

AIRWORX⁺

55T



KEY TO SYMBOLS

SYMBOLS ON THE MACHINE

WARNING! The machine can be a dangerous tool if used incorrectly or carelessly, which can cause serious or fatal injury to the operator or others.



Please read the operator's manual carefully and make sure you understand the instructions before using the machine.



Wear personal protective equipment. See instructions under the heading "Personal protective equipment".



WARNING! Dust forms when grinding, which can cause injuries if inhaled. Use an approved breathing mask. Always provide for good ventilation.



Environmental marking. Symbols on the product or its packaging indicate that this product cannot be handled as domestic waste.



By ensuring that this product is taken care of correctly, you can help to counteract the potential negative impact on the environment and people that can otherwise result through the incorrect waste management of this product.

For more detailed information about recycling this product, contact your municipality, your domestic waste service or the shop from where you purchased the product.

Other symbols/decals on the machine refer to special certification requirements for certain markets.

EXPLANATION OF WARNING LEVELS

The warnings are graded in three levels.

WARNING!



WARNING! Used if there is a risk of serious injury or death for the operator or damage to the surroundings if the instructions in the manual are not followed.

CAUTION!



CAUTION! Used if there is a risk of injury to the operator or damage to the surroundings if the instructions in the manual are not followed.

NOTICE!

NOTICE! Used if there is a risk of damage to materials or the machine if the instructions in the manual are not followed.

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CAUTION!

At start up:

WARNING! Grinding, especially when DRY, generates dust that comes from the material being cut, which frequently contains silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Exposure to excessive amount of such dust can cause:

Respiratory disease (affecting your ability to breathe), including chronic bronchitis, silicosis and pulmonary fibrosis from exposure to silica. These diseases may be fatal;

Skin irritation and rash.

TAKE PRECAUTIONARY STEPS:

Avoid inhalation of and skin contact with dust, mist and fumes.

Wear and ensure that all bystanders wear appropriate PPE.

AIRWORX 55T INTRODUCTION

MAKING IT TOTALLY WORX

Solutions focused and service orientated, WORX+ brings together a team with extensive collective knowledge in all facets of the concrete grinding and polishing industry. WORX+ is underpinned by a strong history of global innovation, manufacturing and distribution of concrete grinding equipment, consumables, training, support, and machine servicing. Equipped with leading contract knowledge and experience, the WORX+ team strives for laser focus delivery of Total Solutions.

From King Concepts – the Australian company responsible for designing and manufacturing dual drive grinding technology used in leading machine technology worldwide today, to the development of WORX+, renowned for pushing performance boundaries through its range of diamond tooling and equipment offerings. WORX+ continually strives towards creating products that are designed to provide leading solutions that make a real difference to contractors and their operations.

Our line-up of product offerings TOTALLY WORX. Backed with:

- TOTAL CONFIDENCE – Tried, tested and proven performance on the job for the job.
- TOTAL SUPPORT – Mechanical service and repair, training, resources, accessible advice.
- TOTAL RESULTS – We sell what you need for real results.
- TOTAL MONEY BACK GUARANTEE – Risk-free purchasing. Total satisfaction or your money back. *Terms & Conditions apply.

OUR COMMITMENT TO DUST MANAGEMENT

The WORX+ team constantly strives to push the boundaries in the world of concrete flooring.

When developing leading solutions for flooring contractors, our goal is to provide contractors with Total Confidence in their daily operations and create Total Results in their flooring and business outcomes.

The AIRWORX range is our commitment to this. Each dust extraction system in the AIRWORX line up is specifically designed for superior dust management for various concrete grinding and polishing applications – creating a safe environment for all those on the worksite while boosting productivity for the contractor.

FEATURES

Ease of use, practicality and performance are at the core of the design of the AIRWORX 55T. With its high output 3-phase 5.5kW motor and 2-stage filtration (19-filter socks), it easily provides 40% more airflow than standard machines and offers the utmost superior dust extraction.

Unlike many 3-phase vacuums, the AIRWORX 55T comes in a compact size, allowing for easy van/trailer storage and transportation! Other handy features include auxiliary power, radio-controlled stop/start, and a VSD for easy power diagnostics – truly a dust management system like no other.

- Frequency frequency-controlled vacuum pump offering the following benefits:
 - i. 40% more airflow than standard machines on regular power supply.
 - ii. Variable suction control (can be used for hand grinders through to large floor grinding machines).
 - iii. Generator-friendly soft start.
 - iv. Sophisticated electronic motor protection.
 - v. Automatic direction correction.
- Time-saving radio controlled on/off (but also includes manual on/off).
- Reliable 2-stage filter sock & micro filter particle filtration.
- Large puncture-proof wheels for easy transportation over rougher surfaces.
- Excellent ground clearance.
- Fits through standard doors.
- Rear “bull horns” for transportation of power leads & vacuum hoses.
- Easily folds forward to enable compact transportation.
- Unique bag-disposal system for containment of messy and hazardous substances.
- Washable polyester filters.
- Power outlet for grinding machine.
- Highly mobile & flexible unit.
- All metal super-industrial strength construction.
- 3” (75mm) hose inlet.
- Quiet operation with integrated WORX+ silencer.
- Efficient filtration – 99.9% @ 1µm particle size.



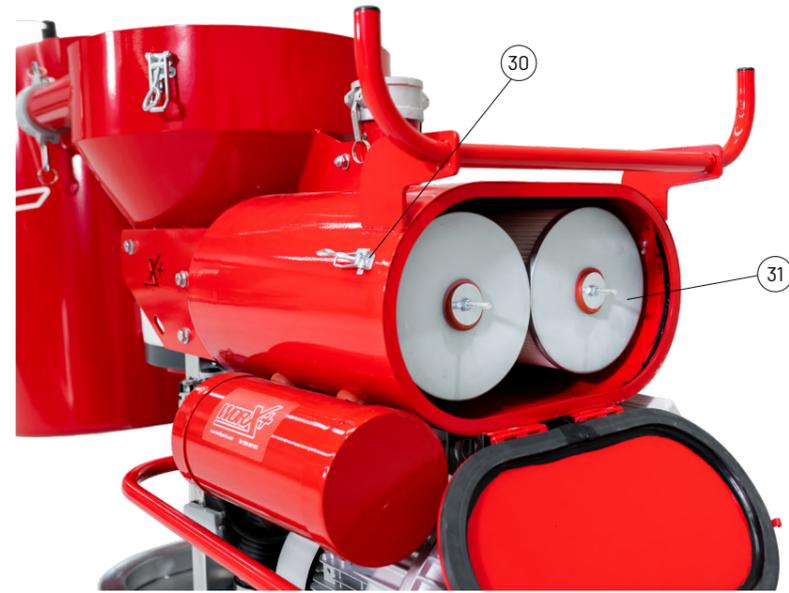
AIRWORX 55T PARTS LEGEND

PART NO.	PRODUCT NAME	PRODUCT CODE
1	Primary Filter Housing	0756-1108
2	Vacuum Hose Inlet	0753-2603
3	Collection Cone/Cylinder	0756-2013
4.1	Elastic Strap	0750-1500
4.2	Longo Pack Collar	0660-2307
5	Dust Flap	0756-2228
6	Chassis/Frame	
7	Castor Wheel - Lockable	0780-3406
8	Filter Link Hose	
9	Filter Link Hose Coupling - Male	0753-2702
10	Filter Link Hose Coupling - Female	0753-2603
11	Toggle Latch, Primary Filter	0750-4006e
12	Toggle Latch, Silo	0750-3801
13	Secondary Filter Housing	0756-3119
14	Side Rails	0756-4727 Left + 0756-4710 right
15	Weatherproof Double Powerpoint (10 Amp)	0743-1203
16	Power Button	0741-3407
17	Emergency Stop Button	0741-3506
18	Inverter Keypad	0762-4209
19	Frequency Inverter	0756-6110
20	Switch (Remote "R" / Manual "M")	0741-3308
21	Overload Indicator	0740-2104
22	Power regulator/Suction Control	0741-1403
23	Silencer	0750-8400
24	Secondary Filter Housing Door	
25	Rear Safety U-Bar	0756-4116
26	Vacuum Pump/Motor	0740-4108
27	Auxiliary power Insert	0742-0900
28	Winch Point	
29	Puncture-Proof Wheels	0780-3604



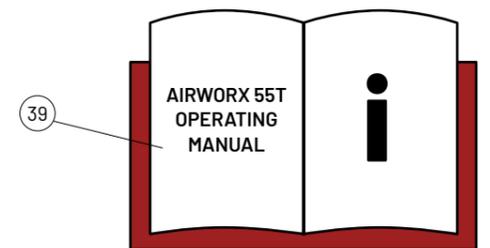
AIRWORX 55T PARTS LEGEND

PART NO.	PRODUCT NAME	PRODUCT CODE
30	Secondary Filter Latch	0750-4006
31	Secondary Filters	0752-2901
32	Primary Filters	0752-3700
33	Primary Filter Sock Rack	0756-1214



ANCILLARY PARTS

PART NO.	PRODUCT NAME	PRODUCT CODE
34	50mm Floor Tool & Wand	0662-1124 + 0662-2121
35	Machinery Leads	On Request
36	Hose with Fittings	0661-4218
37.1	Individual Bags 200/PK	0660-1102
37.2	CONTINUOUS BAGS	0660-1201
38	FOB Key	0740-7208
39	AIRWORX 55T Operator Manual	



ASSEMBLING AND ADJUSTMENTS

CONNECT THE MACHINE

GENERAL

NOTICE!
Ensure vacuum switch is set to vertical "OFF POSITION" (see page 13) prior to turning on power

- The machine should be connected to an earthed outlet socket. See instructions in the section "Operation".

DRY USE

- Fit a plastic bag over the collection cone.



- Connect the power cable from the grinder to the power outlet on the dust extractor.



- Connect the grinder's hose from the tool to the vacuum hose inlet on the machine.



- Connect the power cable of the vacuum to the power supply.

OPERATION (SLURRY MANAGEMENT)



CAUTION! It is strongly advisable that all operators use a dust mask/respirator when removing primary filter socks from the machine.

The AIRWORX 55T can also be used for collection of wet materials such as slurry formed from the wet grinding process.

In order to use the machine for slurry collection, simply re-

- Undo the filter link hose coupling.



- Release the primary filter housing toggle latches and fold down the silo.



- Release the primary filter toggle latches.



- Lift out the primary filter.

SAFETY

PROTECTIVE EQUIPMENT

GENERAL

Do not use the machine unless you are able to call for help in the event of an accident.

PERSONAL PROTECTIVE EQUIPMENT

You must use approved personal protective equipment whenever you use the machine. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your dealer for help in choosing the right equipment.



WARNING! The use of products such as cutters, grinders, drills, that sand or form material can generate dust and vapors which may contain hazardous chemicals. Check the nature of the material you intend to process and use an appropriate breathing mask.



WARNING! Long-term exposure to noise can result in permanent hearing impairment. So always use approved hearing protection. Listen out for warning signals or shouts when you are wearing hearing protection. Always remove your hearing protection as soon as the engine stops.



WARNING! There is always a risk of crush injuries when working with products containing moving parts. Wear protective gloves to avoid body injuries.



WARNING! All airborne dust is hazardous to health. Prevention of dust exposure should always be of the highest priority. Wear approved protective clothing, masks and/or respirators.

ALWAYS WEAR INDUSTRY APPROVED:

- Protective helmet,
- Hearing protection,
- Protective goggles or a visor,
- Breathing mask,
- Heavy-Duty Firm Grip Gloves,
- Tight-fitting, heavy-duty and comfortable clothing that permits full freedom of movement,
- Boots with steel toe-caps and non-slip sole.

Be careful as clothing, long hair, and jewelry can get caught in moving parts.

GENERAL SAFETY PRECAUTIONS



WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

This section describes basic safety directions for using the machine. This information is never a substitute for professional skills and experience.

- Please read the operator's manual carefully and make sure you understand the instructions before using the machine. **Save all warnings and instructions for future reference.**
- Keep in mind that the operator is responsible for accidents or hazards occurring to other people or their property.
- All operators shall be trained in the use of the machine. The owner is responsible for ensuring that the operators receive training.
- The machine must be kept clean. Signs and stickers must be fully legible.



WARNING! The machine can be a dangerous tool if used incorrectly or carelessly, which can cause serious or fatal injury to the operator or others. Never allow children or other persons not trained in the use of the machine to use or service it. Never allow anyone else to use the machine without first ensuring that they have understood the contents of the operator's manual.

SAFETY

Never use the machine if you are fatigued, while under the influence of alcohol or drugs, medication or anything that could affect your vision, alertness, coordination or judgement.

There is always a risk of shocks from electrically powered machines. Avoid unfavorable weather conditions and body contact with lightning conductors and metal objects. Always follow the instructions in the Operator's manual to avoid damage.



WARNING! Unauthorized modifications and/or accessories may lead to serious injury or death to the user or others.

Do not modify this product or use it if it appears to have been modified by others.

Never use a machine that is faulty. Carry out the checks, maintenance and service instructions described in this manual. Some maintenance and service measures must be carried out by trained and qualified specialists. See instructions under the heading Maintenance.

Always use genuine accessories.

ELECTRICAL SAFETY



WARNING! There is always a risk of shocks from electrically powered machines. Avoid unfavorable weather conditions and body contact with lightning conductors and metal objects. Always follow the instructions in the Operator's manual to avoid damage.

Never connect the machine to a outlet if plug or

- Check that the mains voltage corresponds with that stated on the rating plate on the machine.
- Inspection and/or maintenance should be carried out with the motor switched off and the plug disconnected.
- Always shut down the machine before disconnecting the power plug.
- Always unplug the machine during longer work breaks.
- Never drag the machine by means of the cord and never pull out the plug by pulling the cord. Hold the plug to disconnect the power cord.
- Never use the machine if any cable or plug is damaged, but hand it in to an authorized service workshop for repair.
- The machine must never be driven to such a depth in water that it reaches up to the machine's equipment. The equipment can be damaged and the machine can be live, resulting in personal injuries.

GROUNDING INSTRUCTIONS



WARNING! Improper connection can result in the risk of electric shock. Contact a qualified electrician if in doubt as to whether the appliance is properly grounded.

Do not modify the plug. If it will not fit the outlet have a proper outlet installed by a qualified electrician. Make sure local regulations and ordinances are followed.

If the grounding instructions are not fully understood contact a qualified electrician.

- The machine is equipped with a grounded cord and plug and should always be connected to a grounded outlet. This reduces the risk of electric shock in the event of malfunction.

EXTENSION CORDS AND CABLES

- The marking on the extension cable must be the same or higher than the value stated on the machine's rating plate.
- Use grounded extension cables.
- **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- Keep the connection to the extension cord dry and off the ground.
- Keep cable away from heat, oil, sharp edges or moving parts. Damaged or entangled cable increase the risk of electric shock.
- Check that the cables are intact and in good condition.
- Never use the machine if any cable or plug is damaged, always use an authorized service workshop for repair.
- To avoid overheating do not use the extension cord while it is rolled up.
- Ensure the cord is behind you when you start to use the machine so that the cord will not be damaged.

PERSONAL SAFETY

- Wear personal protective equipment. See instructions under the heading "Personal protective equipment".
- Never use the machine if you are tired, if you are under the influence of alcohol, or if you are taking medication that could affect your vision, your judgement or your coordination.
- Never allow anyone else to use the machine without first ensuring that they have understood the contents of the operator's manual.
- All operators shall be trained in the use of the machine. The owner is responsible for ensuring that the operators receive training.
- People and animals can distract you causing you to lose control of the machine. For this reason, always remain concentrated and focused on the task. Never allow children to use or be in the vicinity of the machine.
- Be careful as clothing, long hair, and jewelry can get caught in moving parts.
- There is always a risk of crush injuries when working with products containing moving parts. Keep your distance!
- Make sure that there is always another person close at hand when you use the machines, so that you can call for help if an accident should occur.
- Never leave the machine unsupervised with the motor running. Always unplug the machine during longer work breaks.

- Check that no tools or other objects have been left lying on the machine.
- Always ensure you have a safe and stable working position.

USE AND CARE

- The AIRWORX 55T dust extraction/vacuum unit is designed for wet or dry materials and slurry.
- The machine is intended for use in industrial applications by experienced operators.
- Inspection and/or maintenance should be carried out with the motor switched off and the plug disconnected.
- Keep all parts in good working order and ensure that all fixtures are properly tightened.
- The machine should not be started without the dust collection bag attached.

TRANSPORT AND STORAGE

- It is highly recommended that a dust collection bag be fitted to the machine at all times whether in use or transportation.
- At no time should lifting of machinery be attempted without mechanical means such as a hoist or fork lift.
- Secure the equipment during transportation in order to avoid transport damage and accidents.
- The machine should be transported under cover where possible, limiting the exposed to natural elements – in particular rain and snow. It is recommended that machinery be transported upright where possible.
- Store the equipment in a lockable area so that it is out of reach of children and unauthorized persons.
- Store the machine and its equipment in a dry and frost proof place.

LIFTING/HOISTING

- The AIRWORX 55T can be lifted with load rated straps/chains.
- Lifting using straps/chains should only be done by connection to machine chassis. It should NOT be done via handle, motor, brackets, etc.

ALWAYS USE COMMON SENSE

It is not possible to cover every conceivable situation you can face. Always exercise care and use your common sense. If you get into a situation where you feel unsafe, stop and seek expert advice. Contact your dealer, service agent or an experienced user. Do not attempt any task that you feel unsure of!

WORK SAFETY

WORK AREA SAFETY

- Do not use the machine in bad weather, such as heavy rain, snow, etc.
- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- The machine should not be used in areas where potential for fire or explosions exist.

STARTING AND STOPPING

BEFORE STARTING



WARNING! Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

Wear personal protective equipment. See instructions under the heading "Personal protective equipment".

Make sure no unauthorized persons are in the working area, otherwise there is a risk of serious personal injury.

- Check that the machine is assembled correctly and does not show any signs of damage. See instructions in the section "Assembling and adjustments".
- Perform daily maintenance. See instructions in the section "Maintenance".

CHANGING THE DUST BAGS

Once the dust bag has collected around 20 kg of dust, to avoid lifting hazards caused by overfilling of dust bags, the dust bag should be changed.

- Clear the primary filters. See instructions under the heading "Cleaning the primary filters".
- Switch the machine back into ON position holding the dust flap closed. (You will notice the air is sucked from the plastic bag.)
- Tie bag off below the collection cone using a cable tie or other bag tie.
- Release elastic strap and remove sealed bag.

IMPORTANT! Use extreme caution when releasing and reattaching elastic straps.

- Using the elastic strap, attach new empty plastic bag (you will notice the air is sucked from the plastic bag).
- The machine is now ready to be used for dust collection again.

IMPORTANT! It is important to keep the vacuum running during the bag changing process. This will keep the valve in the collection cone closed ensuring no dust will drop out from within the collection cone when the dust bag is being changed.

STARTING

- Position the vacuum in the working area.
- Ensure a dust collection bag is fitted to the collection cone.
- Check that the suction hose is secured to the connector.



WARNING! Ensure the vacuum is set to the OFF position and the EMERGENCY STOP button is released by turning prior to turning on the power supply.

- Plug vacuum into the power supply.
- Release **EMERGENCY STOP** button by turning.
- Press green **POWER** button.
- Wait for **RDY LIGHT** on frequency inverter to light up green.



- Select desired level of suction using dial.



POWERING DOWN

- Turn the switch to the **OFF** position



- Press **EM STOP** button.



RED WARNING LIGHT FUNCTION



- **RED LIGHT** on inverter switch panel will turn on when vacuum motor reaches its current limit.
- To avoid motor damage turn down suction regulator.

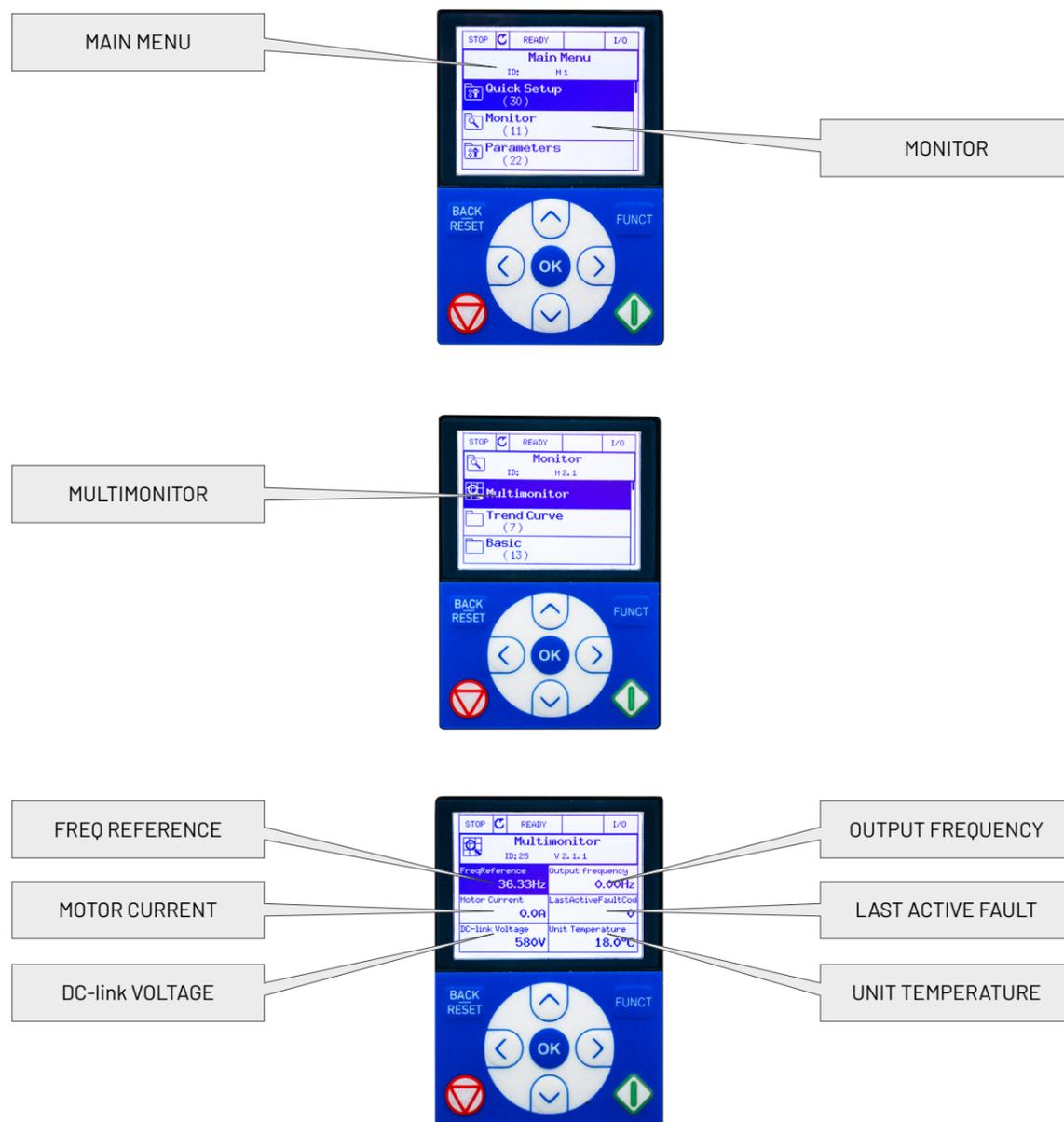
FREQUENCY INVERTER KEYPAD - MULTI MONITOR DISPLAY



NOTICE! At delivery the AIRWORX 55T Frequency Inverter Keypad is set up to show the "Multimonitor" parameters. All basic important machine parameters can be derived from this setting.

PATHWAY TO MULTI MONITOR DISPLAY ON FREQUENCY INVERTER KEYPAD

- Use the "LEFT", "RIGHT", "UP" and "DOWN" arrow buttons as well as the "OK" and "BACK" buttons,
- Navigate the keypad to reach desired keypad display info.



KEYPAD - MULTI MONITOR SCREEN

FREQUENCY REFERENCE	Frequency the motor is being asked to run at (if Output Frequency is below Frequency Reference, then it's most likely the machine has reached its current limit threshold). Suction/Speed should be reduced in this case.
OUTPUT FREQUENCY	Frequency the current has the motor running at (this should be the same as the Reference Frequency).
DC-LINK VOLTAGE	This is a measure of the "quality" of the power coming to the machine. It can be observed that this will have a lower value when the machine is running compared to when it is in stand-by-mode. The lower this drops when the machine is running, the more current the machine will draw to compensate. Stand-by DC-Link Voltage should be at least 575V and not drop below 550V when running for effective operation of the machine. If lower levels are experienced then power supply to the machine must be examined.
MOTOR CURRENT	This is a measure of machine current draw. This will vary depending on the speed/suction power the machine is set to, and also the quality of power supply to the machine (see DC-Link Voltage).
LAST ACTIVE FAULT*	When the control diagnostics of the AC drive find an unusual condition in the operation of the drive, the drive shows a notification about it. You can see the notification on the display of the control panel. The display shows the code, the name and a short description of the fault or alarm. The faults stay in the Fault History where you can go and examine them. <i>NOTE: Before you contact WORX+ AUSTRALIA or any of their distributors because of unusual operation of the AIRWORX 55T, prepare some data.</i> <i>Take a photo or write down all the texts on the display, the fault code, the fault ID, the source info, the Active Faults list and the Fault History.</i>
UNIT TEMPERATURE	Frequency Inverter's internal temperature.

*FAULT TRACING

A FAULT COMES INTO VIEW

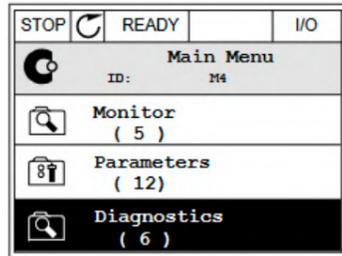
When the drive shows a fault and stops, examine the cause of fault, and reset the fault. There are 2 procedures to reset a fault: with the Reset button and with a parameter.

RESETTING WITH THE RESET BUTTON

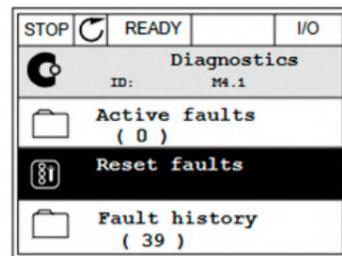
1. Push the Rest button on the keypad for 2 seconds.

RESETTING WITH A PARAMETER IN THE GRAPHICAL DISPLAY

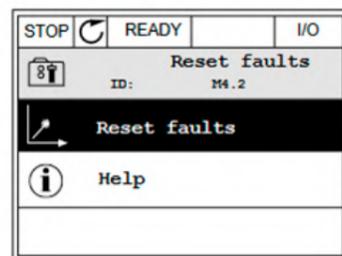
1. Go to the Diagnostics Menu.



2. Go to the submenu Reset faults.



3. Make a selection of the parameter Reset Faults.



MAINTENANCE

GENERAL



WARNING! The user must only carry out the maintenance and service work described in this manual. More extensive work must be carried out by an authorized service workshop.

The machine should be switched off with the power cable disconnected from the outlet.

Wear personal protective equipment (PPE). See instructions under the heading "Personal protective equipment". It is strongly advisable that all operators use a dust mask/ respirator when changing dust bags or performing maintenance on the machine.

The life span of the machine can be reduced and the risk of accidents can increase if machine maintenance is not carried out correctly and if service and/or repairs are not carried out professionally. If you need further information please contact your nearest servicing dealer.

DAILY MAINTENANCE

- Check that the machine's safety equipment is undamaged. See instructions in the section "Machine's safety equipment".
- Check that the cord and extension cord are intact and in good condition.
- Clean the outside of the machine.
- It is highly recommended that operators check dust levels inside secondary filter housing on a daily basis. If when inspected, it is found that there is dust building up inside the secondary filter housing, it is recommended to remove the primary filters and check for small holes or perforations. Usually, small holes will begin to develop around the stitching of the filter media. If small holes are located, clean area around hole with either compressed air or vacuum. Once area is clean, the hole can be repaired with silicone sealant. If no small holes or perforations are found, check filter seals in the primary filter housing assembly and make sure they are fitted correctly.



IMPORTANT: For all types of service/ maintenance works appropriate PPE must **ALWAYS** be worn!

CLEANING THE PRIMARY FILTERS

After every 10-20 minutes of operation, the primary filters will need cleaning as dust will buildup on the inside of the filter socks. An increase in residual dust on the ground behind the grinder will be noticed.

- Switch the machine to the OFF position.



- Once the machine is completely without suction lightly rock the machine from front to back by placing your foot on the front plate (1) and holding the handle (2). While this is happening you will notice all the dust from inside the unit drop into the plastic bag attached to the collection.

CHANGING THE DUST BAGS

Once the dust bag has collected around 20 kg of dust, to avoid lifting hazards caused by overfilling of dust bags, the dust bag should be changed.

- Clear the primary filters. See instructions under the heading "Cleaning the primary filters".
- Switch the machine back into ON position holding the dust flap closed. (You will notice the air is sucked from the plastic bag.)
- Tie bag off below the collection cone using a cable tie or other bag tie.
- Release elastic strap and remove sealed bag.



IMPORTANT! Use extreme caution when releasing and re-attaching elastic strap.

MAINTENANCE

- Using elastic strap, attach new empty plastic bag (you will notice the air is sucked from the plastic bag).
- Machine is now ready to be used for dust collection again.



IMPORTANT! It is important to keep vacuum running during the bag changing process. This will keep the valve in the collection cone closed ensuring no dust will drop out from within the collection cone when bag changing is being performed.

- Release the Primary Filter Toggle Latches.



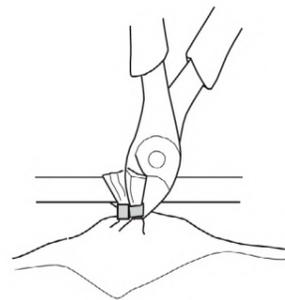
- Lift out the Primary Filter Sock Rack.



- Squeeze the snap-lock end of the filter sock, so that filter sock can be removed from the sock rack base.



- Remove the cable ties on the opposite end of the filter sock using a side cutter.



- Dispose of the used sock filters. Minimize dust exposure!

REPLACING PRIMARY FILTERS

With consistent use, the Primary Filters should be replaced approximately every 6 months. This will maintain good suction levels and reduce incidence of holes developing in the filters.



IMPORTANT: For all types of service/ maintenance works appropriate PPE must **ALWAYS** be worn!

- Undo the filter link hose coupling.



- Release the Primary Filter Housing Toggle Latches and fold down the silo.

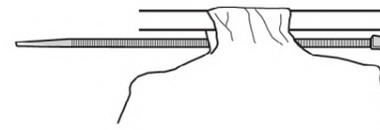


FITTING NEW SOCK FILTERS

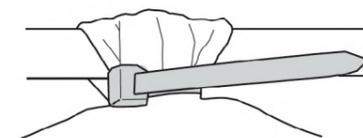
- Squeeze the snap-lock end of the filter sock, so that the filter sock can be fit to the sock rack base.



- Make sure the snap-lock groove sits tight and without gaps in the sock rack base.
- Fit the cable tie in the loop on the filter sock and fold the loop over the rack.



- Wrap the cable tie around the loop base and tighten the cable tie, making sure not to damage any stitching on the filter sock surface.



- Fit the primary filter sock rack into the silo. Assemble the parts in the reverse order.

REPLACING SECONDARY FILTERS



NOTICE! The secondary filters are made from a polyester filter media and should be changed every 12 months. H Class filters must be replaced at 12 month intervals.

- Release the secondary filter toggle latches and open the secondary filter housing door. (H Class Vacuums will have a locking pin and nut.)



- Remove the filter nut with a 13 mm spanner. Take care of the big washer and silicone washer.
- Pull out the filter. Clean the filter or fit a new one. H Class filters must be replaced at 12 month intervals.



- Assemble the parts in the reverse order.

On re-installation of the secondary filter, ensure the seals are firmly pressed against the wall of the secondary filter housing. This contact can be assessed by looking down through the filter link hose coupling.

Filters that have been used wet will need replacing if they were not fully dry before next operation.

SERVICE



IMPORTANT! All types of repairs may only be carried out by authorized service mechanics. This is so that the operators are not exposed to great risks.

TROUBLESHOOTING

TROUBLESHOOTING



WARNING! Most accidents involving machines occur during trouble shooting, service and maintenance as staff have to locate themselves within the machine's risk area. Prevent accidents by being alert and by planning and preparing the work.

The engine should be switched off during operations described in this chapter unless otherwise stated.

ALL checks involving electric components should only be performed by a licensed electrician!

PROBLEM	POSSIBLE CAUSE	POSSIBLE ACTION
The machine will not power up	The machine has no incoming or outgoing power.	Check that the power cable is connected and the machine turned on. Test for presence of power at the power source using a WORX+ test plug or have a licensed electrician check the presence of power in the source and within the machine.
	Damaged cables.	Contact a licensed electrician or an authorized workshop.
The machine won't Run	Check Operation switch is in "RC" or "ON" position.	Contact a licensed electrician or Authorized Workshop.
	Issue in "operation" switch.	Contact a licensed electrician or Authorized Workshop.
	Issue in Motor.	Contact your service agent
The machine is in Run but motor isn't spinning	Problem with the Speed Control.	Check its not set to 0. Contact a licensed electrician or Authorized Workshop.
The machine is blowing instead of sucking	Problem with Frequency Inverter.	Contact a licensed electrician or Authorized Workshop.
The machine will run but there is not power at the 240v accessory power outlet	Unit not correctly connected.	Check that the unit is correctly connected and properly powered up. (E.g. safety breaker and emergency stop are in the correct position on the grinder.)
	No power at the accessory power outlet.	Contact a licensed electrician or Authorized Workshop.
The machine does not have much suction	Filters blocked with dust.	Clean or replace filters.
	Dust flap not sealing correctly.	Adjust flap in the bottom of collection cone to proper closing. If the flap is not functioning the filters will be blocked by dust sucks.
The machine is blowing dust out the exhaust	Secondary filters not properly installed.	Ensure the filters are fitted correctly.
	Secondary filters need replacing.	Replace filters.*
	One of the primary filters has come loose.	Ensure the filters are fitted correctly.
	Holes or perforations in the primary filters.	Small holes can be repaired/patched using silicone sealant.

*If large amounts of dust is present in the secondary filter housing this indicates a problem with the primary filters.

FAULT TRACING ON THE VACON FREQUENCY CONVERTER



When a fatal fault is detected by the frequency converter control electronics, the drive will stop and the symbol "FT" and the fault code blinked on the display are in the following format, e.g.:

FT 2 Fault code (2 = overvoltage)

The active fault can be reset by pressing BACK/RESET button when the API (application programming interface) is in active fault menu level (FT XX), or pressing BACK/RESET button with long time (>2s) when the API is in active fault submenu level (F5.x), or via the I/O terminal or field bus. Reset fault history (long push >5s), when the API is in fault history submenu level (F6.x). The faults with subcode and time labels are stored in the Fault history submenu which can be browsed. The different and most common fault codes, their causes and correcting actions are presented in the table below.

FAULT CODE	FAULT NAME	POSSIBLE CAUSE	CORRECTING ACTIONS
1	Overcurrent	Frequency converter has detected too high a current to motor: <ul style="list-style-type: none"> Sudden heavy load increase Short circuit in motor cables Low voltage 	Check loading. Check cables.
3	Earth fault	Current measurement has detected extra leakage current at start: <ul style="list-style-type: none"> Insulation failure in cables or motor 	Check motor cables and motor.
9	Undervoltage	The DC-link voltage has gone below the internal safety limit: <ul style="list-style-type: none"> Most probable cause: supply voltage is too low Frequency converter internal fault Power outages Missing phase 	In case of temporary supply voltage break reset the fault and restart the frequency converter. Check the supply voltage. If it is adequate, an internal failure has occurred. Contact the nearest distributor!
16	Motor overtemperature	Motor overheating has been detected by frequency converter motor temperature model. Motor is overloaded.	Decrease the motor load. Decrease motor current (reduce suction/speed).

TROUBLESHOOTING

MAINTENANCE SCHEDULE

ITEM	CHECKPOINT	STEPS	FREQUENCY
Inspection of micro filters	Check for dust levels between filter sock platform and secondary filter.	Check for small holes or perforations in the primary filter. Repair with silicone sealant after cleaning with compressed air or vacuum. Check assembly of primary filter seal.	Daily
Primary filter socks		Regular replacement	Do this every six months.
Secondary filter		Secondary filter may be washed with water. Ensure the filter is dry prior to re- installation. On re-installation ensure seal is firmly pressed against the steel vacuum motor mounting plate.	Replacement every 12 months.

TECHNICAL DATA

TECHNICAL DATA

	AIRWORX+ 55T
Power, kW/hp	5.5 / 7.38
Rated voltage, V	380-480
Rated current, A	16A Max; 6A-12A normal use depending on speed setting.
Power supply	3 phase
Air flow (approx.) m ³ /h / cf/m	650 / 382.58
Max. vacuum, mbar / psi	300 / 4.35
Suction inlet diameter mm / inch	75 / 3
Primary filtration surface area, m ² / sq. ft.	2.2 / 24
Micro filter surface area, m ² / sq. ft.	6.5 / 70
Weight, kg / lbs	260 / 573
Size:	
Upright (LxWxH), mm / inch	1200x760x1710 / 47x30x67
Folded (LxWxH), mm / inch	1830x760x1335 / 72x30x52

