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HILTI

HILTI VC-CB M Class Dust Extractor




Original operating instructions

Information about the operating instructions

About these operating instructions

- Warning! Read and understand all accompanying documentation, including but not limited to instructions, safety warnings, illustrations, and specifications provided with this product. Familiarize yourself with all the instructions, safety warnings, illustrations, specifications, components, and functions of the product before use. Failure to do so may result in electric shock, fire, and/or serious injury. Save all warnings and instructions for future reference.
- Products are designed for professional users and only trained, authorized personnel are permitted to operate, service and maintain the products. This personnel must be specifically informed about the possible hazards. The product and its ancillary

equipment can present hazards if used incorrectly by untrained personnel or if used not in accordance with the intended use.

- The accompanying documentation corresponds to the current state of the art at the time of printing. Please always check for the latest version on the product's page on Hilti's website. To do this, follow the link or scan the QR code in this documentation, marked with the symbol 
- Ensure that these operating instructions are with the product when it is given to other persons.

Explanation of symbols

• Warnings

Warnings alert persons to hazards that occur when handling or using the product. The following signal words are used:

• **DANGER**

Draws attention to imminent danger that will lead to serious personal injury or fatality.

• **WARNING!**






Draws attention to a potential threat of danger that can lead to serious injury or fatality.

• **CAUTION**

Draws attention to a potentially dangerous situation that could lead to personal injury or damage to the equipment or other property.


Symbols in the documentation

The following symbols are used in our documentation:

	Read the operating instructions before use
	Caution
	Instructions for use and other useful information
	Dealing with recyclable materials
	Do not dispose of electric equipment and batteries as household waste

Symbols in the illustrations


The following symbols are used in our illustrations:

2	These numbers refer to the corresponding illustrations found at the beginning of these operating instructions
3	The numbering reflects the sequence of operations shown in the illustrations and may deviate from the steps described in the text
(11)	Item reference numbers are used in the overview illustrations and refer to the numbers used in the Product overview section
	This symbol is intended to draw your special attention to certain points for handling the product.

Product-dependent symbols

General symbols

Symbols used in relation to the product.

	The product supports near-field communication (NFC) technology compatible with iOS and Android platforms.
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Prohibition symbols

Prohibition symbols indicate “must not do” actions.

	Transport by crane is not permissible
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- Only persons who are familiar with it, who have been trained on how to use it safely and who understand the resulting hazards are permitted to use the product. The product is not intended for use by children. Children must be supervised to ensure that they do not play with the product.
- Store the product in a secure place when not in use. Products which are not in use must be stored in a dry, high place or locked away out of reach of children.
- Observe the accident prevention regulations applicable in your country.
- Use of the vacuum cleaner for cleaning down persons or animals is not permissible.
- Do not use the vacuum cleaner in or under water.
- Ensure that the workplace is well lit.
- Ensure that the workplace is well ventilated. Exposure to dust at a poorly ventilated workplace may result in damage to the health.
- Keep the work area clean and uncluttered and watch out for supply cords routed in the work area. Carelessly routed supply cords can constitute trip hazards and lead to injuries.
- Do not operate the product in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Electric appliances cause sparks which may ignite the dust or fumes.
- With vacuum cleaners it is necessary to ensure an adequate rate of air exchange (L)

in the room in situations where the expelled air is returned to the room.

- Stay alert, watch what you are doing and use common sense when operating the product. Do not use the product while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating the product can result in serious personal injury.
- Avoid unusual body positions. Keep proper footing and balance at all times.
- During use and maintenance of the product, the user and the other persons in the vicinity must wear personal protective equipment suitable for the application. Dealing with certain materials necessitates the use of additional protective equipment, information in the section headed “Material vacuumed up”
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of a vacuum cleaner can reduce dust-related hazards.
- This product is not intended for use by persons (including children) with physical, sensory or mental disabilities or persons lacking the appropriate experience and/or knowledge.
- Children must receive instruction and be supervised to ensure that they do not play with the product.
- This product can be used by children 8 years of age or older and by persons with physical, sensory or mental disabilities or little relevant experience or know-how if they are supervised or have received instruction on the safe use of the product and the resulting hazards. Do not allow children to play with the product. Do not allow unsupervised children to clean the device or to carry out user-maintenance tasks.
- The plug on the supply cord of the product must match the outlet. Do not change the plug in any way. Do not use adapter plugs with earthed (grounded) products. Unmodified plugs and matching outlets reduce risk of electric shock.
- Do not use the product with a damaged supply cord or supply cord plug. If the supply cord or supply cord plug is damaged, bring the product to a certified Hilti service center for checking and/or repair.
- Do not route the supply cord underneath carpets, furniture or other items. Do not cover the supply cord with small mats, runners or similar covers. Route the supply cord outside known pathways and make sure that the supply cord does not cause a trip hazard.
- Insert the plug in a suitable earthed/grounded power outlet which has been correctly

and safely installed and is in compliance with local regulations. If you are in doubt about the effectiveness of the power outlet's earth/ground connection, have it checked by a qualified specialist.

- Check to ensure that the supply cord does not lie in a puddle of water.
- Check the product's supply cord at regular intervals and have it replaced by Hilti Service if damage is found. Check extension cords at regular intervals and replace them if found to be damaged.
- Do not touch the supply cord or extension cord if they are damaged while working. Disconnect the supply cord plug from the power outlet. Damaged supply cords or extension cords present a risk of electric shock.
- The electric supply cord may be replaced only with a cord of the type specified in the operating instructions.
- Do not abuse the cord. Never use the cord for carrying, hanging up or unplugging the product. Keep the cord away from heat, oil, sharp edges and moving parts of the product. Damaged or entangled cords increase the risk of electric shock.
- Never pull the vacuum cleaner by the supply cord to a new working position. Do not run the wheels of the vacuum cleaner over the supply cord.
- In the event of an interruption in the electric supply, switch the product off and unplug it from the power outlet.
- When fitting the suction head on to the vacuum cleaner, take care to avoid pinching your fingers or damaging the supply cord. This presents a risk of injury or damage.
- Do not expose the product to rain or moisture. Water entering an electric device will increase the risk of electric shock.
- Never operate the product when it is dirty or wet. Dust (especially dust from conductive materials) or dampness on the surface of the product may, under unfavorable conditions, lead to electric shock. Have dirtied or dusty products checked at regular intervals by Hilti Service, especially if they are used frequently for working on conductive materials.
- Before carrying out care and maintenance work, changing filters or accessories or leaving the product temporarily out of use (e.g. for work breaks), disconnect the product from the primary power supply (disconnect the supply cord plug from the power outlet, remove the battery). This safety precaution prevents the product from starting accidentally.
- Use an antistatic suction hose in order to avoid electrostatic effects.

Careful handling and use of the product

- Never leave the product unattended.
- Operate the vacuum cleaner only with the main filter installed and intact. Always check the filter prior to each use of the vacuum cleaner.
- Protect the product from frost.
- Check the product and its accessories for any damage. Guards, safety devices and any slightly damaged parts must be checked carefully to ensure that they function faultlessly and as intended. Check that moving parts function faultlessly, without sticking, and that no parts are damaged. All parts must be fitted correctly and fulfill all conditions necessary for correct operation of the product.
- Have your product repaired only by qualified, skilled personnel, using only genuine Hilti spare parts. This ensures that the safety of the product is maintained.
- Do not transport the product by crane or with other hoists.
- Do not stand on the product (do not use it as a substitute for a ladder).
- Clean the water level limiting device regularly with a brush, in accordance with the instructions, and check it for signs of damage.
- Always activate the filter cleaning system when vacuuming up hazardous dusts, especially when the appliance is used in combination with power tools that generate dust.

The material vacuumed up

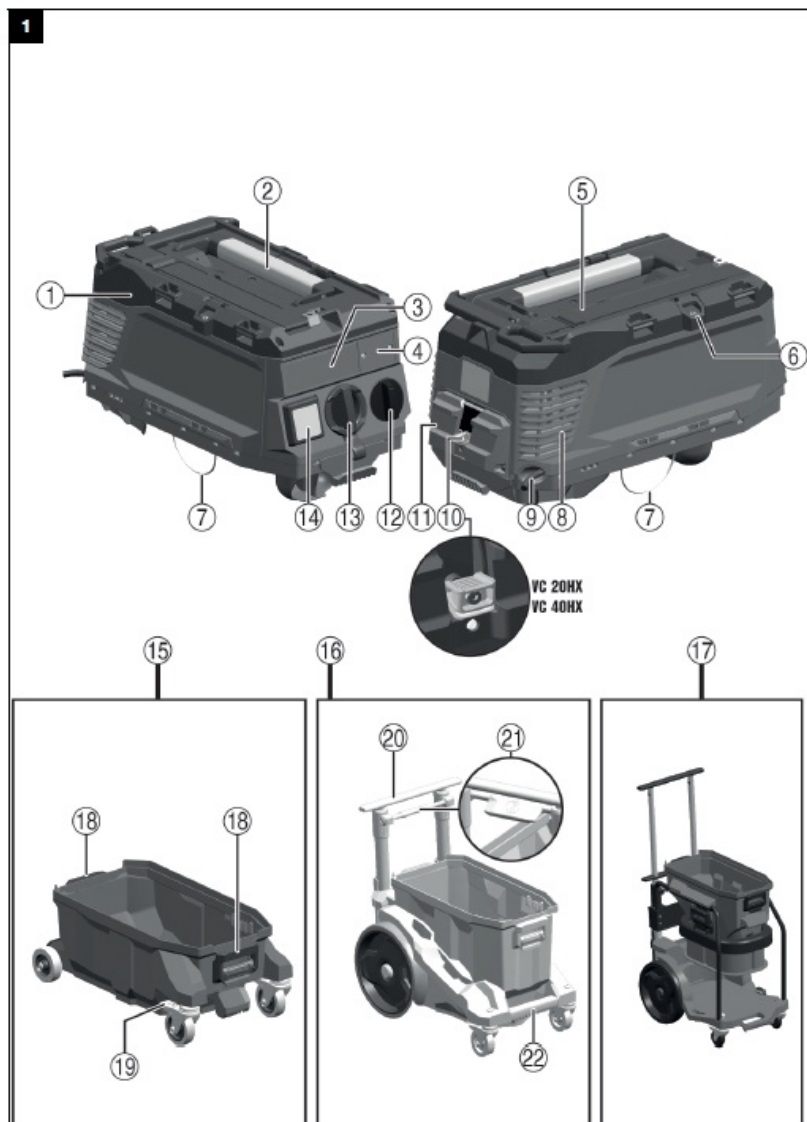
- Depending on the version, Hilti vacuum cleaners and dust extractors are classified for certain dust classes as belonging to dust class L, M or H in accordance with EN 60335-2-69. Depending on the version, dusts only up to the stated dust class can be vacuumed up with this product. Observe the specific national directives on dust classifications and the correct procedures for dealing with dusts that are hazardous to health.
- Before starting work, always check the hazard class of harmful dust that can be produced in working operations. Materials harmful to health such as asbestos and lead are explicitly not included in the intended use of the product and working with them is not permitted ²³. If you work with materials containing lead or asbestos nevertheless, the manufacturer's warranty for your product is voided.
- Switch the vacuum cleaner off immediately if foam or liquids escape from it.

- When working with mineral drilling slurry, wear protective clothing and avoid skin contact with the slurry (pH > 9: caustic).
- Avoid contact with alkaline or acidic liquids. If contact accidentally occurs, rinse with water. In the event of the liquid coming into contact with the eyes, rinse the eyes with plenty of water and consult a doctor.
- Dust produced by grinding, sanding, cutting and drilling can contain dangerous chemicals. Some examples are: lead or lead-based paints; brick, concrete and other masonry products, natural stone and other products containing quartz; certain types of wood, such as oak, beech and chemically treated wood; asbestos or materials that contain asbestos. Determine the exposure of the operator and bystanders by means of the hazard classification of the materials to be worked. Implement the necessary measures to restrict exposure to a safe level, for example by the use of a dust collection system or by the wearing of suitable respiratory protection. The general measures for reducing exposure include:
 - working in an area that is well ventilated,
 - avoidance of prolonged contact with dust,
 - directing dust away from the face and body,
 - wearing protective clothing and washing exposed areas of the skin with water and soap.
- Wear protective gloves when using the appliance to vacuum up hot materials at temperatures up to 60 °C (140 °F).
- The vacuum cleaner must be equipped with suitable filters corresponding to the hazard classification of the dusts to be vacuumed up.
- Do not vacuum up objects or materials that could cause injury by piercing through the dust bag (e.g. pointed or sharp objects).

Description

Product overview 1

1.

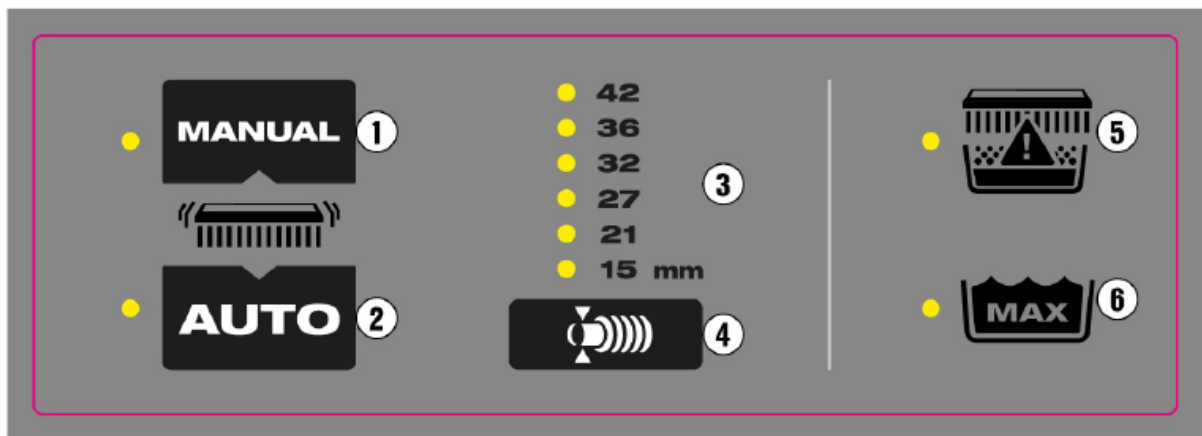


Suction head

2. Carrying handle
3. Display and control panel
4. Blanking cover for wireless module (optional)
5. Lashing loop for Hilti case
6. Securing hook (2 of) with rubber strap
7. Wire sensors, fill level monitoring
8. Discharged-air outlet
9. Supply cord
10. Filter cassette retainer
11. Filter cassette
12. Operating mode rotary switch
13. Intake fitting (suction hose)
14. Electric tool power outlet
15. Container, VC 20 / VC 150-6
16. Container, VC 40 / VC 150-10

17. Tank for endless bag VC-CB (optional)
18. Container latch (2×)
19. Castors with brake
20. Transport handle (extending)
21. Retainer for transport handle
22. Carrying handle

Display and control panel



1. Operating button for manual filter cleaning
2. Operating button, automatic filter cleaning
3. Indicator, selected hose diameter
4. Operating button, hose diameter setting
5. LED indicator, filter status
6. LED indicator, maximum water fill level

Intended use

The products described here are industrial vacuum cleaners designed for universal, commercial use. They can be used for wet or dry applications.

To reduce the risk of injury, use only genuine Hilti accessories and accessory tools. Use an antistatic suction hose in order to avoid electrostatic effects.

Permissible applications

- Vacuuming up large quantities of mineral dust from work with Hilti diamond grinders, cut-off saws, rotary hammers and core drilling machines using dry-cutting core bits

- Vacuuming up mineral drilling slurry from work with Hilti diamond core bits or Hilti diamond saws
- Liquid mediums up to a temperature of max. 60 °C (140 °F)
- Vacuuming up wood chips from work with Hilti saws and drills
 - VC 20LX
 - VC 40LX
- Vacuuming up dry, non-flammable dusts, liquids, wood shavings and hazardous dusts with an exposure limit value of $> 1 \text{ mg/m}^3$ (dust class L).
VC 20MX
VC 40MX
- Vacuuming up health-hazardous dry, non-flammable dusts, liquids, wood chips and hazardous dusts with exposure limit values $\geq 0.1 \text{ mg/m}^3$ (dust class M).
- Machines designed for picking up mineral dust containing quartz must correspond to at least dust class M.
VC 20HX
VC 40HX
- Vacuuming up dry, non-flammable, hazardous dusts of dust class H in accordance with EN 60335-2-69.

Impermissible applications

- Vacuuming up materials and liquid mediums hotter than 60 °C (140 °F) (e.g. glowing cigarettes, hot ashes)
- Vacuuming up aggressive and flammable liquid mediums, such as for example coolants and lubricants, oils, gasoline, solvents, acids (pH < 5), alkalies (pH > 12.5)
- Vacuuming up pointed or sharp-edged objects which can, for example, damage an inserted dust bag
- Vacuuming up flammable and/or explosive dusts (e.g. wood dust, magnesium dust and powder, aluminum dust and powder)
- Vacuuming up asbestos, materials containing asbestos, lead and materials containing lead

VC 20HX

VC 40HX

H-class vacuum cleaners must be serviced as necessary, but at least once a year, and if necessary, repaired, and tested by a person with expert knowledge. The test result must be produced on request.

Always comply with the regulations of the country in which the device is used! Comply with the applicable national accident prevention regulations when working with H-class vacuum cleaners.

Possible misuse

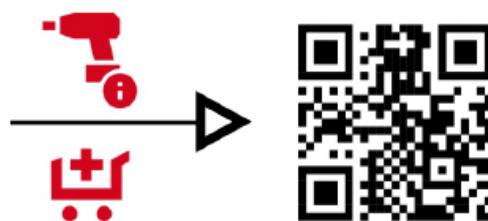
- Use in stationary continuous operation, e.g. in automatic or semi-automatic systems
- Operation of the vacuum cleaner when the vacuum cleaner is lying on its side
- Use of the vacuum cleaner as a substitute for a ladder
- Transport of the vacuum cleaner by crane or other lifting equipment

Instructions for use

Visit the Hilti product page!

All the dust bags, filters, and other accessories suitable for your vacuum cleaner can be found on our product page at qr.hilti.com/r0000000

Scan the QR code for the direct route to the Hilti product page.



Accessories and types of use

Always use dust bags only once. All dust bags are designed for one-time use and can tear if reused.

Accessories	Type of use
Dust bag, plastic, PE VC 20, VC 150-6	Applications with mineral materials (dry)

Dust bag, plastic, PE VC 40, VC 150-10	Applications with mineral materials (dry)
Dust bag Fleece VC 20, VC 150-6	Applications with wood materials (dry) (not suitable for applications with mineral materials)
Dust bag Fleece VC 40, VC 150- 10	Applications with wood materials (dry) (not suitable for applications with mineral materials)
VC 20H-X dust bag* (plastic)	Working with mineral materials, wet and dry
VC 40H-X dust bag* (plastic)	Working with mineral materials, wet and dry
PTFE filter VC 20/40/150	All applications (wet and dry)
VC 20/40/150 universal filter	All applications (wet and dry)
HEPA filter VC 20/40/150	Wet and dry
H VC 20/40/150 filter*	Special filter for applications with dust class H (can be bump-cleaned)
36×4,65M AS suction hose	Wet and dry
<p>*When using a class H vacuum cleaner, you must always use an appropriate filter (dust class H certified) and dust bag (dust class H certified). Otherwise, the vacuum cleaner's dust class certification cannot be ensured.</p>	

Special stickers on the product

WARNING: This vacuum cleaner contains dusts that are hazardous to health. Only trained specialists wearing suitable protective equipment are permitted to undertake emptying and maintenance, including disposal of the dust bag. Operate the vacuum

cleaner only with the filter system complete and in full working order. The dust classification is indicated on the sticker affixed to the product. One of the following warning stickers is affixed to the vacuum cleaner:

Warning sticker L

VC 20LX in accordance with IEC 60335-2-69:2021
VC 40LX in accordance with IEC 60335-2-69:2021



Warning sticker M

VC 20MX in accordance with IEC 60335-2-69:2021
VC 40MX in accordance with IEC 60335-2-69:2021



Warning sticker H

VC 20HX in accordance with IEC 60335-2-69:2021
VC 40HX in accordance with IEC 60335-2-69:2021



Make sure that the warning sticker is clearly visible.

Items supplied

Wet/dry vacuum cleaner including filter element, suction hose complete with rotatable connector (at the vacuum cleaner end) and connector for accessories, PE dust bag (plastic), operating instructions Other system products approved for use with this product can be found at your local Hilti Store or at: www.hilti.group

Bluetooth










This product is equipped with Bluetooth (optional).

Bluetooth is a wireless data transfer system by which two Bluetooth-enabled products can communicate with each other over a short distance.

Indicators and warnings

The vacuum cleaner has various monitoring systems that issue visual warnings (LEDs) or emit acoustic warnings (warning tone):


LED indicator elements

Indicator element	LED Indicator	Meaning
	LED shows green	Automatic filter cleaning is activated.
	LED flashes orange	Main filter is almost full and must be bump-cleaned  29.
	LED shows red	Possibility 1: Waste material container is full. Check the fill level of the waste material container. Possibility 2: Main filter is clogged. Perform manual bump-cleaning of the filter  29. If the LED remains on, replace the main filter  32.
	LED flashes red	No main filter inserted or main filter inserted incorrectly. Check that a main filter is inserted and that it is has been installed correctly  32.
	LED shows red (Wet vacuum cleaning only)	The maximum fill level has been reached and fill level monitoring has tripped. Empty the waste material container  31.

Acoustic warnings

- VC 20MX
- VC 40MX
- VC 20HX
- VC 40HX

A warning tone sounds if the air speed in the suction hose drops below 20 m/s.

In order to ensure that the warning is emitted correctly, the hose diameter setting must  be set to the diameter of the suction hose in use.

Filter cleaning

The vacuum cleaner has manual and automatic filter cleaning that removes most of the dust adhering to the filter element. The filter element is cleaned automatically by a blast of air (a pulsating noise is heard). The filter cleaning system functions only when a suction hose is connected.

Automatic filter cleaning can be switched off by pressing the button and switched back on by pressing the button again.

Independent of automatic filter cleaning, the filter can be manually cleaned at any time
29.

Observe the meaning of the LED indicators for the operating buttons of filter cleaning.

25 Automatic filter cleaning is activated each time the vacuum cleaner is switched on.

In order to maintain a continuously high suction power, in system applications (especially grinding and sanding, cutting and slitting) or when vacuuming up large quantities of dust, automatic filter cleaning must be activated.

Technical data

Product properties

If the appliance is powered by a generator or transformer, the generator or transformer's power output must be at least twice the rated input power shown on the rating plate of the appliance. The operating voltage of the transformer or generator must always be within +5 % and -15 % of the rated voltage of the product.

	VC 20LX	VC 40LX	VC 20M X	VC 40M X	VC 20HX	VC 40H X
Product generation	5	5	5	5	5	5
Weight	11 kg	14.8 kg	11 kg	14.8 kg	11 kg	14.8 kg

	VC 20LX	VC 40LX	VC 20M X	VC 40M X	VC 20HX	VC 40H X
Effective dust capacity	15 kg	34 kg	15 kg	34 kg	15 kg	34 kg
Effective water capacity	9 ℓ	22.8 ℓ	9 ℓ	22.8 ℓ	9 ℓ	22.8 ℓ

Container capacity	15 ℓ	30 ℓ	15 ℓ	30 ℓ	15 ℓ	30 ℓ
Max. additional load	25 kg	25 kg	25 kg	25 kg	25 kg	25 kg
Air temperature	-10 °C ... 40 °C	-10 °C ... 40 °C	-10 °C ... 40 °C	-10 °C ... 40 °C	-10 °C ... 40 °C	-10 °C ... 40 °C
AC frequency	50 Hz ... 60 Hz	50 Hz ... 60 Hz	50 Hz ... 60 Hz	50 Hz ... 60 Hz	50 Hz ... 60 Hz	50 Hz ... 60 Hz
Filter cleaning	automatic, sensor-controlled	automatic, sensor-controlled	automatic, sensor-controlled	automatic, sensor-controlled	automatic, sensor-controlled	automatic, sensor-controlled
Protection class	I	I	I	I	I	I
Degree of protection	IP X4	IP X4	IP X4	IP X4	IP X4	IP X4

Rated voltage

	110 V (GB 16 A)	220/240 V	220-240 V (CH)	220-240 V (NZ)
Rated power input	1,100 W	1,200 W	1,200 W	1,200 W

Power rating of the built-in electric tool power outlet on the appliance	650 W (only versions with built-in electric tool power outlet)	2,400 W	1,100 W	1,200 W
Mains connection (type)	H07 RNF 3 G 1.5 mm ²	H07 RNF 3 G 1.5 mm ²	H07 RNF 3 G 1.5 mm ²	H07 RNF 3 G 1.5 mm ²

Volumetric flow rate and vacuum

		110 V (GB 16 A)	220-240 V	220-240 V (CH)
Max. volume flow rate	Turbine	71 l/s 255.6 m ³ /h 150 cfm	74 l/s 266.4 m ³ /h 157 cfm	74 l/s 266.4 m ³ /h 157 cfm
	Hose end	49.2 l/s 177.1 m ³ /h 104 cfm	50.6 l/s 183 m ³ /h 107 cfm	50.6 l/s 183 m ³ /h 107 cfm
Max. vacuum		22.3 kPa (223 mbar)	24.5 kPa (245 mbar)	24.5 kPa (245 mbar)

		220-240 V (NZ)
Max. volume	Turbine	74 l/s 266.4 m ³ /h 157 cfm

e flow rate	Hose end	50.6 ℓ/s 183 m³/h 107 cfm
Max. vacuum		24.5 kPa (245 mbar)

Noise information

Sound power level (L_{WA})	83 dB(A)
Sound pressure level (L_{pA})	70 dB(A)
Uncertainty (noise values) (K_{pA} and K_{WA})	2 dB(A)

Total vibration

Total vibration < 2.5 m/s²

Preparations at the workplace

1. Removing suction head

1. Disconnect the supply cord plug from the power outlet.
2. Open the 2 catches.
3. Lift the suction head off the waste material container.
4. Set the suction head on a smooth sub-base.

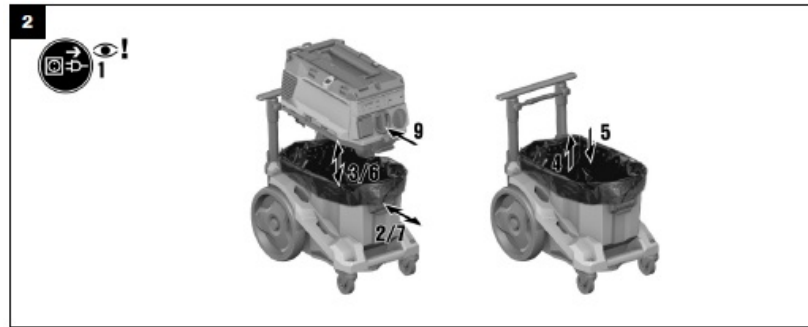
2. Installing suction head

1. Check the contact surfaces on the suction head for dirt.
2. Position the suction head on top of the waste material container.
3. Check that the suction head is correctly seated and engage the catches.
4. Close the catches.
5. Check to ensure that the suction head is installed correctly and secured.

3. Fitting a plastic dust bag 2

1. Remove the suction head from the waste material container.
2. Insert the dust bag into the waste material container.
3. Fold the dust bag over the edge of the waste material container all round.
Be sure to create an overlap of approx. 5 cm for optimum sealing.
4. Position the suction head on the waste material container.

5. Connect the suction hose.




4. Fitting a fabric dust bag

1. Remove the suction head from the waste material container.
2. Insert the dust bag into the waste material container.
3. Insert the adapter into the holder provided for the purpose.
4. Make sure that the adapter engages correctly and that the dust bag does not project past the edge of the waste material container.
5. Position the suction head on the waste material container.
6. Connect the suction hose.

5. Connecting/disconnecting the suction hose

1. To connect, push the suction hose into the intake fitting.
2. To disconnect, twist the suction hose back and forth and pull it out of the intake fitting.

6. Setting the hose diameter

1. For vacuuming up dry, non-flammable dust which has an exposure limit value, or when vacuuming up wood shavings, adjust the hose diameter setting switch to the correct diameter setting for the suction hose used.
2. Change the setting for the hose diameter, and consequently the threshold for the acoustic warning, by repeatedly pressing the  button

Operation

CAUTION

Risk of injury presented by the appliance running away out of control. The vacuum cleaner may run away out of control if the wheel brakes are not engaged.

Engage the wheel brakes so that the vacuum cleaner stands securely.

WARNING

In an emergency (e.g. filter ruptured), switch the vacuum cleaner off, disconnect the vacuum cleaner from all power sources (remove battery or unplug supply cord) and have the vacuum cleaner checked by a trained and qualified person before further use.

Switching the vacuum cleaner on or off

Switching on vacuum cleaner and selecting operating mode

1. Turn the operating mode rotary switch to one of the following functions:

ON: The vacuum cleaner runs in the normal operating mode

AUTO : The vacuum cleaner can be controlled automatically via a connected system product or via a Bluetooth connection.

Follow the instructions on safety and use in the operating instructions of the system product or the accessory.

Switching off vacuum cleaner

2. Turn the operating mode rotary switch to the OFF position.

Bump-cleaning main filter

You can bump-clean the filter only when the vacuum cleaner is switched on.

1. Close off the end of the hose.

This maximizes bump-cleaning power.

2. Wait until maximum vacuum has built up.
3. Press the operating button.

Vacuuming up dry dust

CAUTION

Risk of injury by dusts that are hazardous to health! Hazardous material that has been vacuumed up can escape if a main filter is not used.

Use the vacuum cleaner only with a main filter inserted.

Before vacuuming up dry dust, especially dust from mineral materials, always check to ensure that the correct dust bag is fitted in the container. The material vacuumed up by the vacuum cleaner can then be disposed of cleanly and easily.

1. Select an operating mode.

2. Vacuum up the dry dust.

After vacuuming up dry dusts

3. Empty the waste material container.

4. Clean the vacuum cleaner with a damp cloth.

5. Position the suction head on the waste material container.

6. Check the main filter for damage.

Replace a damaged main filter.

Vacuuming up liquids

1. Check the container level monitoring system.

2. If possible, use a separate main filter for wet applications.

For information about suitable filters, consult the instructions for use for accessories

Select an operating mode.

3. Use the vacuum cleaner to vacuum up the liquids.

4. After vacuuming up liquids

5. Remove the suction head from the waste material container.

6. Empty the waste material container.

7. Check the container level monitoring system.

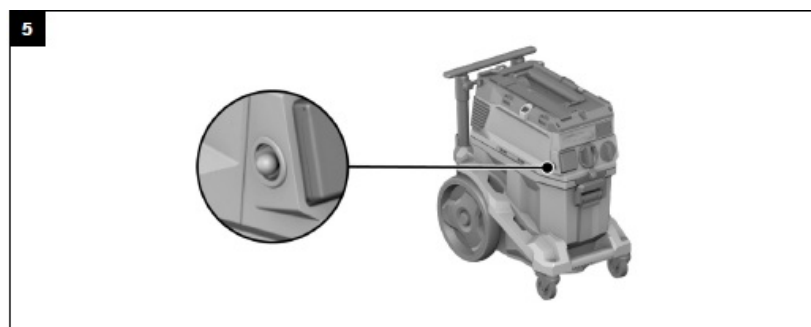
8. Check the main filter for damage.

Replace a damaged main filter.

9. Position the suction head on the waste material container.

System applications

Using an overcurrent protection circuit-breaker 5



Only for the Australia and New Zealand markets

The fuse protects the electric tool power outlet from current spikes. If the fuse trips, the overcurrent protection circuit-breaker (white) appears underneath the transparent cover. To keep the fuse from tripping again, rectify the cause of the problem (e.g. disconnect the electrical device from the electric tool power outlet).

To restore the AC supply to the electrical device connected to the power outlet, press the overcurrent protection circuit-breaker.

Operation with use of the power outlet on the appliance

The power outlet on the appliance is to be used only for powering electric tools directly from the vacuum cleaner.

The operating instructions and safety instructions for the electric tool plugged into the power outlet on the vacuum cleaner must be observed.

Only for the Switzerland and Liechtenstein markets: Use the electric tool power outlet only for applications in dry ambient conditions.

1. Unplug the vacuum cleaner's supply cord from the power outlet.
2. Check that the maximum power drawn by the electric tool is below the maximum permissible output of the power outlet on the vacuum cleaner (please refer to the "Technical data" section of the operating instructions and information printed at the power outlet on the appliance).
3. Check to ensure that the electric tool is switched off before plugging its supply cord into the power outlet.
4. Plug the electric tool's supply cord into the power outlet on the vacuum cleaner.
5. Plug the vacuum cleaner's supply cord into the power outlet.
6. Turn the control switch to the "Auto" position.
7. Switch on the power tool.

The vacuum cleaner will continue to run for a short time after the electric tool is switched off in order to ensure that all dust is removed from the suction hose.

Operation without use of the electric tool power outlet

1. Before plugging the supply cord into a power outlet, check that the control switch is in

the OFF position.

2. Plug the vacuum cleaner's supply cord into the power outlet.
3. Turn the control switch to the ON position.

Care and maintenance

Instructions for care of vacuum cleaners

WARNING

Electric shock hazard! Improper repairs to electrical parts can lead to serious injuries due to electric shock.

Electrical parts may be repaired only by trained electrical specialists.

- Use only a slightly damp cloth to clean the housing. Do not use cleaning agents containing silicone as these can attack the plastic parts.
- Use a dry, clean cloth to clean the contacts of the product.
- Keep the vacuum cleaner, especially its gripping surfaces, clean and free from oil and grease. Do not use cleaning agents containing silicone.
- Never operate the vacuum cleaner when the air vents are blocked! Clean the air vents carefully using a dry brush. Prevent foreign matter from penetrating inside the turbine aperture.
- Clean the top edge of the waste material container and its groove with particular care, because cleanliness here is decisive for the seal between waste material container and suction head.

Additional instructions for care of vacuum cleaners for dusts that are hazardous to health

- VC 20MX
- VC 40MX
- VC 20HX
- VC 40HX
- DANGER

Risk of injury by contact with or inhalation of dusts that are hazardous to health!

Depending on the dust classification, the vacuum cleaner might contain dust that is hazardous to health.

- Emptying and maintenance, including disposal of the dust collection container, may be carried out only by trained and qualified specialists. Wear the appropriate protective equipment.
- All parts of the machine must be assumed to be contaminated when they are removed from the hazardous zone. Implement suitable means of preventing the spread of dust.
- Never operate the vacuum cleaner without the complete filter system fitted.
- Handling of the vacuum cleaner for cleaning and maintenance must be such that maintenance personnel and others are not endangered.
- Use filtered air extraction (e.g. an air cleaner) that continuously filters the dusts that are hazardous to health out of the room air.
- Wear personal protective equipment.
- Clean the maintenance area in a way that prevents hazardous substances escaping into the surrounding environment.
- Before removing the vacuum cleaner from the area contaminated with hazardous substances, use the vacuum cleaner to vacuum its own exterior clean, wipe it clean or place the vacuum cleaner in a sealed bag or container. This will help to avoid the distribution of the hazardous dust deposited on it.
- When maintenance or repairs are carried out, all contaminated parts which cannot be satisfactorily cleaned must be packed in impermeable bags and disposed of in compliance with the applicable disposal regulations.
- The appliance must be subjected to a technical inspection by Hilti Service or a trained person at least once a year to check, for example, for damage to the filter, air leakage, and to ensure correct operation of the controls.

VC 20HX

VC 40HX

In addition, the filter efficiency of H-class vacuum cleaners has to be tested at least once a year or possibly more frequently if so required by country-specific regulations. The procedure that can be used for verifying the filter efficiency of the machine is set out in

EN 60335-2-69 (22.AA.201.2). If failed, the test has to be repeated with a new main filter installed.

Emptying dry dust from the waste material container

1. Remove the suction head from the waste material container.
2. Hold the waste material container by the grip recesses provided and empty it by tipping out the contents, or remove the dust bag.
3. Position the suction head on the waste material container.

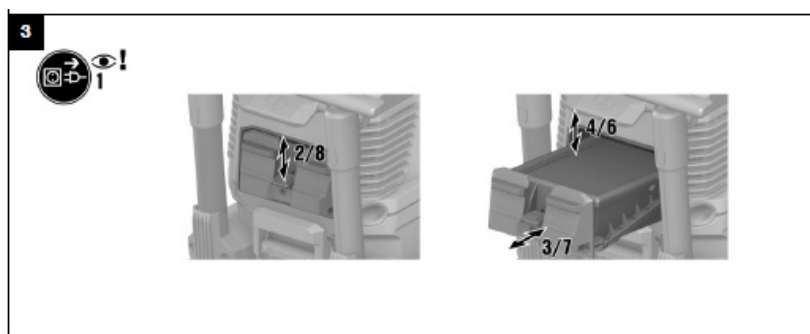
When you want to cease vacuuming, follow the directions in the section: After vacuuming up dry dust

Emptying the waste material container when no dust bag is fitted (vacuuming up liquids)

1. Remove the suction head from the waste material container.
2. Hold the waste material container by the grip recesses provided and empty it by tipping out the contents.
3. Clean the edge of the waste material container with a cloth.
4. Position the suction head on the waste material container. 28

When you want to cease vacuuming, follow the directions in the section: After vacuuming up liquids

Changing main filter 3



1. Switch the vacuum cleaner off.

If the following equipment exists, also take this action:

VC 20HX

VC 40HX

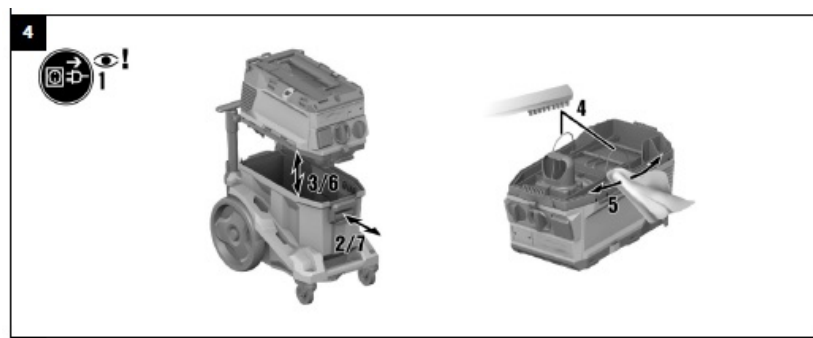
2. Slacken the locating screw with a hex key (5 mm).
3. Open the retainer for the filter cassette.
4. Open the filter cassette.
5. Carefully remove the main filter from the grip recesses provided in the holder.
6. Clean the sealing surface with a cloth.
7. Insert the new. main filter into the filter cassette.
8. Close the filter cassette by flipping the cover catch forward.
9. Close the retainer for the filter cassette.
10. Be sure to remove the dust that escapes from the vacuum cleaner and/or the main filter due to the filter change operation.
11. If the following equipment exists, also take this action:

VC 20HX

VC 40HX

Secure the filter cassette with the positioning screw (5 mm).

Checking the container level monitoring system 4



The product has fill level monitoring that prevents water from making its way into the turbine, thus preventing damage to the turbine and the product. The fill level is monitored by 2 wire sensors. Make sure that the wire sensors are always in perfect working order and that no modifications have been made and nothing has been tampered with. Otherwise, product functionality is not ensured. Check and clean the sensors only as described below.

1. Remove the suction head from the waste material container.
2. Check the cut-off contacts (wire sensors) for dirt accretions and if necessary, brush

the contacts clean.

3. Check the seal at the suction head and clean it with a cloth if necessary.
4. Position the suction head on the waste material container.

Transport

- Do not attempt to crane-lift the vacuum cleaner.
- Store accessories and attachments in the holders intended for the purpose.
- Empty the vacuum cleaner before the vacuum cleaner is to be carried to another location.
- After using it to vacuum up liquids, do not tilt the vacuum cleaner and transport the vacuum cleaner in the upright position only.
- Use the tapered adapter to connect both ends of the hose together conveniently for transport.
 - VC 20MX
 - VC 40MX
 - VC 20HX
 - VC 40HX

WARNING

Risk of injury by dusts that are hazardous to health! Hazardous material that has been vacuumed up can escape through the suction hose intake fitting.

Close the hose inlet socket with the cap before transporting the vacuum cleaner and when it is not in use.

Safety instructions for dust-free transportation

The following measures must be implemented for dust-free transportation:

In principle, all parts of the vacuum cleaner must be considered contaminated if the vacuum cleaner was used in a contaminated area. Treat the vacuum cleaner accordingly and take all necessary measures to prevent dispersion of the hazardous dust.

- Place the suction hose in the transport bag provided for the purpose and seal the transport bag.
- Seal the suction intake.
- Remove the suction tube with floor nozzle from the holder. Carry the vacuum cleaner

by the carrying handle and the suction tube, not the pushbar.

- Before you remove the vacuum cleaner from a contaminated area, the outside of the vacuum cleaner must be decontaminated by vacuum and thoroughly cleaned or treated with sealants.

Storage

- Clean the vacuum cleaner after vacuuming up dry dusts 29 or liquid mediums 30.
- Make sure that no residual water remains in the container and that there are no residues for example of drilling slurry that can become caked in the suction hose and container.
- Store the vacuum cleaner in a secure, dry place where it is inaccessible to unauthorized users.
- The vacuum cleaner may be stored only indoors.

Troubleshooting

If the trouble you are experiencing is not listed in this table or you are unable to rectify the problem by yourself, contact Hilti Service.

Possible malfunctions affecting the product

Malfunction	Possible cause	Action to be taken	
Acoustic warning (reduced suction power)	The dust bag is full.		Change the dust bag.
	The filter element is clogged with dirt or dust.		If the automatic filter cleaning system is deactivated, activate it and allow the vacuum cleaner to run for 30 seconds.
	The suction hose or dust hood on the electric tool is blocked.		Clean the suction hose and the dust hood.









	The hose diameter setting is incorrect.		Set the hose diameter to 28.
Dust is blown out of the appliance.	Main filter is not installed correctly.		Re-install the main filter. 32
	Main filter is damaged.		Install a new main filter. 32
The appliance switches it- self off or on inadvertently or static electricity discharges through the user.	Electrostatic charge is not conducted away – the appliance is connected to an unearthed/ungrounded power outlet.		Connect the appliance to an earthed/grounded power outlet and use an anti-static suction hose.
The motor doesn't restart.	The mains circuit breaker has been tripped.		Reset the circuit breaker. Find the reason for the overload current if the circuit breaker trips again.
	The waste material container is full.		Switch the appliance off and empty the waste material container.
	The motor overheating protection cut-out has been activated.		Switch the appliance off and allow it to cool down for about 5 minutes. If the motor doesn't start, return the appliance to Hilti Service.

Malfunction	Possible cause	Action to be taken
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The motor doesn't restart.	The motor is repeatedly switched off by its thermal cut-out.	Clean the air vents carefully using a dry brush.
The motor doesn't run when set to "AUTO".	The appliance is faulty or is not correctly plugged in.	Make sure that the supply cord plug is fully plugged in and check that the appliance functions correctly.
The automatic filter element cleaning system doesn't work.	No suction hose connected.	Connect the suction hose.

Possible malfunction during a system application

The fault messages shown here can be displayed on the multifunction display of a system product (e.g. diamond core drilling machine). Follow the instructions in the troubleshooting section of the operating instructions for the system product.

Malfunction	Possible cause	Action to be taken
 The Change filter service indicator lights up.	Main filter is clogged or too old.	<ul style="list-style-type: none"> ▶ Check the fill level in the waste material container. ▶ Press the  MANUAL operating button.  26 ▶ Change the filter, if necessary.  32
	No main filter inserted.	<ul style="list-style-type: none"> ▶ Insert a suitable main filter.  32
 Vacuum cleaner does not start or switches itself off after a short time.	The container level monitoring system has been triggered.	<ul style="list-style-type: none"> ▶ Empty the waste material container.  31
		<ul style="list-style-type: none"> ▶ Check the container level monitoring system.  32

Disposal

WARNING

Risk of injury due to incorrect disposal! Health hazards due to escaping gases or liquids.

- DO NOT send batteries through the mail!
- Cover the terminals with a non-conductive material (such as electrical tape) to prevent short circuiting.
- Dispose of your battery out of the reach of children.
- Dispose of the battery at your Hilti Store, or consult your local governmental garbage disposal or public health and safety resources for disposal instructions.
- Most of the materials from which Hilti products are manufactured can be recycled. The materials must be correctly separated before they can be recycled. In many countries, your old tools, machines or appliances can be returned to Hilti for recycling. Ask Hilti Service or your Hilti sales representative for further information.
- Do not dispose of power tools, electronic equipment or batteries as household waste!

Manufacturer's warranty

Please contact your local Hilti representative if you have questions about the warranty conditions

Further information

- VC 20LX
- VC 40LX
- VC 20MX
- VC 40MX

For more information on operation, technology, environment, RoHS declaration (markets in China and Taiwan only) and recycling, follow this link: qr.hilti.com/manual/?id=2418905&id=2418968.

This link is also to be found at the end of the operating instructions, in the form of a QR code.

VC 20HX

VC 40HX

For more information on operation, technology, environment, RoHS declaration (markets in China and Taiwan only) and recycling, follow this link: qr.hilti.com/manual/?id=2418904.

This link is also to be found at the end of the operating instructions, in the form of a QR code.

Declaration of conformity

The manufacturer declares, on his sole responsibility, that the product described here complies with the applicable legislation and standards.

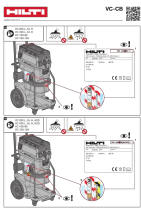
The technical documentation is filed here:

Hilti Entwicklungsgesellschaft mbH | Tool Certification | Hiltistrasse 6 | D-86916 Kaufering, Germany

Product information

Wet/dry vacuum cleaner	VC 20LX & VC 40LX VC 20MX & VC 40MX VC 20HX & VC 40HX VC 20MX-ACD & VC 40HX-ACD
Generation	05
Serial no.	1–999999999999

Documents / Resources

	HILTI VC-CB M Class Dust Extractor [pdf] User Guide VC-CB M Class Dust Extractor, VC-CB, M Class Dust Extractor, Class Du st Extractor, Dust Extractor, Extractor
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References

- [User Manual](#)

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