



Ramset™

SDP 1




Operator's manual and
maintenance instructions





- 1. Handle
- 2. Vacuum gauge
- 3. Quick fitting vacuum supply
- 4. Warning buzzer low vacuum
- 5. Socket power supply
- 6. Anti-slip silent blocks
- 7. On/Off switch
- 8. Safety reset button
- 9. Water filter separator
- 10. Vacuum hose 2,5 m (standard accessory)
- 11. Vacuum buffer tank 5 l (optional accessory - air hose 1 m included)


EXPLANATION OF SYMBOLS AND PICTOGRAMS

V	Volts
A	Amperes
Hz	Hertz
W	Watts
~	Alternating current
l/min	Airflow
bar	Vacuum
IP	Protection class

 Disposal of old electrical & electronic equipment

 Wear eye protection

 Wear ear protectors

 Read all safety warnings and all instructions

 Warning

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.

GENERAL POWER TOOL SAFETY WARNINGS

WARNING! Read and understand all instructions.

Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool.

SAVE THESE INSTRUCTIONS

Work area safety. Keep your work area clean and well lit.

Cluttered worksites and dark areas invite accidents.

Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquid, gases, or dust. Power tools create sparks which may ignite the dust or fumes.

Keep bystanders, children, and visitors away while operating a power tool.

Distractions can cause you to lose control.

Electrical safety

Grounded tools 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. Do not use any adaptor plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.

Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.

There is an increased risk of electric shock if your body is grounded. Don't expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Don't abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.

Damaged cords increase the risk of electric shock.

When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".

These cords are rated for outdoor use and reduce the risk of electric shock.

Personal Safety

Stay alert, watch what you are doing and use common sense when operating a power tool.

Do not use the tool while tired or under the influence of drugs, alcohol, or medications. A moment of inattention while operating power tools may result in serious personal injury.

Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

Avoid accidental starting. Be sure the switch is off before plugging in. Plugging in tools that have the switch on invites accidents.

Remove adjusting keys or switches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

TECHNICAL SPECIFICATIONS

Rated input	200 W
Voltage	220-240 V~
Current	0,9 A
Frequency	50/60 Hz
Airflow	30,5 l/min
Max. vacuum	- 0,9 bar
Insulation class	Class I
Protection class	IPX4
Weight (without power cable and vacuum hose)	6,7 kg
Dimensions (L x H x W)	310 x 238 x 250 mm
Cable	4 m

Confirmation declaration

We declare in sole responsibility that the product types Ramset SDP1 referred to in this declaration conforms to the following standards and further normative documents. We declare under our sole responsibility that this product is in conformity with the following standards or standardization documents:

- 2006/95/EC, 2004/108/EC
- IEC 60335-1:2001 + A1:2004 + A2:2006
- EN 60335-1:2002 + A1:2004 + A11:2004 + A12:2006 + A2:2006 + A13:2008 +A14:2010
- EN 62233:2008
- EN 55014-1:2006+A1:2009
- EN 55014-2:1997+ A1:2001+A2:2008
- EN 61000-3-2:2006+A1:2009+A2:2009
- EN 61000-3-3:2008

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FUNCTIONAL DESCRIPTION

The SDP1 vacuum pump is a good tool to be used on a flat surface, when it is needed to set-up the drilling rig quickly or when it is not permitted to fix the rig with a mechanical anchor.

Its compact excellent weight balance and superb ergonomiscs make this tool easy to use. On the built-in vacuum gauge it is easy to see the suction pressure and a warning buzzer system alarms once the suction power is too low.

WARNING: ONLY USE SYSTEM FOR VERTICAL DRILLING OPERATIONS

Electrical connection

The network voltage must be conform to the voltage indicated on the tool's 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 Ramset service center. Do not try to repair the damaged cable yourself. The use of a damaged power cable 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.

Length extension	Nominal current at full power (A)					
	0,2	2,1 – 3,4	3,5 – 5	5,1 – 7	7,1 – 10	10,1 – 16
7,5	1,5	1,5	1,5	2,5	2,5	4,0
15,0	1,5	1,5	1,5	2,5	2,5	4,0
22,5	1,5	1,5	1,5	2,5	2,5	4,0
30,0	1,5	1,5	1,5	2,5	2,5	6,0
60,0	1,5	1,5	1,5	2,5	4,0	6,0
90,0	1,5	2,5	2,5	4,0	4,0	8,0
Table 1	Cutaway conductor - cable 2 x mm ²					

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 SDP1
- 2. Air hose
- 3. Instruction manual

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

How to install the 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 rig.



Warning buzzer

For safety reasons the tool is equipped with the warning buzzer. It will buzz if the vacuum is under -0,7 bar.

STARTING AND STOPPING THE TOOL

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

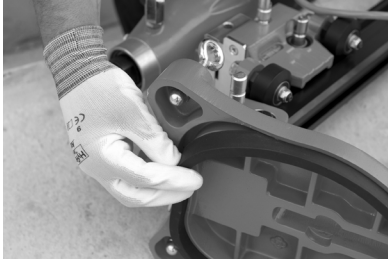
The tool must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances.

Never remove the grounding prong or modify the plug in any way.

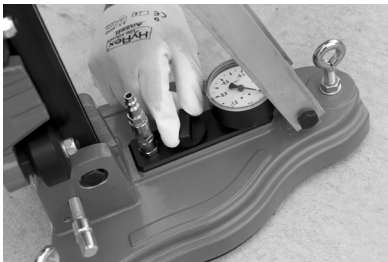
HOW TO USE THE TOOL

Installing instructions

- 1) Place the seal in the correct place of the vacuum place



- 2) Fix the vacuum kit on the drilling rig



- a) Plug the hose to the vacuum pump



- b) Plug the hose to the vacuum kit of the drilling rig or the independent vacuum plate



- c) Open the air switch of the vacuum system



- 3) Connect the tool electric plug into the electric socket of the vacuum pump



- 4) Once the tool is set up and all safety measures and equipment are in place, begin by turning on the electricity switch of the SDP 1



- 5) Once the vacuum reaches - 0,7 bar, the warning buzzer will stop buzzing



- 6) Push the safety reset button to transmit power to the connected tool



- 7) After checking the correct installation of the drilling rig, you can start drilling
- Do not make drilling operations when the warning sign is buzzing or when the vacuum 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

- 8) Stop the vacuum pump by turning off the switch



- 9) Release the vacuum by turning the vacuum switch on the vacuum kit under 45°



9) Drain water by pushing the button of the water filter with cartridge



10) Removal of the connected tool, the drilling rig and the air hose is opposite of assembly

Vacuum buffer tank (optional)

The tool could be used with the vacuum buffer tank. Once the power is cut suddenly, the vacuum buffer tank could keep on providing vacuum for a long period. The vacuum won't be cut suddenly and it could prevent from possible danger. Drain water by loosening the sluicing valve.



Sluicing valve



MAINTENANCE

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.

DRAIN OFF WATER AFTER USE ALL THE TIME

NOTES

LOCATIONS

RAMSET AUSTRALIA

Victoria

Mooroolbark
296-298 Maroondah Highway
VIC 3138
Call 1300 780 063

Richmond

96 Church Street
VIC 3121
Call 1300 780 063

New South Wales

Silverwater
71 Carnarvon Street
NSW 2128
Call 1300 780 063

Mascot

563 Gardeners Road
NSW 2020
Call 1300 780 063

Newcastle

Cardiff
77 Munibung Road
Cardiff 2285
Call 1300 780 063

Australian Capital Territory

Fyshwick
5/19 Tennant Street
ACT 2609
Call 1300 780 063

Queensland

West End
281 Montague Road
Qld 4101
Call 1300 780 063

Townsville

153 Ingham Rd
QLD 4810
Call 1300 780 063

South Australia

Hilton
115 Sir Donald Bradman Drive
SA 5033
Call 1300 780 063

Western Australia

Welshpool
1/12 Colin Jamieson Drive
Welshpool WA 6106
Call 1300 780 063

RAMSET NEW ZEALAND

Whangarei

2A Herekino St
P.O. Box 133
Whangarei
Phone 09 438 2010

North Shore

5J Miro Place, Albany
P.O. Box 40-031
Auckland 0747
Phone 09 444 2354

Auckland

35 Station Rd, Penrose
P.O. Box 12-327, Auckland 1330
Phone 09 579 3072

Henderson

123 Central Park Drive
P.O. Box 83-135, Auckland 1330
Phone 09 838 9865

East Tamaki

Unit 1, 333 East Tamaki Road
P.O. Box 97823
Sth Auckland Mail Centre
Phone 09 272 4701

Hamilton

15 Somerset St
P.O. Box 1157
Phone 07 847 9047

Tauranga

Unit 1, 15 Portside Drive
Mt Maunganui
Phone 07 572 0520

Rotorua

Waterford Park Estate
50 Old Taupo Rd
P.O. Box 855
Phone 07 348 0190

New Plymouth

25B Hurlstone Drive
P.O. Box 4148
Phone 06 759 8984

Palmerston North

601 Tremaine Avenue
P.O. Box 436
Phone 06 357 6745

Napier

124 Taradale Road
P.O. Box 3374, Onekawa
Phone 06 843 0067

Lower Hutt

46 Victoria St
Phone 04 569 7247

Wellington

147 Taranaki St
P.O. Box 3296
Phone 04 384 4138

Nelson

2 Parere St
P.O. Box 1080
Phone 03 548 2664

Christchurch

7 O'Shannesey Place
Phone 03 341 8710

Dunedin

5 Melbourne St
P.O. Box 2227
Phone 03 455 1134

Queenstown

200 Glenda Drive,
Frankton
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P.O. Box 2469, Wakatipu
Phone 03 442 8073

Invercargill

121 Clyde St
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