Check the water level in the water separator at regular intervals.

NOTE: The appliance is equipped with a safety valve to prevent water being drawn into the pump when the water container is full.

If the safety valve is activated, vacuum pressure will drop. Stop working if this happens and empty the water separator (see Equipment Care).

TROUBLESHOOTING

When the pump doesn't start, simply switch the pump off and on again. If this doesn't solve the problem check the electric supply, for example, by plugging in and starting another appliance. Check the supply cord and extension cord. Replace extension cord if found damaged. If machine cord is damaged, **don't try to fix it,** return to HSS Hire.

In case the pump doesn't start or cuts out during operation the overheating prevention cut-out may have been activated. Allow the pump to cool down. Clean the ventilation slots.

If the pump doesn't create the vacuum, when it is running (pressure indicator in the red area) **check hoses, fittings, pump or vacuum baseplate seals** (water separator, connectors, etc.) **and clean them.**

Check also the water separator. When it is full, empty it.

It may happen that **the ball float is stuck beneath the filter unit. Remove the water separator and pull the ball down.**

Lack of vacuum may be caused by **water separator being not fitted properly or at all. Check the water separator is not leaking and it is in good condition. If water separator is found broken, return the pump to HSS Hire.**

Also observer the hose. When it is damaged or squashed, the pump will not create the vacuum. Return the pump to HSS Hire.

If any of the above solutions don't fix the problem return the appliance to HSS Hire.

EQUIPMENT CARE

CAUTION

ALWAYS DISCONNECT THE SUPPLY CORD PLUG FROM THE POWER OUTLET BEFORE MAKING ALTERATIONS.

CHECKING PUMP OPERATION AND VACUUM

Connect the hose to the vacuum base plate in order to release any remaining vacuum pressure.

Rotate the water separator container to the "open" position and pull it down and away from the pump (bayonet connection) then empty the container.

Also check the ball float. The ball must be free to move in its cage. Press the ball down if it is stuck up against the seal.

Clean the top edge of the water separator container before refitting it. Bring the bayonet connector on the water container into engagement and then rotate the container toward "close".

Check that the water separator container is seated securely.

Never operate the pump if the ventilation slots are blocked. Clean the ventilation slots carefully using a dry brush. Do not permit foreign objects to enter the interior of the pump. Clean the outside of the pump at regular intervals using a slightly damp cloth.

Do not use a spray, steam pressure cleaning equipment or running water for cleaning. This may negatively affect the electrical safety of the pump. Always keep the grip surfaces of the pump free from oil and grease. Do not use cleaning agents which contain silicone. Use a damp cloth and a little household cleaner to clean the outside of the appliance. Clean the ventilation slots regularly with a soft, dry brush.

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease and speed, assume you have the wrong equipment for the job. Contact HSS Hire for advice.

Keep the equipment clean - you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

When not in use, store the equipment somewhere clean, dry and secure.

FINISHING OFF

Turn off the pump before unplugging the unit.

Unplug the unit, and neatly coil the flex.

Clean the water separator.

Give the unit a final clean up ready for return, to HSS Hire.

... have you been trained

The law requires that personnel using this type of equipment in the workplace must be competent and qualified to do so.
Training is available at HSS Training
0845 766 7799

...any comments?

If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below
e-mail: safety@hss.com

76 Talbot Road, Old Trafford, Manchester, M16 0PQ

www.hss.com

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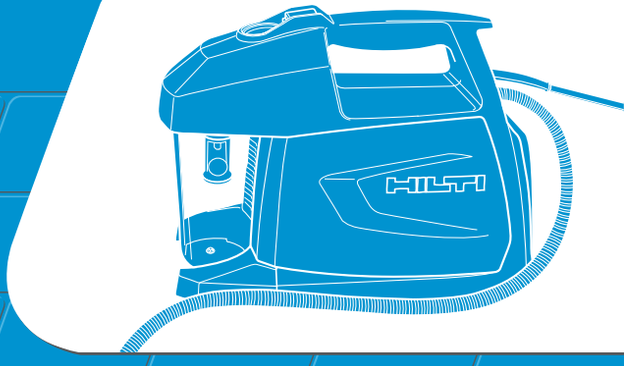
Operating & Safety Guide 897

HSS Hire



Vac Pump

Vacuum pump for temporary fixing to horizontal surfaces when drilling.

RCD

Code 01631

GENERAL SAFETY

For advice on the safety and suitability of this equipment **contact HSS Hire.**

There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.

The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.

This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.

This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using cones and either barriers or tape, available for hire from HSS Hire.

Never use this equipment if you are **ill, feeling tired,** or **under the influence of alcohol or drugs.**

Wear practical, protective clothing, gloves and footwear. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

Ensure the work area is well lit and ventilated, if in doubt, ask about lighting and ventilation equipment at HSS Hire.

Do not work near flammable gases or liquids, petrol or paint thinner fumes for example. **Keep combustible materials at a safe distance** – at least 5m.

Do not expose the pump to rain or snow and do not use it in damp or wet areas or where there is a risk of fire or explosion.

The vac pump must only be used in a dry environment.

Do not operate the pump when it is dirty or wet. Dust or dampness on the surface of the pump make it more difficult to hold and, under unfavourable conditions, **may lead to electric shocks.**

Avoid restriction or blocking of the hose, e.g. pinching, kinking or entry of dirt.

Keep the ventilation slots on the pump clean and unobstructed. Ensure adequate free space at the air exit in order to avoid overheating of the appliance.

Never allow the pump to stand in water.

The pump should stand on a dry horizontal surface when in operation and should be secured to prevent possible movement.

Empty the water separator each time before transporting the pump.

Never leave the pump switched on when unattended.

Do not try to repair or modify the equipment.

ELECTRICAL SAFETY

This pump is designed to plug in to 110V power socket, so it must be provided with a suitable 110V generated power supply, or powered from the mains via a suitable 110V transformer.

If the equipment fails, or if its power supply cable or plug becomes damaged, return it. Never try to repair it yourself.

Keep cables out of harm's way, and clear of the work area. When necessary, use only **extension cords of a type approved for the application and with conductors of adequate cross section.** The pump may otherwise lose performance and the extension cord may overheat.

Extension leads should be fully unwound and loosely coiled, away from the equipment.

Check the extension cord for damage at regular intervals. Replace damaged extension cords.

Never run them through water, over sharp edges or where they could trip someone.

When working outdoors, use only extension cords that are approved and correspondingly marked for this application.

Always remove the plug from the current socket before undertaking any type of intervention on the HSS Vac Pump or if it is left unattended. Always switch off the machine before removing the plug.

When unplugging pull the plug, not the supply cable.

Protect yourself from electric shock. Avoid body contact with earthed or grounded objects such as pipes, radiators, kitchen ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.

To reduce the risk of electric shock, always use a suitable RCD (Residual Current-Operated Device) available from HSS Hire.

Never carry or pull the pump by its flex.

Ensure the machine and power socket are switched OFF before plugging into the power supply.

GETTING STARTED

The HSS Vac Pump is intended for operation in conjunction with vacuum fastening devices with coring diameter up to 250mm.

It is designed to be used as an air suction pump and is not to be used with other gases and must not be used to pump liquids.

It is equipped with a water separator for use when wet drilling.

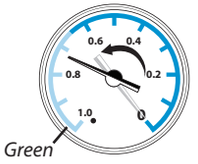
Never use the HSS Vac Pump until you have fully read and understood this User Guide and the machine has been properly set up using the information it contains.

CHECKING PUMP OPERATION AND VACUUM

Before using check pump operation and vacuum.

Plug the supply cord into the power outlet and switch the pump on at the on / off switch.

After a short time, the pressure gauge should indicate a pressure within the green area.



BASIC TECHNIQUES

Plug the supply cord into the power outlet then switch on the pump's switch.

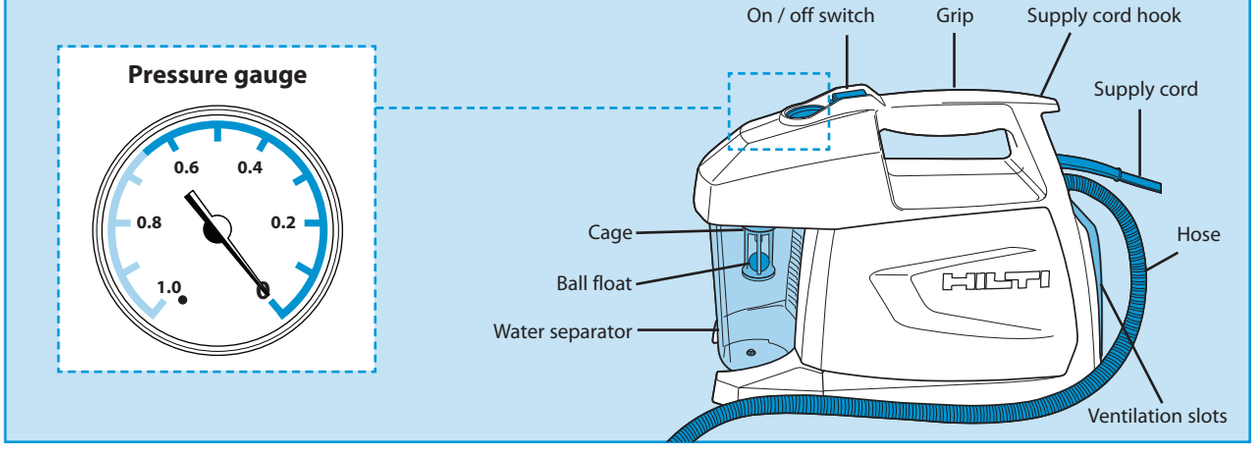
The vacuum is monitored by a built-in pressure gauge.

Check the pressure gauge at regular intervals while the work is being carried out.

NOTE: Pressure indicator in the green area: vacuum pressure is adequate. Pressure indicator in the red area: vacuum pressure is inadequate.

If the vacuum pressure is no longer adequate, stop working immediately. Check the system for leakage or kinks in the hose, etc.

IDENTIFIER



Know Your Symbols

HSS have created clear Icons to inform the hirer of their responsibilities towards the safe use of hire equipment.

These are designed to reduce the amount of different safety information labels required for each product for hire.

General use PPE / Warning

Clearly marked minimum PPE will be visible on all equipment,

Correct PPE must be worn

HAV Hand Arm Vibration

Danger Rotating blade

Danger Hot exhaust

Danger Electric shock

Caution Abrasive Wheel

Caution Finger trap

Fuel and Supply Types

Pe
Petrol

Di
Diesel

2t
2 - Stroke Petrol

El
Electric

Safe Procedures

All hirers must understand and respect the safe procedures of all equipment.

It is the responsibility of the hirer to maintain and return the equipment in a clean condition and good working order.

Ro
Read OPS Guide

Ou
Outdoor Use only

Hl
Heavy Lifting

Cd
Check Oil daily

Cf
Check Fuel daily

Cw
Check Water daily

Bc
Battery Care

Sh
Safe Height Working

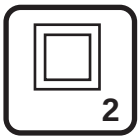
Swl
Refer to Data Plate

V
Check Power Voltage Data Plate

Electrical Safety

Safe wiring procedures.

Ea
Must be Earthed Class 1



Doi
Double Insulated Class 2

Enl
Earth Live Neutral Wire Coding

Return Responsibility

Charges apply to equipment returned dirty and damaged.

Cc
Cleaning Charge

Rc
Repair Charge