

DUST DEVIL

THE DEVIL IS IN THE DETAIL



INSTRUCTION MANUAL

CAUTION: Read these instructions before using this appliance.



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1. DUSTDEVIL BOX HEPA VACUUM

SINGLE MOTOR VACUUM

DD-10

Motor	1 x 1200 Watt
Weight	7.5KG
Capacity	2 Litres
Flow	50L/Sec
Filter Grade	H14
Size L x W x H	35cm x 20cm x 32cm
Hiloflex Hose	2m Long 32mm Wide



2. PRODUCT DESCRIPTION

General vacuum cleaner with a H Type filter, suitable for the collection of nuisance dusts and can be used where a clean dust free environment is essential.

These appliances are for **Dry use only** and must not be used for the collection of liquids or damp material. The appliance must never be operated or used in areas where there may be potentially explosive dusts, vapour, or gases.

They must not be used or stored outdoors in wet conditions.

These appliances are suitable for commercial and industrial use.

Part 1, Section 6 of the Health and Safety at Work Act 1974 requires manufacturers to ensure, so far as reasonably practicable, that the articles manufactured are so designed and constructed as to be safe and without risk to health when properly used.

All RPS SootDevil/DustDevil products are manufactured and tested to the relevant British and European Standards where applicable and are accompanied by operating instructions which should be studied carefully by the person responsible for operation.

Additional copies of the operating instructions are available upon application, quoting model numbers.

If a change is made in the use of the product from that which it was originally supplied, consult Rotary Power Sweeping Ltd regarding the new use.

Prior to use it is recommended that the following be observed-

If there is a plug fitted, which is incorrect for the socket outlet. It should be cut off and the correct plug fitted. The removed plug should be destroyed as it would be dangerous if plugged into a live socket.

The wires in the mains lead are coloured -

Blue - Neutral, Brown - Live, Green / Yellow - Earth

The wire that is coloured Green / Yellow must be connected to the terminal marked with the letter E or by the earth symbol.

The wire that is coloured Blue must be connected to the terminal marked with N.

The wire that is coloured Brown must be connected to the terminal marked L

All RPS SootDevil/DustDevil appliances must be earthed.

Care and attention must be exercised at all times during use. Supply cables should be situated such that possible damage to cables is at a minimum. Supply cables should be examined at frequent intervals for damage such as cracking or ageing, if damage is found replace the supply cable before further use.

During cleaning or maintenance, the appliance must be disconnected from the mains.

Under no circumstances may the appliance be used in areas where there may be potentially explosive dusts or vapours.

These appliances are fitted with HEPA filter cartridges, designed for use with hazardous or toxic dusts as defined in BS EN 60335-69:2012. The classification is H, high hazard, suitable for all small particle dusts including carcinogens and pathogens.



3. AIR FILTRATION

THERMAL TRIP

The motor on the vacuum is fitted with a thermal trip. The operation of the vacuum relies on sufficient air being drawn through the vacuum hose, the vacuum bag, Pre-filter and then finally through the HEPA filter cartridge and onto the motor.

A blocked hose, full or part filled vacuum bag due to dense coal soot or debris, blocked Pre-filter bag or filter cartridge will result in severe overheating causing the thermal trip on the motor to operate. The thermal trip will reset after a period of time but the cause needs to be investigated.

VACUUM FILTERS

The DustDevil vacuum filtration uses 3 stages of filtration:

1. Vacuum bag
2. Pre-filter Drop-In Dry Filter
3. H14 Rated HEPA Filter Cartridge

Keeping the airflow running free from the hose end through to the vacuum exhaust is paramount in maintaining the operation of the DustDevil vacuum and getting the maximum performance from the vacuum cleaner.

***The DustDevil Vacuum is designed to be used with all levels of filtration present. If there is no filtration present before the HEPA filter, the HEPA filter will become blocked and the efficiency will be compromised. This will invalidate the warranty.**

4. OPERATING INSTRUCTIONS

SWITCHING ON THE VACUUM

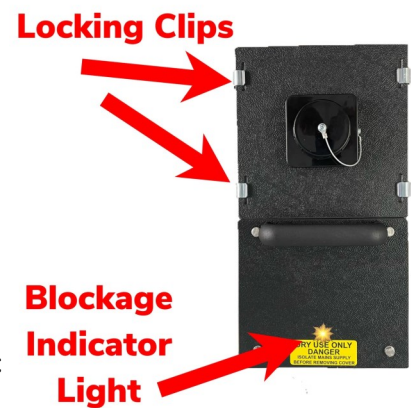
1. Ensure correct power supply is available, according to the voltage requirements indicated on the identification plate.
2. Ensure the electrical supply is safe and that the supply cable is not likely to be subjected to damage during use.
3. Ensure the blanking cap is removed before switching the vacuum cleaner on.
4. The vacuum cleaner is operated by means of one rocker switches situated on the front of the appliance.
5. The use of long extension cables may cause voltage drops with subsequent loss of performance.

CHANGING BAGS

The need to change bags is often indicated by a loss in performance, this will have an effect on the motor and will cause it to increase in pitch.

To change the bag, adopt the following procedure -

1. Switch the vacuum cleaner off
2. Disconnect from mains supply
3. Open the 4 retaining locking clips.
4. Lift off the vacuum top, remove filter bag by sliding it off the plastic spigot neck fitted inside the drum and place in a suitable disposal bag.
5. Check if the Pre-filter Drop-In Dry Filter is contaminated with soot, if contaminated then check HEPA filter for contamination also. Replace contaminated components prior to resuming use of the DustDevil vacuum or damage can occur to the vacuum motor and contaminated dust particles will be airbourne.
6. Fit a new bag by sliding it on to the neck of the spigot inside drum, ensuring that the bag is spread open.
7. Replace vacuum top on to the drum and ensure the 4 retaining locking clips secure the motor head to the vacuum body.
8. Turn on the vacuum to ensure that performance is re-established.



HEPA FILTER CARTRIDGE REPLACEMENT

1. Switch off vacuum and disconnect the mains
2. Unscrew the 4 bolts on the underside of the vacuum.
3. Unscrew the 2 Allan bolts holding the HEPA filter, remove the HEPA filter.

HEPA Filter Access Panel (Underside of Vacuum)



4. Dispose of the used HEPA filter according to working procedures/risk assessment.
5. Fit new filter in reverse of removal procedure.
6. Turn on the vacuum to ensure that performance is re-established.

***It is recommended that replacement of the HEPA Filter Cartridge is carried out every 12 Months or sooner if the performance is effected or it is contaminated or damaged.**

5. TROUBLESHOOTING GUIDE

LOSS OF SUCTION & POWER

Listed below are the causes of loss of suction and power of the DustDevil.

- Air Starvation
- Blocked or Dirty Filters
- Voltage Drop

There are obvious indicators prior to the vacuum struggling to perform efficiently:

- Losing suction at the hose nozzle
- An increase in vacuum noise
- Motors will not start up after operating the rocker switch

AIR STARVATION

Cooling of the motor relies on air being pulled through the vacuum hose. The motor has a thermal trip switch which will activate and shut the motor down if it overheats, the thermal trip switch stops the motor from burning out.

Causes of the thermal trip switch to activate are usually due to the following factors:

- Blocked vacuum hose
- Full or nearly full bag
- Coal soot which is very dense and will block the air going through the HEPA bag before it is even 1/2 full on occasions
- Blocked or dirty Pre-filter or HEPA filter cartridge due to not using the vacuum bag or pre-filter.

The thermal trip switch will reset after a period of time, usually 45 - 90 minutes, but the cause will need to be investigated and the problem rectified to prevent the thermal trip switch activating again.

CONTAMINATED FILTERS

If changing the bag does not restore the full suction efficiency to the vacuum, the other filtration stages must be checked. Remove the vacuum top as previously described and clean the Pre-filter Drop-in Dry Filter.

If this does not restore suction power then either the Pre-filter Drop-in Dry Filter or the HEPA filter cartridge will require replacement.

7. PAT TESTING - SAFETY

VOLTAGE DROP

The use of long extension cables may cause voltage drops with subsequent loss of performance.

PAT TESTING

PAT testing law requires that portable electrical appliances are safe and suitable for the purposes intended. These appliances should always be maintained properly and remain in good working order.

SAFETY

Rotary Power Sweeping Ltd assumes no responsibility for the consequences of operating in the above circumstances because actual use of the appliance is beyond the control of Rotary Power Sweeping Ltd.

8. WARRANTY

LIMITED WARRANTY

The SootDevil vacuums and all accessories are designed for professional use only. All components are warranted for a period of **12 months** from date of purchase.

Should any part fail due to manufacturing defect, return the defective part to Rotary Power Sweeping Ltd and we will replace it free of charge. All parts must be returned and inspected to determine part failure. Rotary Power Sweeping Ltd does not warranty failure of any part due to operator error or normal wear or where the correct filters have not been used or the vacuum has not been maintained. Be sure to read all operating instructions and safety precautions.

Instructions must be read prior to operating the DuctDevil vacuum, these can be downloaded direct off the website or requested if missing or lost.

The manufacturer accepts no liability for property damage or personal injury resulting from the operation of this equipment. This is the full extent of the warranty made by Rotary Power Sweeping Ltd. There is no other expressed warranty. All implied warranties are hereby excluded.

SPARES

For Spares Contact: Rotary Power Sweeping Ltd, 3 Tiverton Way, Tiverton, Devon. EX16 6TG.

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