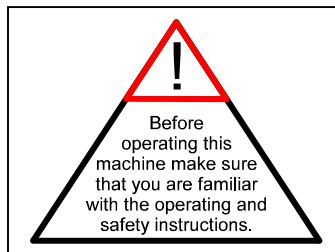
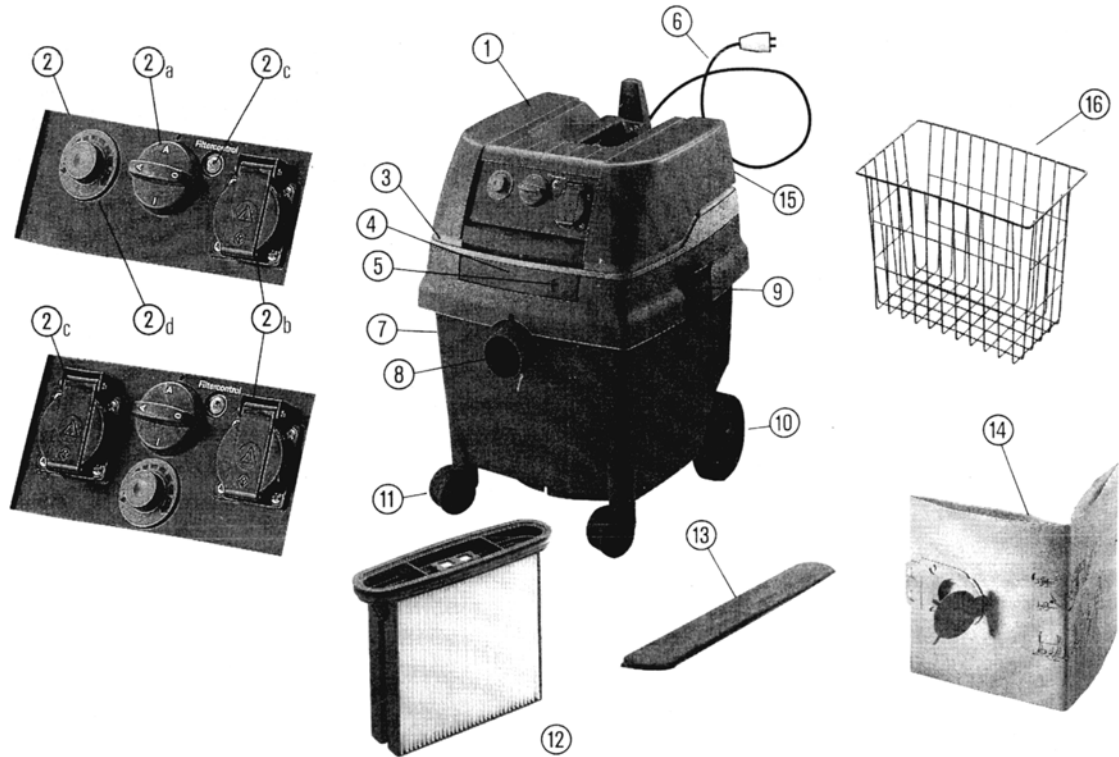


MODEL CS 1500 VACUUM OPERATING MANUAL





- | | | | |
|--|--|---|--|
| <p>D Beschreibung</p> <p>① Oberteil</p> <p>② Funktionsplatte
(entsprechend der Geräteausstattung)</p> <p>②a Drehschalter Ein/Aus/Automatik/Rüttler</p> | <p>②b Steckdose für Elektrowerkzeug</p> <p>②c Volumenstromanzeige</p> <p>②d Drehknopf für Drehzahlsteller</p> <p>②e Steckdose für Zusatzgerät</p> <p>③ Kühlluft eintritt</p> <p>④ Riegel</p> | <p>⑤ Verschluss</p> <p>⑥ Anschlußleitung</p> <p>⑦ Behälter</p> <p>⑧ Saugöffnung</p> <p>⑨ Rastverschlüsse</p> <p>⑩ Räder</p> | <p>⑪ Lenkrollen</p> <p>⑫ Filterkassetten</p> <p>⑬ Motorschutzfilter</p> <p>⑭ Papierfilterbeutel</p> <p>⑮ Einhängung für Drahtkorb</p> <p>⑯ Drahtkorb (Sonderzubehör)</p> |
|--|--|---|--|

- | | | | |
|---|--|---|--|
| <p>GB Beschreibung</p> <p>① Top section</p> <p>② Functional plate (depending on appliance configuration)</p> <p>②a Rotary switch ON/OFF/Automatic/Vibration</p> | <p>②b Power socket for electric tools</p> <p>②c Volume flow display</p> <p>②d Knob to set rotating speed</p> <p>②e Power socket for accessories</p> <p>③ Cold air inlet</p> <p>④ Locking bar</p> | <p>⑤ Lock</p> <p>⑥ Connecting line</p> <p>⑦ Container</p> <p>⑧ Suction opening</p> <p>⑨ Snap-in locks</p> <p>⑩ Wheels</p> | <p>⑪ Steering castors</p> <p>⑫ Filter cassettes</p> <p>⑬ Motor protection filter</p> <p>⑭ Paper filter bag</p> <p>⑮ Suspension for wire basket</p> <p>⑯ Wire basket (optional accessory)</p> |
|---|--|---|--|

- | | | | |
|---|---|---|---|
| <p>F Description</p> <p>① Partie supérieure</p> <p>② Plaque de fonctionnement
(en fonction de l'équipement de l'appareil)</p> <p>②a Interrupteur rotatif Marche/Arrêt/automatique/secoueur</p> <p>②b Prise de courant pour outil électrique</p> | <p>②c Affichage du débit volumétrique</p> <p>②d Bouton rotatif pour régulateur de vitesse</p> <p>②e Prise de courant pour appareil complémentaire</p> <p>③ Entrée air de refroidissement</p> <p>④ Verrou</p> <p>⑤ Fermeture</p> | <p>⑥ Conduite de raccordement</p> <p>⑦ Cuve</p> <p>⑧ Ouverture d'aspiration</p> <p>⑨ Fermeture à crans</p> <p>⑩ Roues</p> <p>⑪ Roues-guides</p> <p>⑫ Cassettes filtre</p> | <p>⑬ Filtre de protection du moteur</p> <p>⑭ Sachet filtre papier</p> <p>⑮ Suspension pour le panier en fil métallique</p> <p>⑯ Panier en fil métallique (accessoire spécial)</p> |
|---|---|---|---|

- | | | | |
|--|---|--|---|
| <p>E Descripción</p> <p>① Parte superior</p> <p>② Disco de funciones (según el equipamiento del aparato)</p> <p>②a Interruptor de giro para Encendido/Apagado/Automático/Vibrador</p> <p>②b Toma de corriente para herramientas eléctricas</p> | <p>②c Indicador de flujo</p> <p>②d Botón giratorio para el ajuste de velocidad</p> <p>②e Toma de corriente para aparato accesorio</p> <p>③ Entrada de aire frío</p> <p>④ Tira transversal</p> <p>⑤ Cierre</p> | <p>⑥ Cable de alimentación</p> <p>⑦ Depósito</p> <p>⑧ Abertura de aspiración</p> <p>⑨ Cierre a presión</p> <p>⑩ Ruedas</p> <p>⑪ Redecillas de dirección</p> <p>⑫ Estuche de filtro</p> <p>⑬ Filtro de protección del motor</p> | <p>⑭ Bolsa de filtro de papel</p> <p>⑮ Gancho para cesta de alambre</p> <p>⑯ Cesta de alambre (accesorio extra)</p> |
|--|---|--|---|

1. Safety instructions.

- This appliance is intended for commercial use, for instance in hotels, schools, hospitals, factories, shops, offices and leasing companies.
- **WARNING!** The vacuum cleaner is not suitable for removing health hazardous dusts.
Never vacuum flammable and explosive solvents, objects soaked with solvents, explosive dusts and liquids such as petrol, oil, alcohol and thinners, or substances that are hotter than 60°C as this will result in an explosion or cause a fire!
The appliance must not be used in the vicinity of flammable substances.
- Keep packaging material, particularly plastic bags, out of reach of children. Danger of suffocation!
- The voltage on the appliance type plate must conform with the mains voltage.
- The mains socket must be protected by a domestic fuse with the appropriate amperage.
- The appliance and its accessories must not be operated if:
 - Damage (cracks/breakages) are discernible on the appliance.
 - The power cable is damaged or indicates signs of cracking or ageing.
 - If invisible damage is suspected, for instance after dropping or falling.
- Never use damaged extension leads.
- Never draw the connecting cable over sharp edges, nor kink, fold or squeeze.
- Never point the hose or pipe at people or animals.
- Special care must be taken in the presence of children, old and frail people.
- Special care must be taken when vacuuming stairs. Ensure that you are standing firmly.
- The socket on the appliance must only be used for the purpose defined in these operating instructions.
- Do not allow electric rotating brushes to come into contact with the power supply cable.
- **WARNING!** Only operate the appliance with the supplied brushes or with the brushes specified in the operating instructions. Safety can be impaired if other brushes are used.
- Instantly switch off the appliance if foam or water leaks out. Empty the container and folded filter.

- Acids, acetone and solvents can etch appliance parts.
- Do not leave the appliance unattended. Always disconnect the plug from the mains socket when work is interrupted for extended periods.
- Always switch off the appliance, and disconnect the plug from the mains socket, after use and prior to any maintenance work.
- Never disconnect the appliance plug from the mains socket by pulling the connecting cable.
- A damaged appliance connecting cable must only be replaced with a special connecting cable available from the manufacturer or the after-sales service.
- Repairs must only be completed by competent specialists or the after-sales service. Only use original spare parts. An incorrectly repaired appliance is a hazard for the user.
- Other work than the work described in these instructions must not be performed.
- Liability for possible damage is not accepted if the appliance is misused, incorrectly operated or not competently repaired.

2. Prior to use.

Please read these instructions carefully as they contain important information concerning use, safety, maintenance and care. Keep these operating instructions in a safe place and ensure that they are passed on to any possible subsequent owner. Subject to changes of design and configuration without previous notification.

3. Only use original accessories.

Paper filter bag **FB 25**
for 25-l container;
1 set of 5

Filter cassettes **FKP 4300**
Polyester material
1 set of 2

For other optional accessories see our Accessories List or ask for the corresponding information.

4. Fields of application.

For wet and dry vacuum cleaning. Not suitable for vacuuming health hazardous dusts. The vacuum cleaner with socket and ON/OFF automatic switching system is intended for the connection of electric tools.

5. Setting into operation.

When unpacking, check that the appliance is complete and that there is no transport damage.

5.1 Electrical equipment.

The appliance is switched ON/OFF with the switch ②a (see fig. 1 on the top section ① of the appliance), or switch to automatic or vibration mode.

0 = Suction >OFF<

1 = Suction >ON< (manual operation)

A = Ready for ON/OFF automatic switching system (the vacuum cleaner is switched on and off by the connected electric tool).

R = Filter cleaning function; in this setting the vibrator will operate for 7 seconds after which it will be automatically turned off.

AR = Appliance version featuring "AR" can be operated as described under "A" except that automatic filter cleaning (as described under "R") is turned on when the volume flow display lights up.

The power socket ②b is intended for the connection of an electric tool.

WARNING! An electric tool must be switched off when it is connected. The socket is always live when the plug is inserted in a mains socket, irrespective of the switch position. In the "0" switch setting, the socket can be used for an extension line (e.g. for a light).

Connected load: Suction unit and appliance max. 16 A

On appliances featuring two power sockets, the socket for automatic switching is identified by an "A".

Appliances with an electronic suction force control feature a rotary knob ②d with which the suction force can be adapted to the object that is being cleaned.

The vibrating device should be activated (switch position R) at the latest when the volume flow display ②c (warning light) lights up or when the suction power decreases.

The suction openings of electric tools are not standard. Consequently, an adapter (rubber nozzle) 582627 is available that can be shortened to fit the given electric tool. With electric tools that have a very small suction opening the volume flow display ②c may remain permanently illuminated during operation because the volume flow is small. However, bypass motor cooling ensures that no problems can arise when operating continuously under these conditions. Such appliances should be operated in the "A" switch setting and not "AR".

6. Vacuum cleaning.

The suction force of appliances with a handle tube can be matched to the object being cleaned with the secondary air slide.

6.1 Dry vacuum cleaning.

Dry vacuum cleaning must only be performed with a dry filter, appliance and accessories so that the dust cannot adhere and become encrusted. If the appliance is used to vacuum soot, cement, gypsum, flour and similar dusts, it is advisable to use a paper filter bag.

A paper filter bag must always be used in conjunction with a filter cartridge.

6.2 Wet vacuum cleaning.

Vacuum cleaning is performed without a paper filter bag. The filter cassettes are suitable for wet cleaning. The built-in sensor turns off the motor when the container is full. Empty the container in the manner described in 6.4. The restart lockout remains effective if the appliance is not switched off. The appliance is only operational again after it has been switched off and switched on again.

- Always lift the suction hose out of the liquid before emptying.
- Due to the high suction force and flow-promoting container shape, some water may flow out of the hose when the appliance is switched off.
- Use a dry filter for subsequent dry vacuum cleaning. Use a second (exchangeable) filter when frequently alternating between dry and wet vacuum cleaning.

6.3 Filter cleaning.

Appliances fitted with an electromagnetic cleaning system can shake off the dust that is adhering to the filter cassette ②. This guarantees optimal use of the filter cassettes and lengthens their working cycles.

The vibrating device should be activated (switch position V) at the latest when the volume flow display ②c (warning light) lights up or when the suction power decreases.

6.4 Emptying the container.

Turn off ②a, disconnect the plug ⑥, and open the lock-in closure ⑨. Remove the top section ① and hose from the container ⑦. Empty the container or remove the paper filter bag ⑭ from the suction opening.

6.5 Paper filter bag

Hold of the paper filter bag ⑭ by the flange and push vertically from above into the guide of the suction opening ⑧ until the stop point is reached.

Bags increase the dust-retaining capacity and ensure hygienic disposal. Paper filter bags must only be used for dry vacuum cleaning.

7. Cleaning

Filter cassettes (non-"R" appliances) should be cleaned with a soft brush and, possibly, with water.

Dry the filter and container thoroughly so that dust cannot adhere to moist parts. To prevent dirt accumulation and encrustation, dry dust must be removed before changing over to wet vacuum cleaning.

Clean the container and accessories with water. Wipe the top section ① with a moist cloth.

8. Maintenance.

The filter cassettes ⑫ must be renewed when the suction power declines and does not increase again after the filter ⑫ has been cleaned. Obviously, this presupposes that the container ⑦ has been emptied and a full paper filter bag ⑭ has been replaced.

Shake the filter cassettes ⑭ once again before the filter is exchanged. Use a coin or similar object to turn the lock ⑤ on the locking bar ④ anti-clockwise by 90°, and then push the locking bar ④ to the back. Fold open the hood and lift out the filter cartridges ⑫. Insert new filter cassettes. Ensure that the filters are correctly and securely seated. The motor protection filter ⑬ must be cleaned from time to time. Remove the filter from the motor case. Wash the filter under flowing water and then dry thoroughly. Return the motor protection filter. Remove any dirt. Fold down the hood and press it lightly so that the locking bar ④ returns to its initial position. The appliance is now properly closed.

9. Accessories

Fix the vacuum tube by inserting it in the corresponding recesses in the rear wall of the container.

The wire basket ⁽¹⁶⁾ is inserted from above into the suspension ⁽¹⁵⁾ in the top section ⁽¹⁾.

10. Remedying faults.

Functional faults are not necessarily always due to a defective appliance.

Fault:

- Decreasing suction force.

Possible Cause/Remedy:

Clogged filter – Clean.
Paper filter is full – Change.
Container full – Empty.
Clogged motor protection filter – Clean.
Clogged nozzle, tube or hose – Clean

- Appliance does not start.

Is the plug inserted in the socket?
Mains failure?
Is the power supply cable broken?
Has the appliance hood been properly closed?
Has the water sensor switched off the appliance?

No other "interventions" are permitted; please consult the servicing workshop.

11. Technical data.

Appliance version	Rated capacity	Maximum capacity	Typical sound level (acc. to DIN EN 60704-1)
IS 10.....	1000 W	1200 W	69.0 dB(A)
IS 12.....	1200 W	1400 W	69.5 dB(A)
IS 14.....	1400 W	1600 W	70.0 dB(A)

Connecting cable for appliances without socket: H05VV F 2x1

Connecting cable for appliances with socket: H05VV F 3x1.5