through the customer service organization.
- Protect yourself against electric shocks.
- Avoid touching earthed objects such as pipes, heaters, cookers and refrigerators.
- Do not use the device in a damp or wet environment.
- Never work on voltage-carrying parts.

#### CAUTION!

To provide continued protection against risk of electric shock, connect to properly grounded outlets only.

The power cable must only be plugged into the power socket or adapter approved for this purpose. Check to see if the mains voltage matches the ratings on the nameplate. Make sure the machine is switched off before plugging in.

Do not use the cable for purposes other than those for which it is intended. Do not use the cable to pull the plug out of the socket. Protect the cable against heat, oil and sharp edges.

Be alert. Pay attention to what you are doing. Be smart when using the unit. Do not use the device if you are having difficulty concentrating.

Avoid abnormal posture. Arrange your work station in an ergonomically correct way. Avoid bad posture when using the unit, as this can lead to postural problems. The device must be operated only in perfect technical working order.

Safety devices must not be deactivated. Faults and defects must be repaired immediately.

Before using the unit / tool, safety devices must be carefully checked to make sure that they are functioning properly and in the manner intended.

Check that moving parts are functioning properly and are not sticking, and whether parts are damaged. All parts must be correctly fitted and must satisfy all the requirements necessary to guarantee troublefree operation of the unit.

Use the correct tool. Use only accessories or auxiliary devices which are included in the list of accessories or approved for use by the manufacturer. Use WELLER accessories or auxiliary devices on original WELLER equipment only. Secure the tool. Use clamping fixtures to hold the workpiece.

#### **WARNING** Danger of injury

The device or parts of the device may fall off during transportation.

- Hold the device by the intended handles only.
- Never use the device as a means of transportation.

#### **WARNING** Danger of asphyxiation Danger of poisoning

Improper installation can result in above-normal workplace concentrations

- Measure the workplace concentration upon completion of installation work

Inappropriate maintenance cycles for gas media may result in above-normal workplace concentrations

- Specify maintenance cycle

Above-normal contamination levels in the ambient air during cleaning work on the pipe system/extraction area

- If suction capacity is impaired by build-up within the pipe system, replace the contaminated parts

A saturated activated carbon filter will not be able to capture harmful substances. The harmful substances will be released back into the environment unfiltered.

- Observe the recommended filter replacement intervals.

High concentrations of harmful gases can lead to overheating of the activated carbon and possibly trigger spontaneous combustion of the filter.

- Run the unit on clean air for several minutes before switching off.

#### **WARNING** Misuse may lead to injury.

Use this product solely in accordance with these instructions.

- Do not attempt to modify the product in any way.
- Ensure that the fan is switched off from the supply mains before removing the guard.

### Specified Conditions Of Use

This filtration system is suitable for the extraction and filtration of particles and gases, depending on the filter medium used.

#### **WARNING** Danger of asphyxiation, Danger of poisoning

Improper use may result in respiratory problems, asphyxiation, poisoning or cancer

- Particles and gases which are unsuitable for the filter medium in use may not be extracted.
- Liquids and flammable gases may not be extracted
- Never use the device without a filter or with a full filter.
- Never use the device without the fan covers

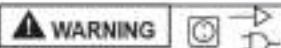
This device may only be used at room temperature and indoors.

The unit is designed for use as a surface extraction unit and is not suitable for extracting fumes directly from the soldering gun.

Intended use of the soldering station/ desoldering station also includes the requirement that you

- adhere to these instructions,
- observe all other accompanying documents,,
- comply with national accident prevention guidelines applicable at the place of use.

## Notes on operation, Care and maintenance

**WARNING**

Before doing any work on the machine, pull the plug out of the socket.

Check all connected cables on a regular basis.

If power tools are damaged, they must be immediately removed from use.



Repairs must always be referred to a Weller-trained specialist.

Use original replacement parts only.

**WARNING****External Power Supply:**

Mount plug type appropriate for your region by slipping into the power adapter until the plug clicks in.

To ensure that the filtration system functions properly, the filter must be replaced as follows

- at least once a year or
- when indicated or
- if the maximum allowable workplace concentration is exceeded or
- as per maintenance schedule

The suspended matter filter and the broadband gas filter are complementary to one another and can be replaced together as a compact filter. The compact filter must be changed once a year in order to ensure it is fully functional. The fine dust filter (filter mat) is the preliminary stage of the compact filter and therefore must be replaced more frequently.

It is strongly recommended that the compact filter be replaced after no more than 10 fine dust filter changes.

**The red warning light is flashing**

Recommended service life of filter has expired. Indicates that the filter needs changing. Reset the warning with the reset function on the control panel and schedule a filter change.

**The red warning light is lit continuously**

Extraction capacity is too low. Switch off the filter unit. Check the nozzles and tubes, and clean them if necessary. If the red warning light comes on again the next time the unit is turned on, the filter must be changed.

**NOTICE**

Different fluxes and flux constituents and the amount of and size of dust particles in the extracted air will significantly effect the filters working life. Submicron particles in the extracted air increase when soldering or welding to varnish insulated wire.

**CAUTION!**

Contaminated filters must be treated as special waste. Dispose of replaced equipment parts, filters or old devices in accordance with the rules and regulations applicable in your country.

Message/symptom	Possible cause	Remedial measures
• Extraction power missing	• Filter is dirty	• change the filter
• RGB light turns blue when turned on.	• Incorrect supply voltage.	• Check the power supply.
• RGB light blue during operation	• The blower is blocked.	• Disconnect the device from the power supply. Contact the service center if necessary.

## Warranty

Claims by the buyer for physical defects are time-barred after a period of one year from delivery to the buyer. This does not apply to claims by the buyer for indemnification in accordance with §§ 478, 479 BGB (German Federal Law Gazette).

We shall only be liable for claims arising from a warranty furnished by us if the quality or durability warranty has been furnished by use in writing and using the term „Warranty“.

The warranty shall be void if damage is due to improper use and if the device has been tampered with by unauthorized persons.

For more information please visit [www.weller-tools.com](http://www.weller-tools.com).

## Technical Data

Technical Data		Zero Smog Shield	Zero Smog Shield Pro
Dimensions L x W x H	(mm ) (inch)	269.5 x 212 x 110 10.6 x 8.3 x 4.3	269.5 x 212 x 110 10.6 x 8.3 x 4.3
Mains supply voltage	(VAC) (Hz)	100-240 50/60	100-240 50/60
Operating voltage	(VDC)	24	24
Power consumption	(W)	10	20
Weight	(kg)	2	2
Safety class		III	III
Combined filter		E10 EPA / Activated carbon foam	E10 EPA / Activated carbon
Maximum vacuum	(Pa)	285	490
Maximum quantity supplied	(m <sup>3</sup> /h)	26	32
port		-	RS232
Operating sound level from 1 m distance	dB(A)	50	59 at maximum speed

## Power supply

Model name: DZ048BHL240200H

Manufacturer's name: GUANGDONG KEERDA ELECTRONICS CO., LTD

Input voltage	(V)	100-240
Input AC frequency	(VAC) (Hz)	100-240 50/60
Output voltage	(V)	24
Output current	(A)	2
Output power	(W)	48
Average active efficiency	(%)	87.76
Efficiency at low load (10%)	(%)	88.1
No-load power consumption	(W)	0.09

Subject to technical alterations and amendments.

**Zero Smog Shield Pro**

ESD-compatible design and ESD-compatible workstation.

Before performing work of any kind on the unit, always disconnect the power plug from the socket.

## Disposal










Waste tight sources have to be removed from equipment. Check with your local authority or retailer for recycling advice and collection point. According to local regulations retailers may have an obligation to take back waste electrical and electronic equipment free of charge. Your contribution to re-use and recycling of waste electrical and electronic equipment helps to reduce the demand of raw materials. Waste electrical and electronic equipment contain valuable, recyclable materials, which can adversely impact the environment and the human health, if not disposed of in an environmentally compatible manner.

Delete personal data from waste equipment, if any.

Contaminated filters must be treated as special waste.

Dispose of replaced equipment parts, filters or old devices in accordance with the rules and regulations applicable in your country.

## Symbols

	Caution!		Off
	Read the operating instructions!		On
	CE mark of conformity		Australian Conformity Mark
	British Conformity Mark		Electrical waste (WEEE Directive)
	Green Dot		

## Power supply

	Switching power supply		Do not use with a defective power plug.
	Energy Efficiency Class VI		Contact configuration/pinout
	short-circuit-proof safety isolating transformer		Hot surface, do not touch
	Usable at altitudes up to 5000 meters		Electrical waste (WEEE Directive)
	British Conformity Mark		CCC Certificate China
	CE mark of conformity		ETL Certificate North America
	FCC - Admission		GSE tested (TUV Rheinland)
	Australian Conformity Mark		PSE Certificate Japan (TUV Rheinland)

**DE EU Konformitätserklärung**

Wir erklären, dass die bezeichneten Produkte die Bestimmungen folgender Richtlinien erfüllen:

**EN EC declaration of conformity**

We hereby declare that the products described herein comply with the following guidelines:

**ES Declaración de conformidad de la UE**

Declaramos que los productos mencionados cumplen las disposiciones de las siguientes Directivas:

**FR Déclaration CE de conformité**

Nous déclarons que les produits désignés répondent aux conditions des directives suivantes:

**IT Dichiarazione CE di conformità**

Dichiariamo che i prodotti dotati di contrassegno adempiano alle seguenti Direttive:

**PT Declaração de conformidade da UE**

Declaramos que, os produtos designados cumprem os regulamentos das directivas seguintes:

**NL EU-conformiteitsverklaring**

We verklaren dat de beschreven producten de bepalingen van volgende richtlijnen vervullen:

**SV EU-försäkran om överensstämmelse**

Vi deklarerar att de betecknade produkterna uppfyller bestämmelserna i följande riktlinjer:

**DK EU-overensstemmelseserklæring**

Vi erklærer, at de nævnte produkter opfylder bestemmelserne i følgende direktiver:

**FI EU-vaatimustenmukaisuusvakuutus**

Täten vakuutamme, että kuvatut tuotteet täyttävät seuraavien direktiivien määräykset:

**GR Δήλωση συμμόρφωσης ΕΕ**

Δηλώνουμε, ότι τα χαρακτηρισμένα προϊόντα πληρούν τις διατάξεις των ακόλουθων οδηγιών:

**TR AB uygunluk beyanı**

Adı geçen ürünlerin, aşağıda yer alan yönergelerdeki gereklilikleri karşıladığını beyan ederiz:

**CZ EU prohlášení o shodě**

Prohlašujeme, že označené produkty splňují ustanovení následujících směrnic:

**PL Deklaracja zgodności UE**

Niniejszym oświadczamy, że wymienione produkty spełniają poniższe wytyczne:

**HU EU-megfelelőségi nyilatkozat**

Kijelentjük, hogy a megnevezett termékek teljesítik a következő irányelvek előírásait:

**SK EÚ vyhlásenie o zhode**

Vyhlasujeme, že uvedené výrobky spĺňajú ustanovenia nasledujúcich nariadení:

**SL Izjava EU o skladnost**

Izjavljamo, da imenovani izdelki izpolnjujejo določila naslednjih direktiv:

**EE ELi vastavusdeklaratsioon**

Kinnitame, et nimetatud toode vastab järgmiste direktiivide sätetele:

**LV ES atbilstības deklarācija**

Mēs deklarējam, ka norādītie produkti atbilst tālāk uzskaitīto regulu noteikumiem:

**LT ES atitikties deklaracija**

Mes patvirtiname, kad aprašyti gaminiai atitinka toliau nurodytų direktyvų nuostatas:

**BG ЕС декларация за съответствие**

Ние декларираме, че назованите продукти изпълняват изискванията на следните Директиви:

**RO Declarația de conformitate UE**

Declaram că produsele nominalizate îndeplinesc prevederile următoarelor directive:

**HR EU izjava o skladnosti**

Izjavljujemo da navedeni proizvodi ispunjavaju odredbe sljedećih smjernica:

**RU Декларация соответствия ЕС**

Заявляем, что указанные продукты выполняют требования следующих директив:

**CN** 표준설명 부품에 포함되어야 한다.

우리는 본 설명서에 설명된 제품은 다음과 같은 지침을 준수 함을 선언

**KO** オリジナルの適合宣言書

我々はこちらに以下のとおり宣言する：本明細書に記載された製品は、次のガイドラインに準拠している：

**JP** 符合标准说明原件

我方特此声明：所述产品符合以下规范：

2006/42/EU, 2014/30/EU, 2011/65/ EU (RoHS)

**CE** Besigheim, 2024-01-26

Philippe Buidin  
Managing director

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技術文書の作成が認可される。

Weller Tools GmbH  
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**EN** UK declaration of conformity

We hereby declare that the products described herein comply with the following guidelines:

SI 2006 No.1101, SI 2016 No.1091, SI 2012 No.3032

**UK CA** Besigheim, 2024-01-26

Philippe Buidin  
Managing director

Authorised to compile technical documentation.

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# Product Registration

Produkt-Registrierung - Enregistrement produit - Registro de producto - 尊敬的客户您好



Product Type



Serial Number



[www.weller-tools.com/registration](http://www.weller-tools.com/registration)

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