

# Weller



GB Translation of the original instructions

ZeroSmog  
GuardLight

ZeroSmog  
Guard

ZeroSmog  
Guard2



**MANUAL**



**VIDEO**

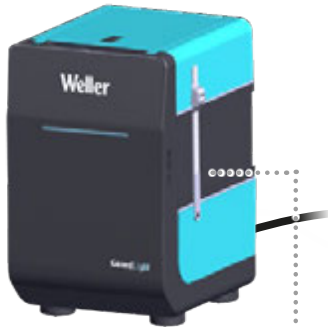
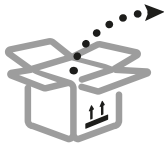


**FAQ**

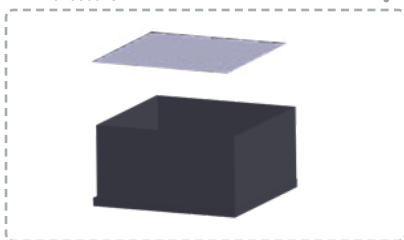
1

# ZeroSmog GuardLight

120 V FT91020699  
230 V FT91020299

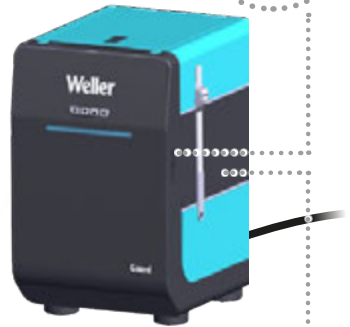
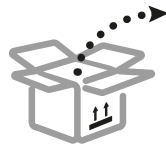


FT91000048

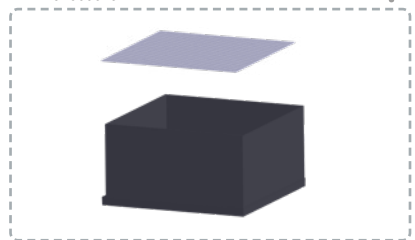


# ZeroSmog Guard

120 V FT91021699  
230 V FT91021299



FT91000049



DE Zubehör  
GB Accessory  
ES Accesorio  
FR Accessoires  
IT Accessorio  
PT Acessório  
NL Toebehoren

SV Tillbehör  
DK Tilbehør  
FI Lisälaite  
GR Εξαρτήματα  
TR Aksesuar  
CZ Příslušenství  
PL Wyposażenie

HU Tartozék  
SK Príslušenstvo  
SL Oprema  
EE Tarvikud  
LV Piederumi  
LT Priedas  
BG Принадлежности

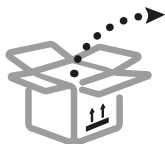
RO Accesorii  
HR Pribor  
RU Оснастка  
CN 配件  
KO 액세서리  
JP アクセサリー

# 1

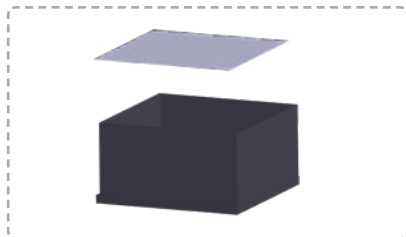
# ZeroSmog Guard2

120V FT91022299

230V FT91022699



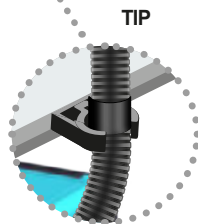
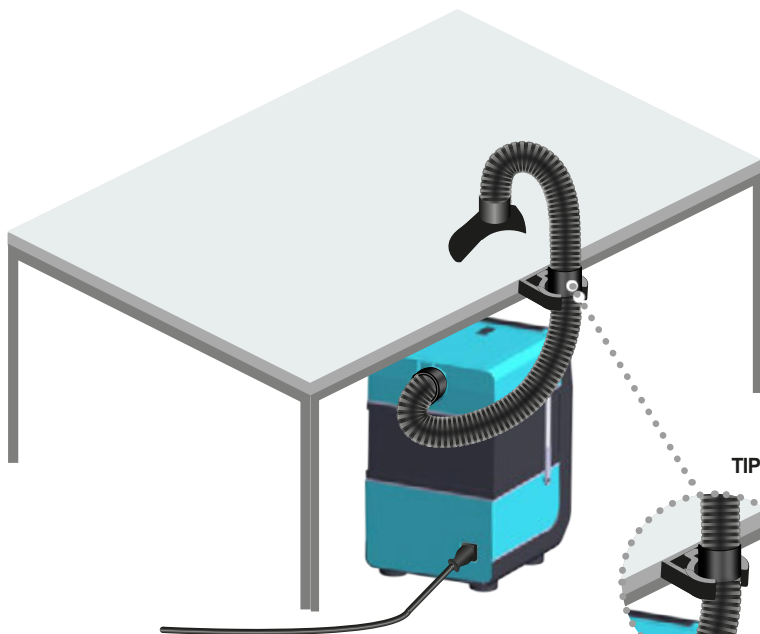
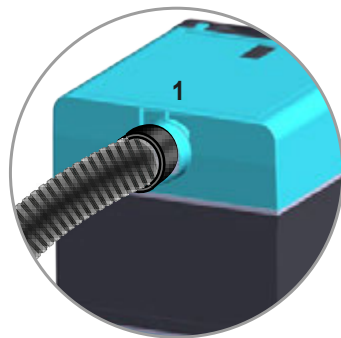
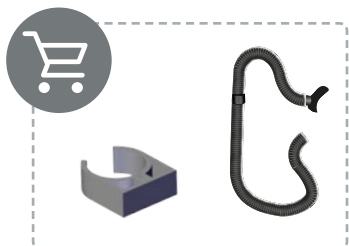
FT91000049



DE	Zubehör	SV	Tillbehör	HU	Tartozékok	RO	Accesorii
GB	Accessory	DK	Tilbehør	SK	Príslušenstvo	HR	Pribor
ES	Accesorio	FI	Lisälaite	SL	Oprema	RU	Оснастка
FR	Accessoires	GR	Εξαρτήματα	EE	Tarvikud	CN	配件
IT	Accessorio	TR	Aksesuar	LV	Piederumi	KO	액세서리
PT	Acessório	CZ	Příslušenství	LT	Priedas	JP	アクセサリ
NL	Toebehoren	PL	Wyposażenie	BG	Принадлежности		

2

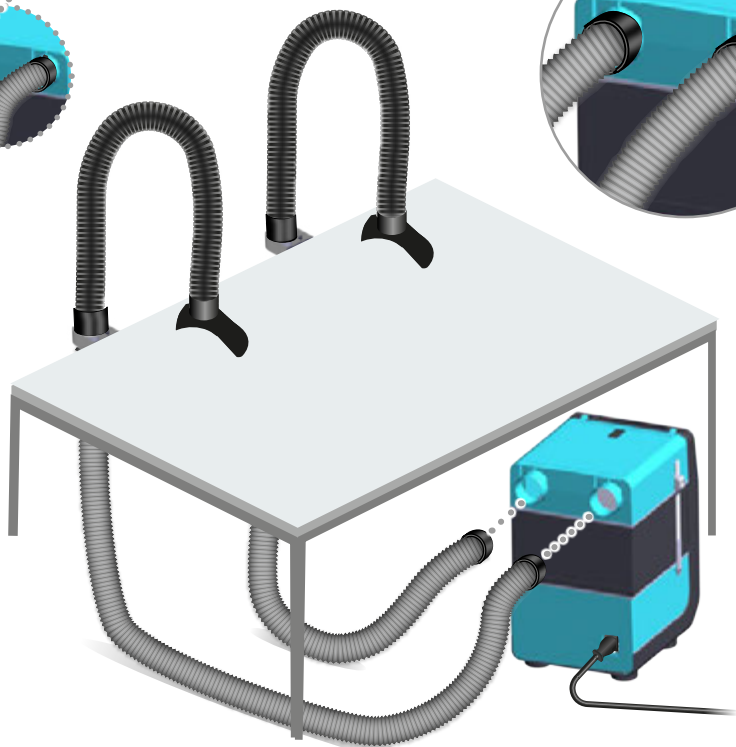
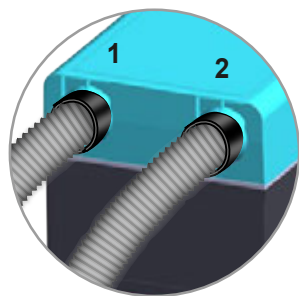
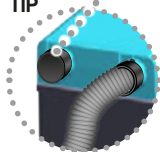
# ZeroSmog GuardLight ZeroSmog Guard



# ZeroSmog Guard2

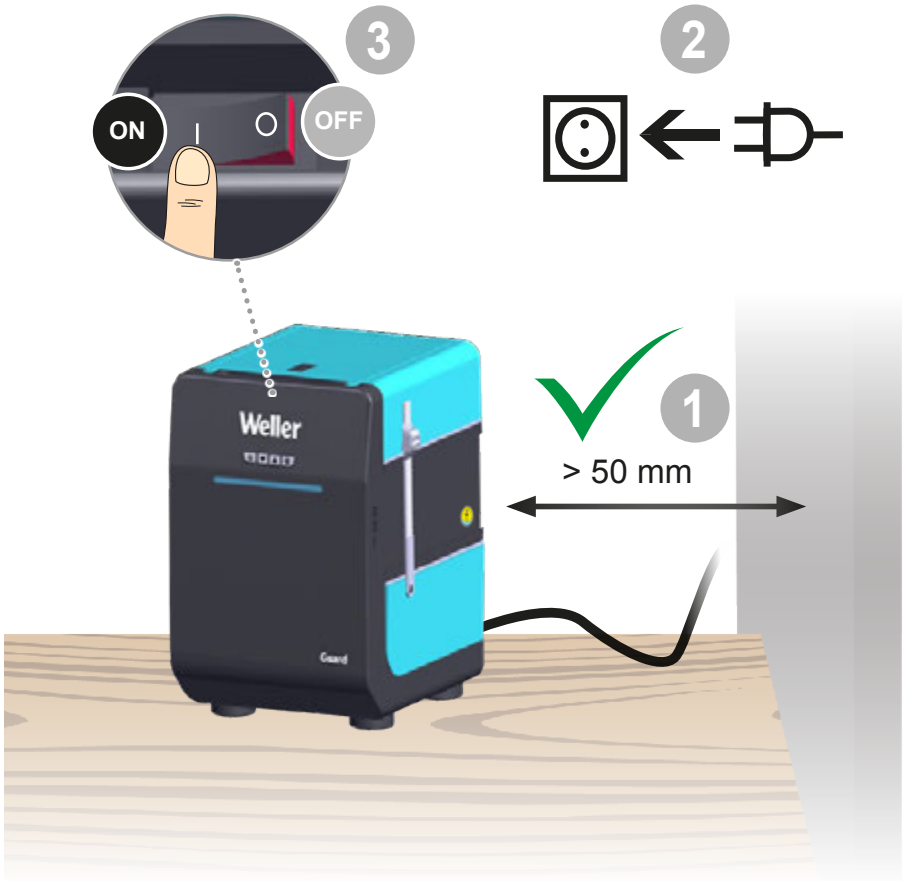


TIP



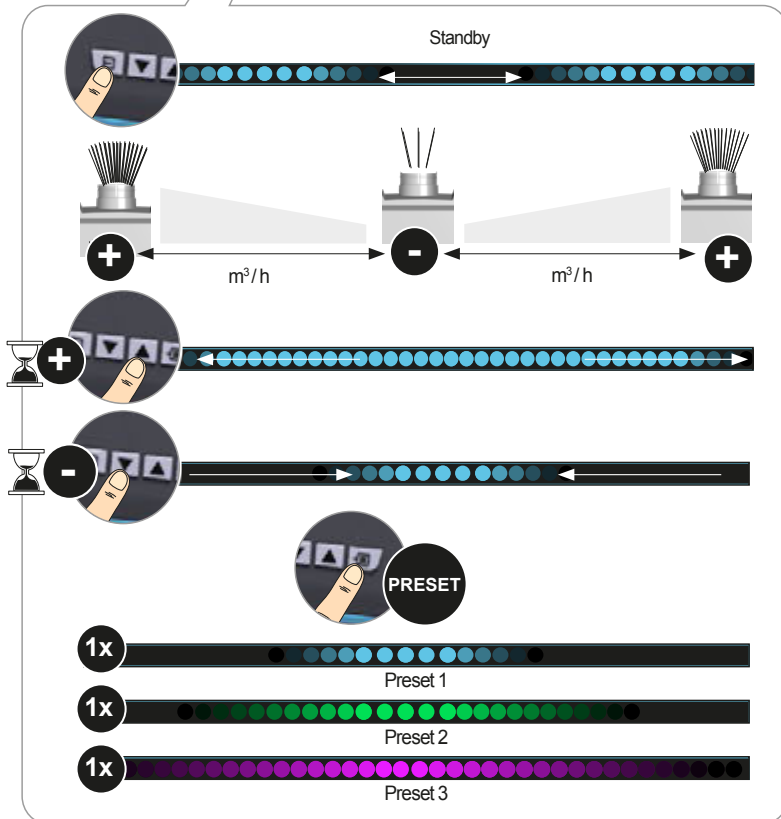
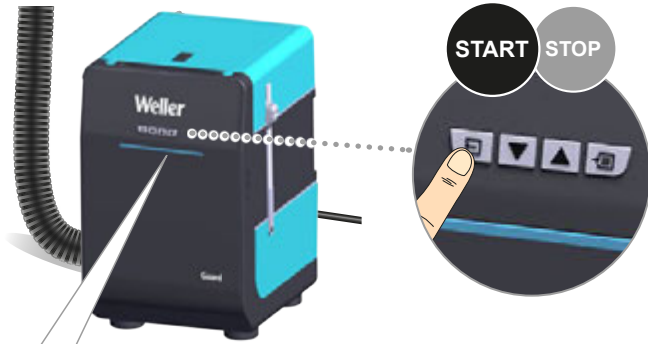
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# ZeroSmog GuardLight ZeroSmog Guard ZeroSmog Guard2



# 4

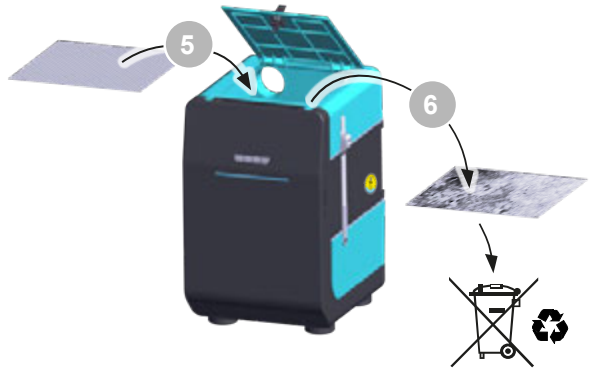
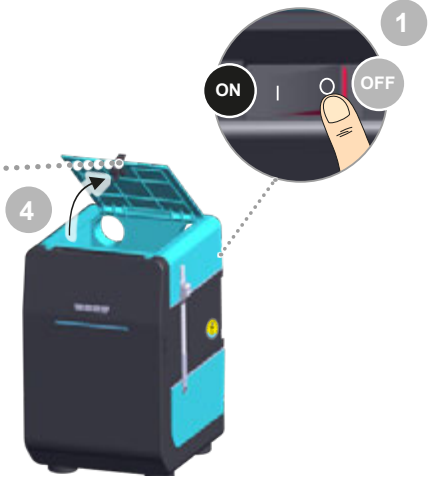
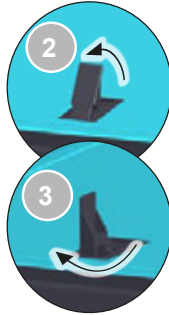
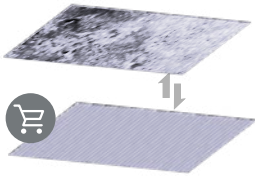
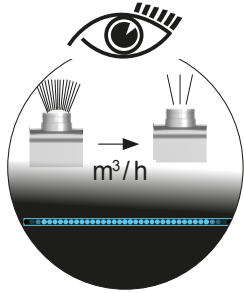
## ZeroSmog Guard ZeroSmog Guard2





5

# ZeroSmog GuardLight ZeroSmog Guard ZeroSmog Guard2

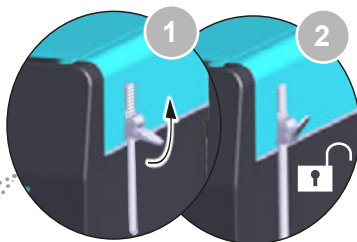
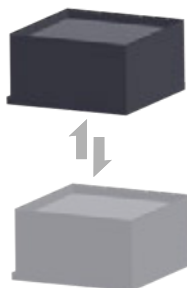
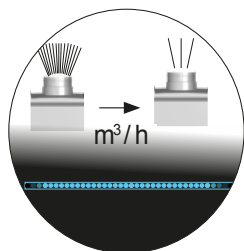


# ZeroSmog GuardLight

## ZeroSmog Guard

## ZeroSmog Guard2

min. 1x



2x



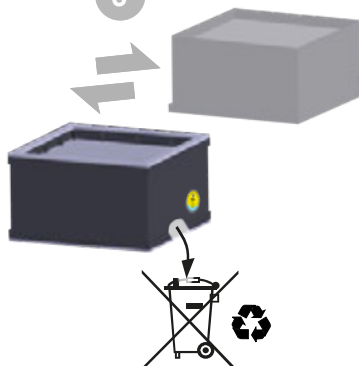
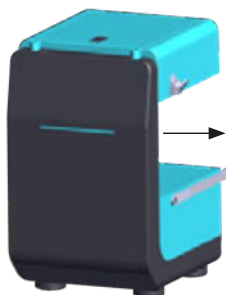
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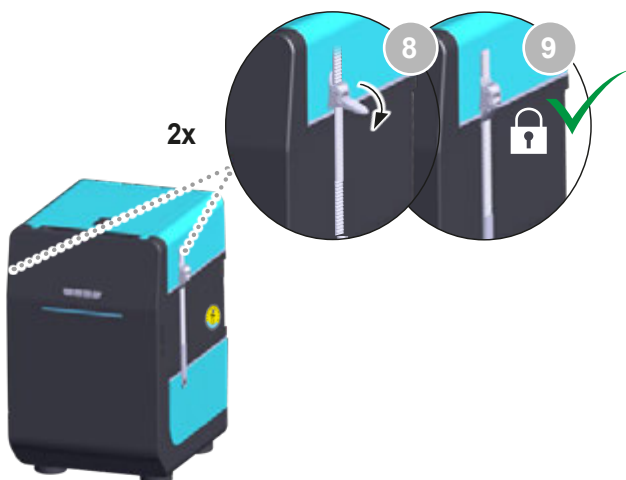
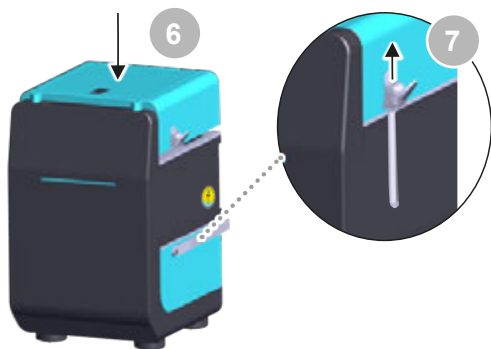


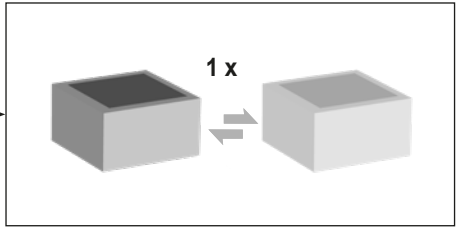
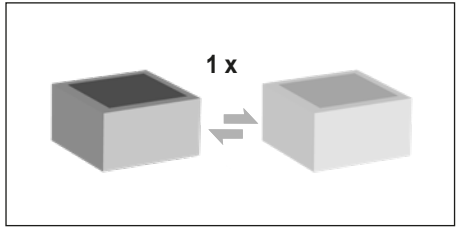
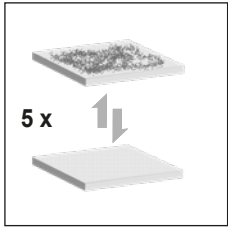
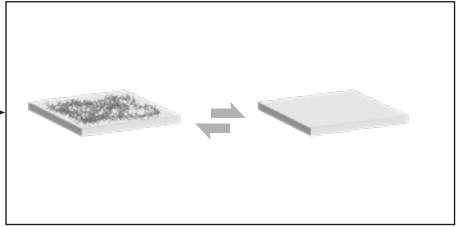
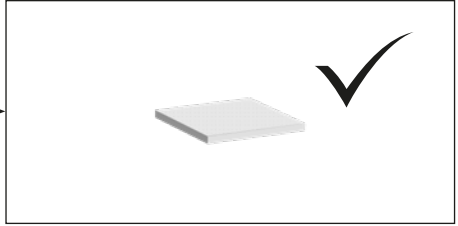
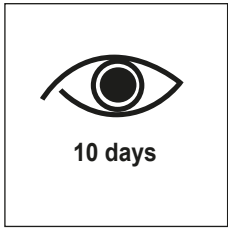
4



5











**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 set out in the accompanying booklet and the warnings given in these instructions.

### Safety information

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 a 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.

#### **⚠ WARNING! Electrical shock**

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 specially prefabricated power supply cord available through the customer service organization.

#### **⚠ WARNING! Danger of injury.**

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

- Hold the device by the intended handles only.

#### **⚠ WARNING! Danger of asphyxiation. Danger of injury.**

**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

### Specified Conditions Of Use

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

The manufacturer will not be liable for unauthorized modifications to the device.

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

#### **⚠ WARNING! Fire and explosion hazard!**

It is not permitted to use the unit for the extraction of inflammable gases. The unit must not be exposed to temperatures above 50°C, naked flame or condensed solvents.

The organisation operating the unit is responsible for the observance of the legal limits of noxious substances at the place of work.

The filtration system may only be put into operation if it is in perfect working order.

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

The 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.

Soldering enamelled wire:

- For soldering enamelled wire, use the standard prefilter.
- Use a wideband gas filter (without a HEPA particle filter) for the extraction of adhesive vapours.

The manufacturer will not be liable for unauthorized modifications to the device.

## User groups

Due to differing degrees of risk and potential hazards, several work steps may only be performed by trained experts.

Work step	User groups
Installation of complex pipe systems with multiple extractor arms connected	Specialist personnel with technical training
Specification of maintenance intervals	Safety expert
Filter change	Non-specialists
Replacing electrical replacement parts	Technical trainees under the guidance and supervision of a trained expert

## Operation

### Notice

The unit may emit dust from the main filter after transportation. Make sure that the unit is put into service in a suitable room.

The LED strip lights up red:

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.

**▲ CAUTION!** **A high noxious gas concentration will cause the activated charcoal to heat up. To avoid overheating, the unit should be run without noxious gases for several minutes before switching off.**

## Care and maintenance

### Warning!

*Before doing any work on the machine, pull the plug out of the socket.* The unit must not be altered or modified in any way! *Use original replacement parts only.* To ensure that the filtration system functions properly, the compact filter must be replaced as follows:

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

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

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.

At the latest, every 5th replacement of the pre-filter makes changing the compact filter highly recommended.

### Notice

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

Put the tool into operation as described in the chapter „Placing into operation“. Please adhere to the operating instructions of the connected devices. Check to see if the mains voltage matches the ratings on the nameplate. Make sure the machine is switched off before plugging in.

Optimal gas filtration is achieved as follows:

Temperature of process air in gas filter < 38 °C

Relative humidity < 60 %

Recommended service life of filter has expired. (see Operating time filter display/Extraction capacity filter display)

An alarm sounds and the LED strip lights up red:

Extraction capacity is too low. Switch off the filter unit. Check the nozzles and tubes, and clean them if necessary.

If the alarm sounds again the next time the unit is turned on, the filter must be changed.

## Cleaning

To ensure that the unit functions properly, the nozzle, extractor arm and connecting hose must be cleaned on a regular basis.

## Efficiency test

Ventilation appliances /systems might be affected by technical regulations, please consider regulations of your country.

### Error messages and error clearance

Message/symptom	Possible cause	Remedial measures
• Extraction power missing	• Pipe system leaking	• Reseal the pipe system
	• Filter is dirty	• change the filter
• Unit is not running	• Thermally switched off	• Leave the ZeroSmog to cool down Switch on again after approx. 3 hours
• HEPA filter gets dirty too quickly	• No pre-filter was used or an incorrect one was installed	• Use prefilter • Use a pre-separator for high solid content
• Device does not work	• Fuse is blown	• Please contact our Customer Service: <a href="mailto:technical-service@weller-tools.com">technical-service@weller-tools.com</a>
	• Unit is not properly connected	• Check the electrical connections
• Red LED running light.	• Fan is blocked	• Please contact our Customer Service: <a href="mailto:technical-service@weller-tools.com">technical-service@weller-tools.com</a>
• The color of the LED bar changes to red.	• Pipe system sealed.	• Open pipe system.
	• Filter is dirty	• change the filter

### Technical Data

Solder fume extraction	ZeroSmog GuardLight	ZeroSmog Guard	ZeroSmog Guard2
Dimensions L x W x H (mm)	270 x 336 x 435	270 x 336 x 435	270 x 336 x 435
Dimensions L x W x H (inch)	10.63 x 13.23 x 17.13	10.63 x 13.23 x 17.13	10.63 x 13.23 x 17.13
Weight approx. (kg)	9,5	9,5	9,5
Mains supply voltage (V/Hz)	FT91020699: (220-240 V~) 50/60 Hz FT91020299: (100-120 V~) 50/60 Hz	FT91021699: (220-240 V~) 50/60 Hz FT91021299: (100-120 V~) 50/60 Hz	FT91022699: (220-240 V~) 50/60 Hz FT91022299: (100-120 V~) 50/60 Hz
Operating sound level from 1 m distance (db(A))	< 70 dB (A)	< 70 dB (A)	< 70 dB (A)
Power consumption (W/V)	74 W (220-240 V~) 60 W (100-120 V~)	74 W (220-240 V~) 60 W (100-120 V~)	142 W (220-240 V~) 146 W (100-120 V~)
Maximum vacuum (Pa/V)	2700	2700	2250
Maximum quantity supplied (m³/h)	100	100	200
Pre filter	Glass fiber pre-filter ePM <sub>1</sub> -75% according to ISO16890 captures 40-60% of fine dust > 1 mm		
Combined filter	Standard Filter Set ZeroSmog Guard Kit (FT91000048) Wideband Gas Filter Set ZeroSmog Guard (FT91000049) Cleanroom Filter Set ZeroSmog Guard (FT91000050) Adhesives Filter Set ZeroSmog Guard (FT91000051)		



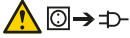
## Symbols



Caution!



Read the operating instructions!



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



ESD-compatible design and ESD-compatible workstation



CE mark of conformity



British Conformity Mark



### Disposal

Do not dispose of electric tools together with household waste material! In observance of European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

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

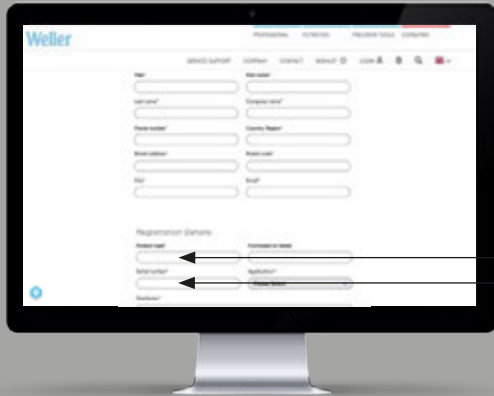
## Warranty

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.

**Subject to technical alterations and amendments.**

# Product Registration



Product Type



Serial Number