

WSA-5LR extraction unit for soldering fumes, 2 suction nozzles, 80m³/h at 1,900 Pa



The WSA-5LR extraction unit for solder fumes has 2 extraction ports with an outer diameter of 50 mm (top), 4 adjustable blow-out gills (both sides, bottom) and an optical filter indicator.

How does the WSA-5LR extraction unit work: An EC blower with a high pressure reserve generates a volumetric flow suitable for the application on the clean gas side of the filter. In this way, the pollutant-laden raw gas is extracted in a reliable manner. When soldering work is performed, soldering smoke forms out of vaporizing flux, small quantities of solder and gas-emitting substances from working circuit boards and components. This is comprised of a mixture of adhesive aerosols, particles and gases that must be removed from the raw gas.

The filter set-up used is specially designed for this purpose. An upstream filter mat

combination retains cooled, sticky aerosols in the suction line and prevents premature clogging of the subsequent H13 main filter element. Regularly changing the filter mat combination M5/F7 at shorter intervals significantly extends the functionality of the main filter. The particles contained in the soldering smoke are precipitated in a multi-stage storage filter system. Thanks to their depth penetration, the filter mats used are particularly suitable for the precipitation of soldering smokes. A majority of the particles contained in the soldering smoke are trapped at this stage. Extremely fine suspended substances are held back by the High Efficiency Particulate Air filter H13 in the combined filter cassette H13A. This guarantees a particle precipitation rate of 99.95%. The precipitation (adsorption) of gaseous and vaporous air contaminations takes place in the activated carbon bed of the combined filter cassette H13A. The filter effect of the activated carbon is based on adsorption, i.e. on the depositing of (gaseous) substances on the surface of the activated carbon.

In general, no chemical changes of the adsorbed substance take place in physical adsorption. The nominal volumetric flow of the devices is based on the filter construction, the contact period is oriented to a medium adsorption response. Thanks to the high degree of cleaning, the filtered clean gas can then be returned to the working area (recirculated-air operation). This avoids any loss of heat. Recirculated air operation is not permitted for the suctioning and filtration of carcinogenic, mutagenic or reprotoxic substances.

- Apparatus for extracting and filtering solder fumes, gases and vapours in non-explosive air mixtures
- for 1-2 workstations
- 2 Intake connection DN50
- Air outlet: blades on both sides, adjustable
- Colour RAL 7035
- Equipment: blower, maintenance-free EC drive, particle filter occupancy indicator
- Filter consisting of: Filter mat M5/F7, combination filter cassette H13A

item number	WL37325
model	WSA-5LR
manufacturer	WEIDINGER
manufacturer item number	WEID 0160.1-MD.11.02.6023
GPSR manufacturer information	Weidinger GmbH Hertha-Sponer-Str. 1a DE-82216 Gernlinden www.weidinger.eu
length	400 mm
width	350 mm
height	420 mm

order unit	1 piece
content unit	1 piece
motor rating	0.15 kW
nominal volume flow	80 m ³ /h at 1900 Pa
frequency	50/60 Hz
nominal current	0.95 A
voltage	230 V
vacuum max	3200 Pa
noise level	45 – 49 dBA
volume flow max	190 m ³ /h

