

# Clean air is a worker's right.

Breathe easy in a healthier  
benchtop environment.

**ZeroSmog Shield Pro**  
FUME EXTRACTION



# Welcome to a new era in electronics manufacturing, where clean air is a necessity.

It's the driving force behind increased productivity, healthier workers, and a better bottom line. The state-of-the-art ZeroSmog Shield Pro solder fume filtration system is designed to revolutionize your individual workstation.

Breathe clean air at your workbench while you work on your next soldering task with the Weller ZeroSmog Shield Pro, a true filtration unit that keeps your work environment clean and fresh. Its compact design, which can be stacked with soldering stations, helps maximize your workspace. With the ZeroSmog Shield Pro, you can breathe easy and focus on your soldering.

## A test filter shows the effects of lead-free soldering



\*Lead free soldering produces up to 250% more particles in the breathing zone than leaded soldering. A clean filter before use and with pollutants after 90 minutes of soldering with lead-free solder wire (3% flux content) shows how effective efficient fume extraction can be and how important fume extraction during soldering is.

# ZeroSmog Shield Pro – all benefits at a glance



## User comfort

- Simple to use – low maintenance and easy filter change
- Small footprint, stackable and easy to move around
- Connectivity to Weller soldering stations
- Working light
- ESD safe



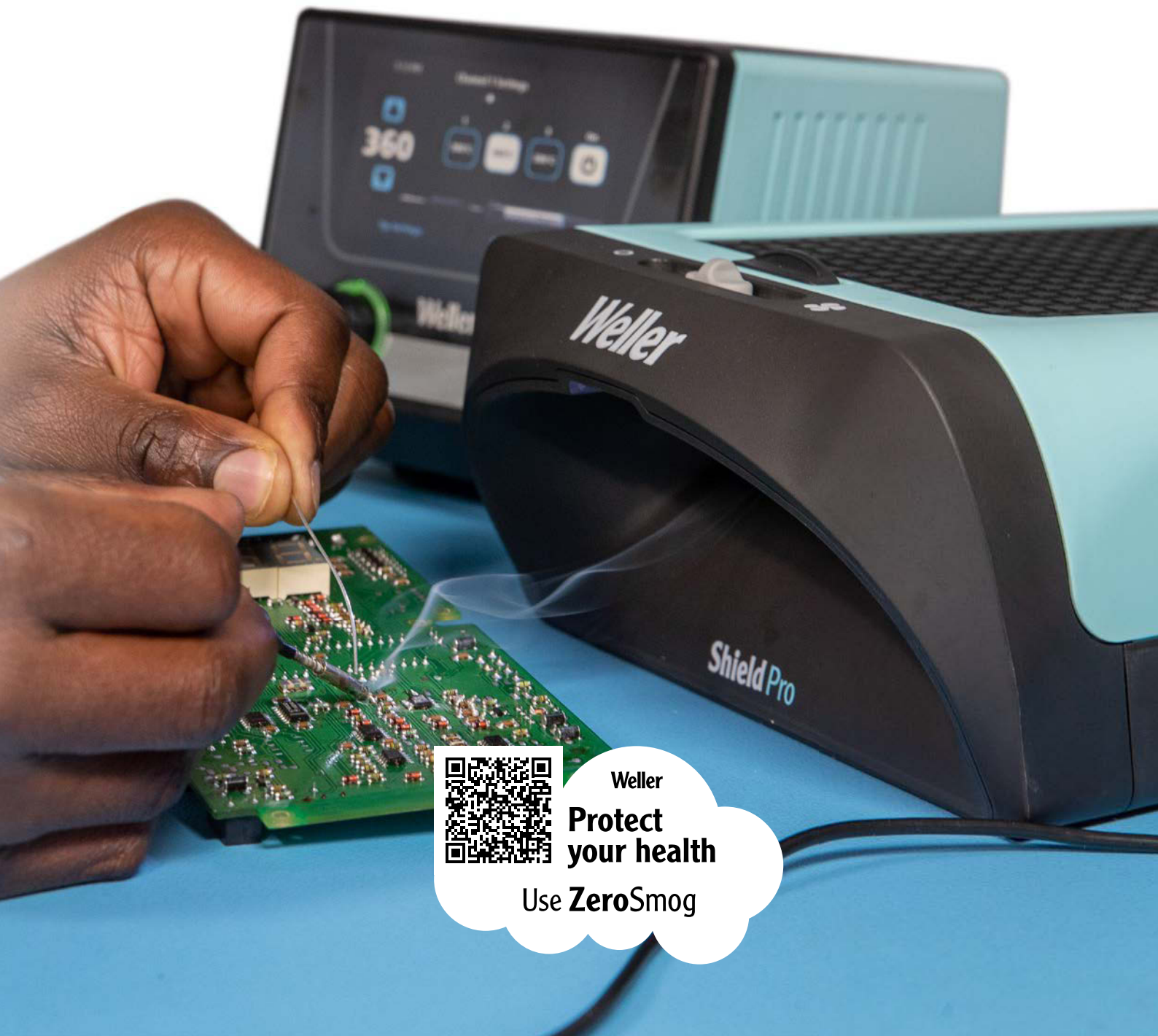
## Health protection

- Effective filtration – for cleaner and healthier air
- Powerful blower
- High flow rate
- High efficiency particle and gas filtration
- Odour removal during soldering



## Quiet operation

- Robust, but quiet blower
- Aerodynamic flow optimization harnessing planar flow
- Exhaust path silencing



Weller  
**Protect  
your health**  
Use **ZeroSmog**

# Why ZeroSmog Shield Pro?

## Inhale the essence of clean air.

The ZeroSmog Shield Pro ensures impeccable air quality by capturing solder particles and gases. Our filters are made up of EPA E10 (for particulates) and activated carbon (for gases).

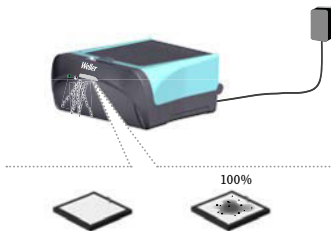


### Count on smart design

The compact design is a space-saving marvel. It is slim and stackable. This not only saves valuable bench space, but also adds a touch of modern sophistication to your work area.

### Stop & Go

Connect the ZeroSmog Shield Pro to high-end Weller soldering stations to automatically start and stop filtration when using the soldering iron



### Filter condition monitoring

The device's continuous filter status checks provide peace of mind knowing that the filter is doing its job.

### ZeroSmog Shield Pro is suitable for:

R&D, rework, training, laboratories, etc. It is designed for intermittent use. Filter needs to be changed after a use of approx. 300g solder wire (3.5% flux). For production line, we recommend our larger ZeroSmog filtration units.

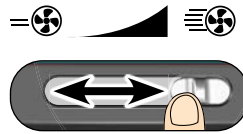






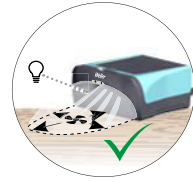
## Seamless convenience for you

A quick and easy filter change enhances the user experience.



## Powerful blower

With adjustable extraction power



## Work zone identification

The best extraction area for efficient filtration is clearly indicated by a bright work light



### TECHNICAL DATA ZEROSMOG SHIELD PRO

<b>Dimensions L x W x H</b>	269.5 x 212 x 110 mm / 10.6 x 8.3 x 4.3 inch
<b>Mains supply voltage</b>	100-240V AC / 50/60 Hz
<b>Operating voltage</b>	24V DC
<b>Power consumption</b>	20 W
<b>Weight</b>	2 kg
<b>Safety class</b>	III
<b>Combined filter</b>	E10 EPA / Activated carbon
<b>Maximum vacuum</b>	490 Pa
<b>Maximum airflow</b>	32 m³/h
<b>Interface</b>	RS232
<b>Operating sound level from 1 m distance</b>	50 dBA (59 dBA at full speed)
<b>Subject to technical alterations and amendments.</b>	



**Antistatic housing  
(ESD safe)**

### SCOPE OF SUPPLY

(Order number FT91019299)

ZeroSmog Shield Pro unit
EPA E10 Filter
Power Supply

# Protect your health during hand soldering.

## Did you know that

- long and short term exposure to airborne particles and gases can lead to symptoms including dermatitis
- and acne, headaches, eye irritation, sinonasal cancer, sore throats, and lung damage\*?
- at least 20 % of employees in the soldering area indicate clinical symptoms of asthma\*\*?
- in many countries legal regulations govern clean air in the work place\*\*\*?

\*HSE Health & Safety Executive in Great Britain

\*\*Results from a study made in USA & Europe

\*\*\* E.g. in Sweden and Norway

## Good reasons to use Weller ZeroSmog filtration units

- Protect your respiratory system
- Care for health and well-being
- Stay compliant with regulations
- Take responsibility for the environment
- Reduce absence times and healthcare costs
- Increase productivity

## Comparison:

Influence of smog inhalation

Fibers, pollen 10 µm

Bacteria, pigments 5 µm

Smog:

Asbestos dust > 10 µm

Viruses > 5 µm

Gas



Weller

**Protect  
your health**

Use **ZeroSmog**

## What health risks can develop?

Headache

Eye irritation

Nosebleed

Sinonasal cancer

Dermatitis and acne

Sore throat

Respiratory damage

Occupational asthma



## #PowerfulTogether

### ZeroSmog Shield Pro and Weller Soldering Stations



#### WXsmart

As the most connected, controlled and secured hand-soldering solution in the world, WXsmart is connecting the future of soldering!



#### WX Family

WX stations are intuitive and easy-to-operate soldering and desoldering stations for maximum process reliability.



#### WT Family

The compact and user-friendly WT soldering stations offer high flexibility for versatile applications.



#### Other stations

Almost any soldering station, no matter which brand, can be stacked. No interface to ZeroSmog Shield Pro.



## ZeroSmog Shield Pro

The modular and clean base on your workbench.

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