



INSTRUCTION MANUAL

Edition 1.1

IMPORTANT!

Read this manual in full before using this machine.
To qualify for extended warranty, you must register within 30
days of purchase. See inside for details.

Congratulations & Thank You

Congratulations on your purchase! Founded in regional Australia in 1979, **Weldclass** has grown to become a leading welding equipment brand across Australasia and beyond. From all of us here at Weldclass, thank you for your support!

Register Your Warranty Now

Standard warranty without registration is 12 months.

To qualify for an extended conditional 7-year warranty on your purchase you must register within 30 days of purchase.

Please register your warranty now by going to:



<http://www.weldclass.com.au/WarrantyRegistration>

You will need;

- a) A copy of your purchase invoice / receipt.
- b) Your machine serial number which can be found on the back of the machine

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1. SPECIFICATIONS

Power Supply	~415V +/- 10% 50hz Three Phase	Noise	71dBA
Motor Power	2.2kw	Filter Cleaning	Auto
Weight	~300kg	Fan material	Aluminium
Dimensions	W1580 x D780 x H1450mm		

2. KNOW YOUR MACHINE

1. Welding area shield
2. Side Wing
3. Work Surface
4. Spark Arrester (Below Work Surface)
5. Debris Filter
6. Main and Prefilter Drawer
7. Emergency button (Side panel)
8. On/Off Switch
9. Accessory Plug

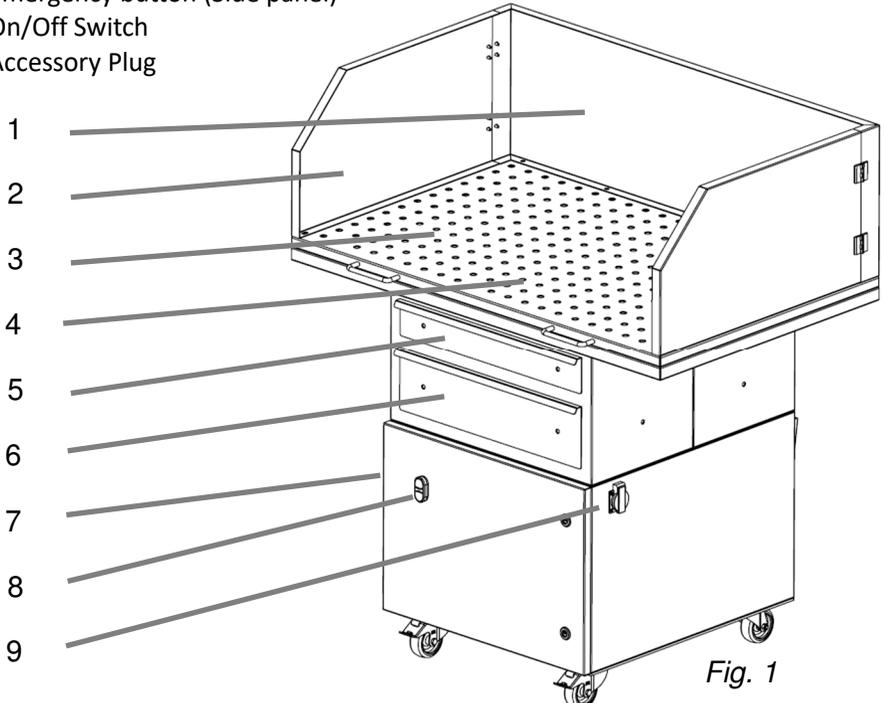


Fig. 1

3. FUNCTION AND APPLICATIONS

The filter unit ALLCLEAR TA100 is used for extracting welding and grinding fumes from directly below the weld.



Improper use of the unit can lead to malfunction, damage, and/or bodily harm.

NOT Suitable For / Should NOT Be Used For:

Extraction of any fumes containing oil mist, aluminium dust (including aluminium grinding dust), gases, water vapor*.

Applications not related to welding and grinding of metal, such as but not limited to; timber/wood, soldering, silica, asbestos, etc.

The polluted air is drawn through the table surface into the filter unit, where particles are trapped on the filter. The clean air then passes through the fan and is released back into the room through the exhaust grid.

*Aluminium dust, including grinding dust, can be explosive when airborne, and for this reason, fume extractors and downdraft tables should not be used for extraction of aluminium grinding dust (this does not apply to aluminium welding fumes, which can be safely extracted). Oil mist and gases can also cause explosion. Water vapour will damage the filter.

4. SAFETY INSTRUCTIONS

The following basic safety measures must be observed at all times. Failure to adhere may result in electric shocks, injury, fire, and other hazards:

- Read and follow the instructions listed below before using the filter systems.
- Store the operating and service instructions in a secure and readily accessible space.
- Do not employ the unit for the extraction of combustible or explosive gases.
- Do not employ the unit for setting it in explosive zones, e.g. zone 0, zone 1, zone 2, zone 20, zone 21, zone 22.
- Do not employ the unit for extracting burning or glowing materials, e.g. cigarettes, matches, metallic types of dust and/or splinters, paper, cleaning cloths, etc..

- Do not employ the unit for extracting burning and/or inflammatory materials, e.g. oils and/or oil mist, fats, parting agent (e.g. silicone spray), cleaning agent, etc..
- Do not employ the unit for the extraction of liquids of any kind.
- Do not employ the unit for extraction of any organic matters without the written permission of the manufacturer.
- Protect the connecting lead from heat, liquids, oils and sharp edges.
- Confirm the correct voltage. (Refer to the unit data plate)
- Use only original Weldclass ALLCLEAR spare parts.
- Do not operate the unit without a filter installed.
- Remove the mains plug before opening the unit.
- The exhaust grid must not be obstructed or blocked in any way.
- Always take care that the unit stands secured and that the caster brakes are set.
- Disconnect the mains plug when cleaning or servicing the unit, when exchanging any parts or when changing machine settings for a different function.
- Filter must be disposed of according to relevant legislation and directives.
- At regular intervals inspect the supply lead for signs of damage.
- The unit must not be used when there is any damage to the supply lead, a danger tag must be fitted and locked out.
- Unit must be powered on at all times during use, to provide fume extraction.
- Do not use the filter unit when any one or more components of the system are defective, missing or damaged.
- Take care when lifting worktop, to prevent crush injury. Always insert additional prop under worktop.
- Failure to adhere to the regular daily, weekly, and annual maintenance schedule outlined in this manual may result in malfunction, safety hazard including fire hazard, and/or reduced performance.

5.COMMISSIONING

The filter unit is delivered in a state ready to be plugged into mains power supply.

Prior to using the machine, install the work surface shield and side wings. Keeping side wings closed during use will greatly increase the suction performance of the table.

Ensure the spark arrestor, debris filter, prefilter and main filter are all installed securely.

5.2 Installing the shield

1. Lift the work surface
2. Get position the shield
3. Tight the bolts to the nuts with a wrench
4. Put the work sheet in place
5. Tight the thumbscrew by hand

6. MAINTENANCE

The accumulation of extracted particles on the filter will lead to a gradual reduction of the suction / extraction performance.

Operator should monitor airflow at work surface, it is recommended that if performance drops off that the operator should remove the filter cake as instructed below.

The useful service life of the filter greatly depends on the operational environment. If extraction drops below desired extraction level, the filter should be replaced. (Refer to chapter 7.1: "Filter replacement")

Caution:

When changing filter, unit must be disconnected from power, must be conducted only in well-ventilated environments and when using appropriate respiratory protection conforming to AS/NZS 1716 class P2 or P3, and conducted by trained personnel only. When disposing of dust and/or filters, follow local regulations for disposal of contaminated materials.

7.1 Filter Replacement

Replace the filter if filter is damaged and/or if/when filter becomes clogged. Only authorised / trained personnel should replace the filter

- Use protective equipment (including respirator, face, and hand protection) and ensure that other personnel stand well away from and do not contact with the unit, filter, and extracted matter. Ensure the environment is well shielded from airflow, so that dust is not disturbed.
- Disconnect the unit from mains power supply.
- Before replacing the filter, prepare the appropriate container (such as heavy-duty PE-bag or plastic bag) for disposal.
- Open the filter access drawer
- Lift out the filter box.
- Pass the disposal bag over the filter before removing the from inside the drawer. Seal the mouth of the bag with a cable tie or similar.
- Reinsert the new filter. Ensure that the filter is properly seated into the drawer.
- Close filter access drawer
- Connect the filter unit to the mains power supply.

7.2 Maintenance Schedule

Recommended maintenance schedule for this unit:

DAILY	
Visual Inspection	Check all external components (including raising and inspecting under worktop) for any visible damage or wear. Ensure all components and surfaces are free from obstruction & debris. Ensure the spark deflection plate is covering the access to the filter.
Function Test	Turn unit on and check for normal operation and airflow at work surface and exhaust outlet. Test emergency stop.
Filter Inspection	Inspect filter. To safely access the filter, follow process as per 7.1. Replace if damaged. If visibly clogged, follow replacement process 7.1.
WEEKLY	
Power Supply	Check power supply cable and connections for signs of wear or damage. Ensure plugs and connections are secure & tight.
Clean Exterior	Thoroughly clean all external components and surfaces (including under worktop) with suitable brush and/or cloth/rag.
Clean Spark Arrestor	Remove spark arrestor tray (see Fig. 1, item 5). Clean tray and spark filter with air gun.
ANNUAL	
Replace Filter	Replace filter as per 7.1, if this has not occurred within the last 12 months.
Power Supply	Follow WorkSafe and employers' guidelines for applicable test and tag of input cable and plug.
Maintenance Records	Ensure all maintenance tasks are / have been logged. Review records to ensure compliance with this schedule.

7. TROUBLESHOOTING

Fault	Reason	SOLUTION
Reduced or no suction.	Clogged suction holes	Rectify
	Damaged work surface	Rectify
	Damaged power cable	Rectify
	Air outlet obstructed	Rectify
	Pre or main filter is full	Change the filter as per instructions (Section 7.1)
	Spark arrestor clogged.	Clean with water and dry thoroughly.
	Drawers are not closed correctly.	Rectify
System doesn't power up	There is no supply power.	Check the power connections, cable and circuit breaker.
Loud noise from the fan	Imbalance in the fan or problem with fan holder	Turn it off now. Contact Weldclass
No power to the accessory plug	Extractor not turned on	Rectify. The accessory plug is only power on while the extractor is running.
	Wiring Faulty	Turn it off now. Contact Weldclass

8. DISMANTLING AND DISPOSAL

- The electronic system and the electrical connection of the unit may only be removed by authorised personnel.
- Always unplug the unit from the mains plug before disassembling.
- You must wear relevant PPE.
- Contaminated materials and filter elements must be disposed of properly according to local regulations.

9. CIRCUIT DIAGRAM

