

INSTRUCTION MANUAL

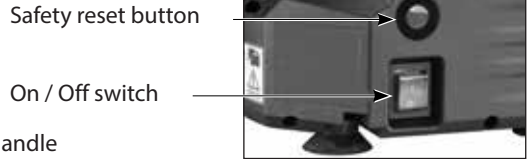
For your personal safety, READ and UNDERSTAND before using.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

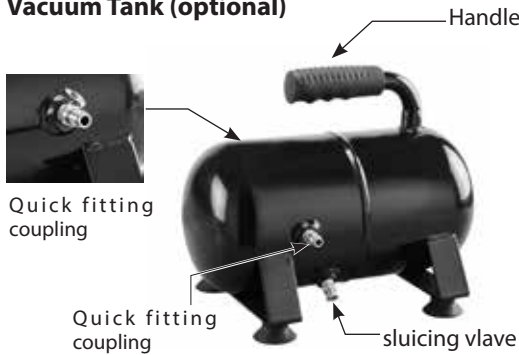


CE CB

VACUUM PUMP



Vacuum Tank (optional)



Power input	200W
Voltage	See machine nameplate
Air Flow	30.5 l/min (1.07cfm)
Max. Vacuum	-0.9 bar (-13psi)
Protection	IPX4
Dimensions	310mm x 238mm x 250mm
Net Weight	6.7kg (14.74 Lbs)(No include power supply cord)

STANDARD ACCESSORIES

* Air Hose 2.5M

OPTIONAL ACCESSORIES

* Vacuum Tank

* Air Hose 1M

GENERAL SAFETY INSTRUCTIONS



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.

Save all warnings and instructions for future reference. The term “power tool” in the warnings refers to your mainsoperated (corded) power tool or battery-operated (cordless) power tool.

1) WORK AREA SAFETY

- a. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) ELECTRICAL SAFETY

- a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.**
Unmodified plugs and matching outlets will reduce risk of electric shock.
- b. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil,**

sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

- e. **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.
- f. **If operating a power tool in a damp location is unavoidable, use an earth leakage circuit breaker.** Use of an earth leakage circuit breaker reduces the risk of electric shock.

3) PERSONAL SAFETY

- a. **a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b. **b) Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f. **Dress properly. Do not wear loose clothing**

or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

- g. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

4) POWER TOOL USE AND CARE

- a. Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b. Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f. Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g. Use the power tool, accessories and tool**

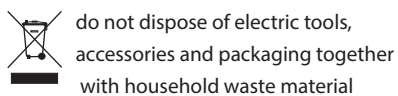
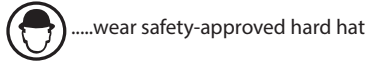
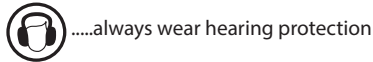
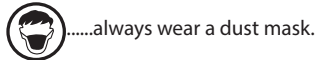
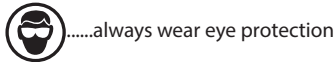
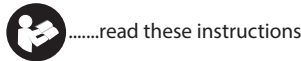
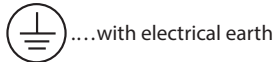
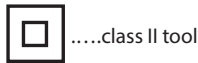
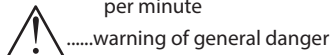
bits etc., in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5) SERVICE

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Symbols used in this manual

- V.....volts
- A.....amperes
- Hz.....hertz
- W.....watt
- ~.....alternating current
- n_0no load speed
- min⁻¹.....revolutions or reciprocation
- per minute



IMPORTANT: Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

TERMINOLOGY USED IN THE MANUAL

- 1. Warning: This term means that there is a risk of physical harm or death to the operator or people nearby.**
- 2. Caution: This term means that there is a risk of damage to the machine, cutting tool or other equipment.**
- 3. Note: These terms offer useful information relating to the operation of the machine or its maintenance.**

SPECIFIC SAFETY RULES

- 1. Maintain proper footing and balance at all times.**
- 2. Always wear appropriate safety equipment when operating.**
- 3. Never operate** the tool in an area with flammable solids, liquids, or gases.
- 4. There are certain applications for which this tool was designed.** The manufacturer strongly recommends that this tool NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the tool until you have written the manufacturer and have been advised.
- 5. Keep power supply cord clear from the working range of the machine.** Always lead the cable away behind you.
- 6. Immediately switch off the machine if unusual vibrations or if other malfunctions occur.** Check the machine in order to find out the cause.

FUNCTIONAL DESCRIPTION

When need to quick set up of the drilling stand or it is not permitted to drill a hole for a mechanical anchor, our vacuum pump is a good tool to be used on a flat surface. It is compact excellent weight balance and superb ergonomics make this tool easy to use. Built-in a pressure gauge easy to see the suction pressure and a warning buzzer system once suction power is loosen.

ELECTRICAL CONNECTION

The network voltage must conform to the voltage indicated on the tool name plate. Under no circumstances should the tool be used when the power supply cable is damaged. A damaged cable must be replaced immediately by an authorized Customer Service Center. Do not try to repair the damaged cable yourself. The use of damaged power cables can lead to an electric shock.

EXTENSION CABLE

If an extension cable is required, it must have a sufficient cross-section so as to prevent an excessive drop in voltage or overheating. An excessive drop in voltage reduces the output and can lead to failure of the motor. The following table shows you the correct cable diameter as a function of the cable length for this machine. Use only approved extension cables. Never use two extension cables together. Instead, use one long one.

Total Extension Cord Length (feet)	Cord Size (AWG)
25	16
50	12
100	10
150	8
200	6

UNPACKING

Carefully remove the tool and all loose items from the shipping container.

Retain all packing materials until after you have inspected and satisfactorily operated the machine.

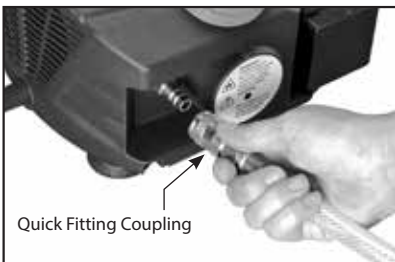
CARTON CONTENTS

1. Vacuum Pump
2. Air hose
3. Instruction manual

DO NOT OPERATE THIS TOOL UNTIL YOU READ AND UNDERSTAND THE ENTIRE INSTRUCTION MANUAL

TO INSTALL A AIR HOSE:

1. Unplug the machine.
2. The supplied air hose is equipped with the quick fitting coupling. Push on the quick fitting coupling and it will snap down. Double check to ensure that the air hose is fully locked onto the vacuum pump and the drilling stand.



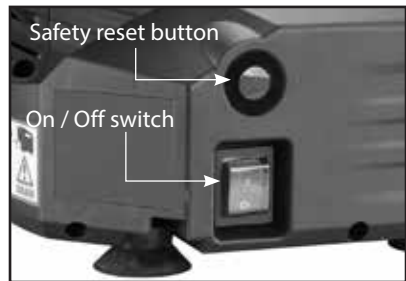
WARNING BUZZER

The tool is equipped with the warning buzzer. It will buzz if the vacuum is under -0.7 bar for safety notice.

STARTING AND STOPPING TOOL

Make sure that the power circuit voltage is the same as that shown on the specification plate of the machine and that switch is "OFF" before connecting the tool to the power circuit.

The tool must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way.



HOW TO USE THE TOOL

VACUUMING OPERATIONS

1. Install the air hose.
 - Plug the hose to the vacuum pump.
 - Plug the hose to the vacuum kit of the vacuum base.
 - Open the air switch of the vacuum system.
2. Connect the tool electric plug into the electric socket of the vacuum pump.
3. Once the tool is set up and all safety measures and equipment are in place, begin by turning on the electricity switch of the vacuum pump.
4. Once the vacuum reaches -0.7 bar, the warning buzzer will stop buzzing.
5. Push the safety reset button to transmit power to the connected tool.
6. If you connect our vacuum pump to a drill stand, after checking the correct installation of the drill stand, you can start drilling.
 - Do not make drilling operations when the

warning sign is buzzing or when the pressure gauge indicates a value lower than -0.7 bar.

- When the vacuum becomes unexpected lower than -0.7 bar, the buzzer will start buzzing and the electric power to the tool will cut off automatically.
7. Stop the vacuum pump by turning off the switch.
 8. Drain water by pushing the button of the water filter with cartridge.



9. Removal of the connected tool, the vacuum base and the air hose is the opposite of assembly.

VACUUM TANK (OPTIONAL)

The tool could be used with the vacuum tank. Once the power is cut suddenly, the vacuum tank could keep on providing vacuum for a long period. The vacuum won't be cut suddenly and it could prevent from possible dangerous.

Drain water by loosening the sluicing valve.



MAINTENANCE

Every 50 hours of operation blow compressed air through the motor while running at no load to clean out accumulated dust. (If operating in especially dusty conditions, perform this operation more often.)

KEEP TOOL CLEAN

Periodically blow out all air passages with dry compressed air. All plastic parts should be cleaned with a soft damp cloth. NEVER use solvents to clean plastic parts. They could possibly dissolve or otherwise damage the material.

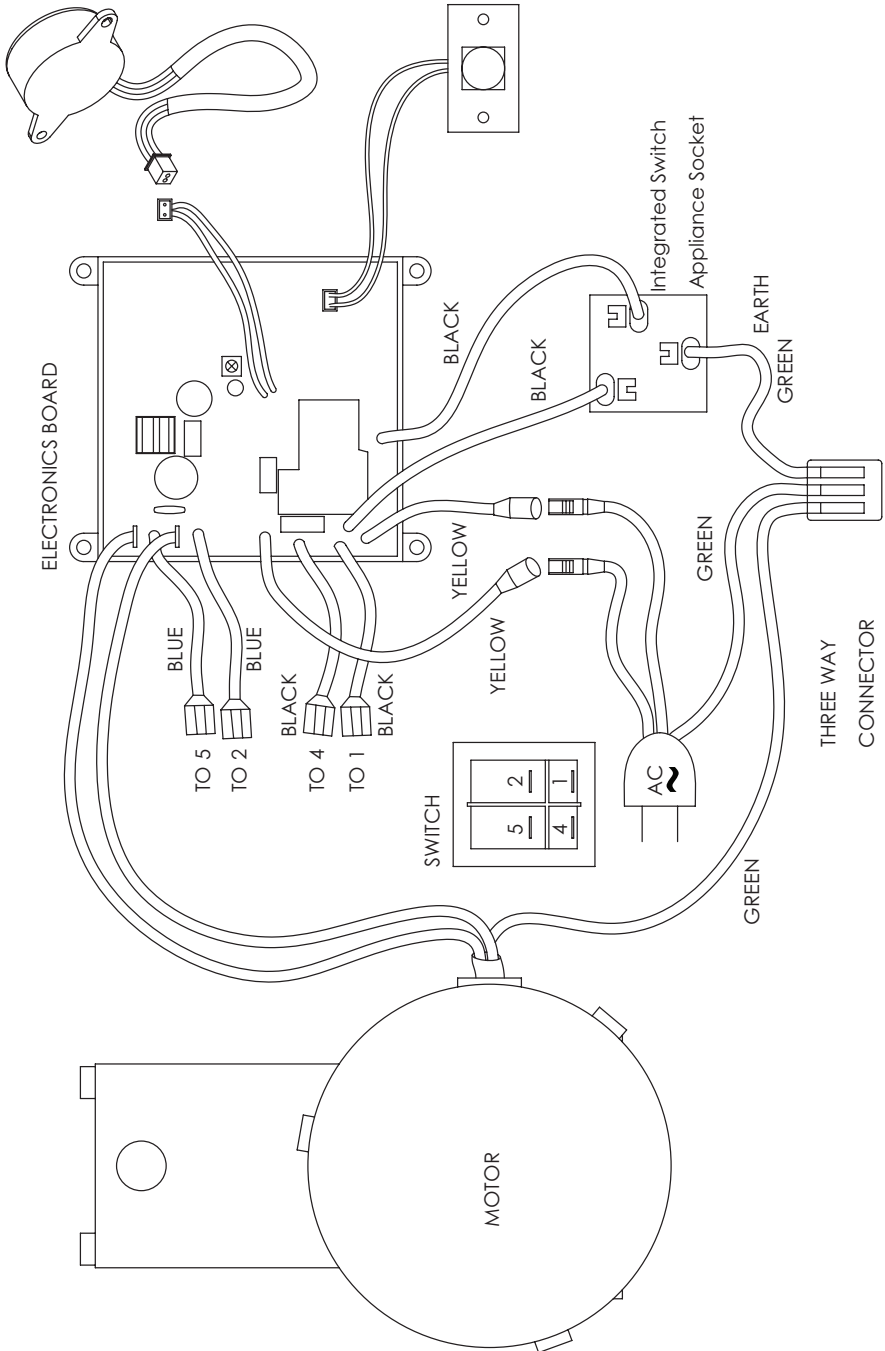
Wear safety glasses while using compressed air.

If the replacement of the power supply cord is necessary, this has to be done by the manufacturer or their agent in order to avoid a safety hazard.

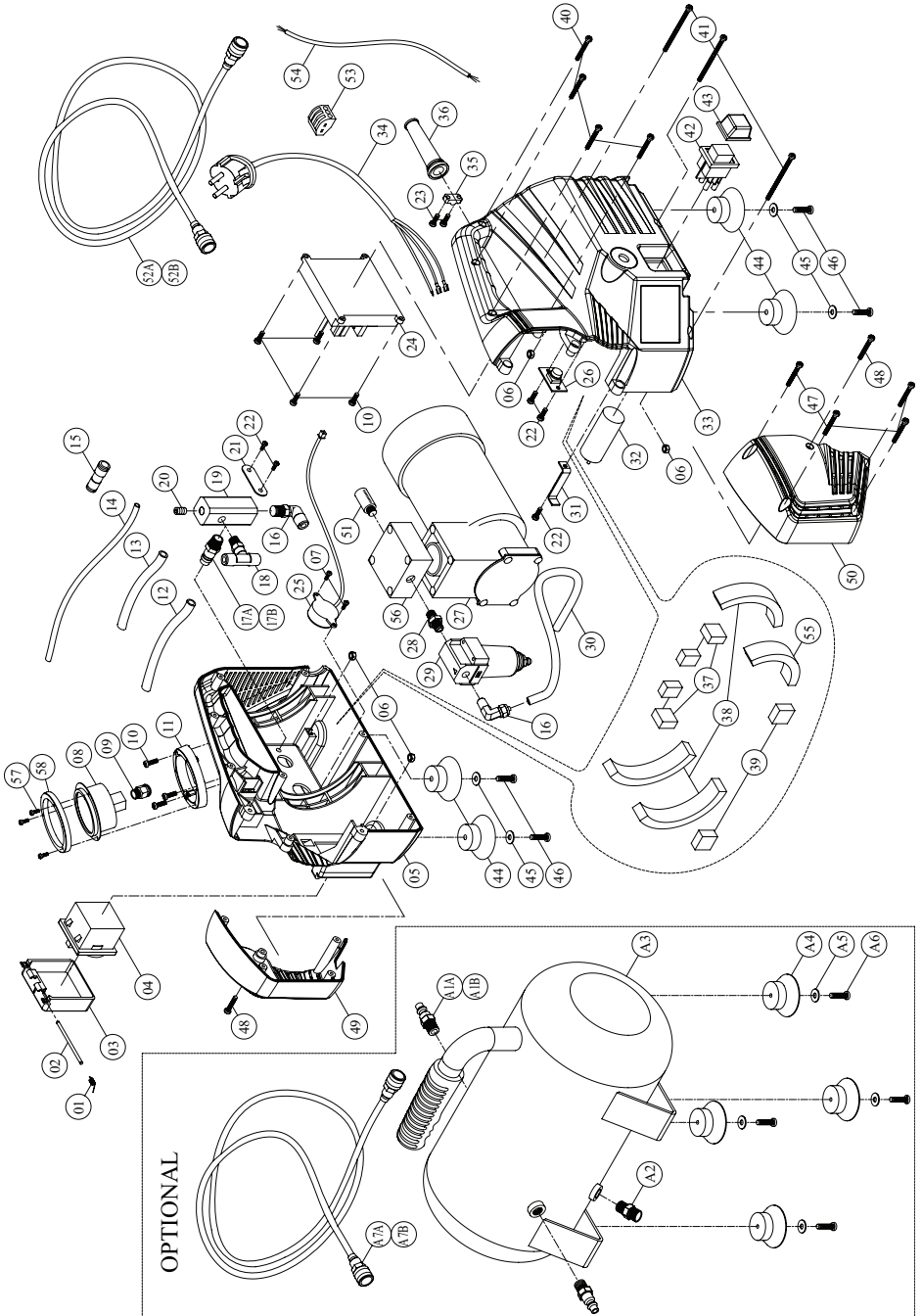
WARNING: All repairs must be entrusted to an authorized service center. Incorrectly performed repairs could lead to injury or death.

DRAIN OFF WATER AFTER USE ALL THE TIME

WIRING



EXPLODED VIEW



PARTS LIST

No.	Parts Name	Q'TY	No.	Parts Name	Q'TY
1	TORSION SPRING $\varnothing 0.7 \times \varnothing 2.5 \times 21L$	1	36	CORD ARMOR	1
2	HINGE PIN $\varnothing 2.3 \times 60$	1	37	SEAL STRIP 20mm	4
3	HINGED COVER	1	38	SEAL STRIP 120mm	3
4	INTEGRATED SWITCHING SOCKET	1	39	SEAL STRIP 15mm	2
5	MAIN HOUSING-RIGHT	1	40	SCREW M4 x 25	4
6	GIB LOCK NUT M5 x 8	4	41	SCREW M4 x 60	3
7	SCREW M3 x 8	2	42	ON/OFF SWITCH	1
8	MANOMETER	1	43	PROTECTION COVER	1
9	CONNECTOR PT1/8" x $\varnothing 6$	1	44	FOOT PAD	4
10	SCREW M4 x 12	7	45	FLAT WASHER $\varnothing 5.5 \times \varnothing 14 \times 1$	4
11	MANOMETER SUPPORTER	1	46	SCREW M5 x 20	4
12	TUBE $\varnothing 4 \times \varnothing 6 \times 200$	1	47	SCREW M4 x 30	4
13	TUBE $\varnothing 4 \times \varnothing 6 \times 180$	1	48.)	SCREW M4 x 20	2
14	TUBE $\varnothing 2.5 \times \varnothing 4 \times 270$	1	49.)	FRONT COVER-RIGHT	1
15	TUBE CONNECTOR $\varnothing 4 \times \varnothing 6$	1	50	FRONT COVER-LEFT	1
16	ELBOW CONNECTOR PT1/4" x $\varnothing 6$	2	51	PLASTIC SILENCER	1
17A	QUICK RELEASE CONNECTOR-EUROPEAN TYPE	1	52A	AIR HOSE-EUROPEAN TYPE 2.5M	1
17B	QUICK RELEASE CONNECTOR-JAPANESE TYPE	1	52B	AIR HOSE-JAPANESE TYPE 2.5M	1
18	TEE CONNECTOR PT 1/4" x $\varnothing 6$	1	53.)	THREE WAY CONNECTOR	1
19	CONNECTOR PLATE	1	54.)	EARTH WIRE 30cm	1
20	SCREW PT 1/4"	1	55	SEAL STRIP 100mm	1
21	FIXED PLATE	1	56	INLET AND EXHAUST VALVE SEAT	1
22	SCREW M4 x 8	5	57	SCREW M3 x 15	3
23	SCREW M4 x 16	2	58	PROTECTIVE RING	1
24	ELECTRONICS BOARD	1			
25	BUZZER	1		OPTIONAL	
26	RESET BUTTON	1	A1A	QUICK RELEASE CONNECTOR-EUROPEAN TYPE	2
27	OIL-LESS VACUUM MOTOR	1	A1B	QUICK RELEASE CONNECTOR-JAPANESE TYPE	2
28	BOTH END CONNECTOR PT 1/4" x PT 1/4"	1	A2	SLUICING VALVE 1/4"	1
29	WATER FILTER	1	A3	VACUUM TANK	1
30	TUBE $\varnothing 4 \times \varnothing 6 \times 480$	1	A4	FOOT PAD	4
31	CAPACITOR HOLDER	1	A5	FLAT WASHER $\varnothing 5.5 \times \varnothing 14 \times 1$	4
32	CAPACITOR 110V-250V 16UF ; 220V-450V 4UF	1	A6	SCREW M5 x 15	4
33	MAIN HOUSING-LEFT	1	A7A	AIR HOSE-EUROPEAN TYPE 1M	1
34	POWER SUPPLY CORD 1.5 x 3C x 3.5M H07RNF	1	A7B	AIR HOSE-JAPANESE TYPE 1M	1
35	CABLE CLIP	1			

