



V. BRØNDUM A/S

USER MANUAL

(Original) (Country code EU ; CH ; DK)



RONDA[®] 200H

RONDA[®] 200H-S

Handy Industrial Vacuum Cleaner for Fine Dust and
Dust Hazardous to Health

IMPORTANT!

Read this manual before you start using the vacuum cleaner.

User Manual

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User Manual

RONDA® 200H and 200H-S

Industrial Vacuum Cleaner for Fine Dust and Dust Hazardous to Health

General Description

Congratulations on your new RONDA® 200H / RONDA®200H-S industrial vacuum cleaner from V. BRØNDUM A/S.



Read this manual before you operate the machine.

Keep the manual readily accessible to all users.

RONDA® 200H / RONDA®200H-S is an industrial vacuum cleaner developed for the collection of very fine and health hazardous dust. RONDA® 200H / RONDA®200H-S meets the requirements for vacuum cleaners within the industry and the construction industry today. The machine is ideal for the collection of fine and health hazardous dust, such as cement or dust from grinding machines. The machine is ideal for use in connection with hand tools.



- Self-cleaning Teflon-coated multi-tube filter (BIA dust class "M")
- Filter cleaning during operation with back flush valve
- HEPA-filter (BIA/IFA dust class "H")
- Protection level IPX4 (IEC 60 529)
- Satisfies the demands of EN 60 335-2-69 Annex AA, for collection of health hazardous dust in dust class "H"
- Electrical outlet with automatic start/stop
- Beeper alarm in case of too low air flow
- Soft start of motor
- Post-suction when using hand tool

RONDA®200H-S is mounted with separate exhaust coupling. It is relatively easy to mount separate exhaust coupling on RONDA® 200H, if this is required.

It is, however, necessary to send the motor top to V.Brøndum A/S - or the dealer - for alteration. The machine cannot immediately be restored to the original RONDA® 200H without exhaust coupling.

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The user manual is to ensure a secure operation of the vacuum cleaner, and to secure that the user is in no way uncertain as to the use. The manual must be stored near the vacuum cleaner.

Does any uncertainty arise as to the use of the vacuum cleaner or the material collected, the work should be stopped until all questions have been cleared.

Pictures and drawings are for illustrative purpose and will make the understanding of the manual easier. The pictures shown may therefore be different from the actual product.

Safety Precautions

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

- The appliance is **NOT** approved for collection of flammable, explosive, poisonous or extremely health hazardous dust, fluids or gasses.
- **DO NOT USE THE VACUUM CLEANER WITHOUT A PROPER GROUND CONNECTION.** This vacuum cleaner is designed to be used with a grounding connection, in an installation with HFI or HPFI. The user is responsible for ensuring that the wall outlet is grounded. The ground connection of the plug must **NOT** be removed.
- RONDA® 200H / RONDA®200H-S must be connected to 230 V power supply. Make sure that the voltage and safety fuse of the power supply correspond with the data of the data plate and the information given in this manual.
- RONDA® 200H / RONDA®200H-S may be used for collection of dust hazardous to health according to CEI/IEC 60335-2-69 Annex AA, dust class **H**.
- The appliance must be emptied after use.
- The user must ensure that the appliance is adjusted to the task and that regulatory requirements are met.
- When collecting dust hazardous to health you must use a filter bag, and disposal must comply with the legal requirements for material (closed container, plastic bag etc.).
- Avoid damaging the supply cord. When replacing the supply cord, only use an original supply cord (see the spare parts list). V. BRØNDUM A/S, an authorized V. BRØNDUM A/S dealer or an equally qualified person must carry out the replacement in order to avoid danger. Regularly check the mains connection for damage, such as fissures or ageing. If damage is found, the supply cord must be replaced before further use.
- The plug must be removed from the power supply before repair and maintenance operations.
- The mains socket of the machine is to be used only for the purposes specified in the user manual.
- This machine is intended for commercial use, e.g. in hotels, schools, hospitals, factories, shops, offices and rental businesses.
- **Before use** operators should be provided with information, instruction and training for the use of the appliance and the substances for which it is to be used, including the safe method of removal and disposal of the material collected.
- For user servicing, the appliance must be dismantled, cleaned and serviced, as far as is reasonably practicable, without causing risk to the maintenance staff and others. Suitable precautions include

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decontamination before dismantling, provision for local filtered exhaust ventilation where the appliance is dismantled, cleaning of the maintenance area and suitable personal protection.

- In the case of class H appliances the outside of the appliance should be decontaminated by vacuum cleaning methods and wiped clean or treated with sealant before being taken out of a hazardous area. All the appliance parts shall be regarded as contaminated when removed from the hazardous area and appropriate action taken to prevent dust dispersal.
- The manufacturer, or an instructed person, shall perform a technical inspection at least annually, consisting of, for example, inspection of filters for damage, air tightness of the appliance and proper function of the control mechanism. On class H appliances the appliance filtration efficiency should be tested at least annually, or more often, according to national requirements. The test method that may be used for the verification of the appliance filtration efficiency is given in AA.22.201.2. If the test will not be passed, it must be repeated with a new essential filter.
- When carrying out service or repair operations, all contaminated items, which cannot be satisfactorily cleaned, are to be disposed of. Such items shall be disposed of in impervious bags in accordance with any current regulation of the disposal of such waste.
- The upper part of the motor top is a non-dust proof compartment, and when cleaning, the covers of this compartment are removed by loosening the screws fixing the covers.
- **IMPORTANT! The vacuum cleaner must not be started with covers removed.**
- **When the automatic start/stop is activated in connection with electrical hand tools, you must ALWAYS turn off the hand tools before you turn off the machine.**
- **IMPORTANT! The motor top must not be covered when the vacuum cleaner is in use.**

Guidelines in Connection with Disposal of the Machine



The product you have purchased is subject to Directive 2002/96/EC of the European Parliament and the Council of the European Union on waste electrical and electronic equipment (WEEE) and should not be disposed of as unsorted municipal waste. Please utilize your local WEEE collection facilities in the disposition of this product and otherwise observe all applicable national requirements.

Does the safe use or maintenance of the appliance raise any questions, do not hesitate to contact either your dealer or V. BRØNDUM A/S.

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General Safety Instructions

When using electrical equipment the necessary safety precautions must be taken in order to avoid the risk of fire, electrical shock and damage to persons. The below safety instructions are to be read and followed when the vacuum cleaner is being used.

1. Keep the working area clean. Slippery and greasy surfaces increase the risk of accidents.
2. Be aware of the surroundings. Do not expose the vacuum cleaner to rain. Do not use the vacuum cleaner in moist or wet surroundings. Do not use the vacuum cleaner near flammable gasses or liquids.
3. Protect against electrical shock.
Avoid bodily contact with earthed building parts, such as radiator, water pipes and the like and also electrical appliances with their own earth connection.
4. Keep children and unauthorized persons away from the workplace.
Do not let unauthorized persons touch the vacuum cleaner or the supply cord. All unauthorized persons should be kept at a distance.
5. Put the vacuum cleaner away, or make it ready for transport after use.
Keep the vacuum cleaner in a dry place and inaccessible to children.
6. Do not use force.
Do not use force when operating the vacuum cleaner. Do not step on the hose, or the electrical cord.
7. Choose the correct tool, accessories for the task.
Do not use badly proportioned or light tools for heavy tasks. Do not use tools for anything they are not intended for.
8. Choose suitable working clothes.
9. Personal protective equipment.
Put on eye and/or ear protection, if necessary. Put on respirator in dusty environments.
10. Protect the electrical cord.
Never carry the vacuum cleaner in the electrical cord. Do not remove the plug from the socket by pulling the electrical cord. Keep the electrical cord away from heating sources, oil and sharp edges.
11. Choose a safe working position so that there will be no risk of falling in the hose and cord.
12. Keep the machine and equipment in good repair.
Keep the vacuum cleaner clean and dry and follow the instructions of the chapter about maintenance.

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13. Cut off the electricity supply when the vacuum cleaner is not in use.
Remove the plug from the socket before maintenance, repair and when the vacuum cleaner is not in use.
14. If extension cords are used out of doors, they must be approved for this.
If extension cords are used, the following guidelines must be observed:

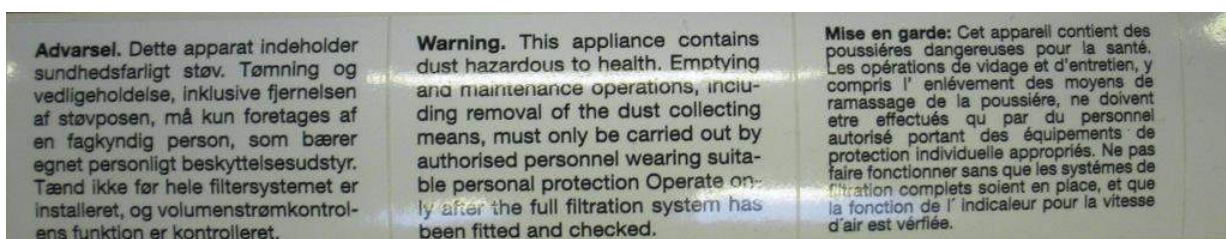
Length of cord in metres	Cross section	
	<16A	<25A
Up to 20 m	Ø1,5mm ²	Ø2,5mm ²
20-50 m	Ø2,5mm ²	Ø4,0mm ²

15. Show attention and be rested.
The vacuum cleaner must not be used, if the user is tired, sleepy or sick or under the influence of alcohol or drugs / medicine.
16. Check for damage.
Check the vacuum cleaner for damage. Check that the shields etc. have been properly fastened. Check the electrical switches, and have an authorized service mechanic replace them, if they are damaged. Do not use the vacuum cleaner, if it cannot be started and/or stopped at the switch.

RONDA® 200H / RONDA®200H-S is H-classified in accordance with the demands of EN 60335-2-69 Annex AA for collection of dust hazardous to health.

RONDA® 200H /RONDA®200H-S is furthermore in accordance with the Machinery Directive (2006/42/EC).

H	WARNING: This appliance contains dust hazardous to health. Emptying and maintenance operations, including removal of the dust collecting means, must only be carried out by authorized personnel wearing suitable personal protection. Operate only after the full filtration system has been fitted and checked.	H
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3 labels are enclosed. One in Danish, one in English and one in French.

The standard language of the label on the machine is German. Therefore the label with the language of the country in question is to be placed on the H-label, with the text as shown above.

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Technical Data

Make sure that the voltage and fuse of the power supply correspond with the data of the data plate of the machine and the data of this manual.

RONDA® 200H / RONDA®200H-S is connected to 230 V power supply.

The survey below shows the technical data of RONDA® 200H & RONDA® 200H-S

A169	EU	CH	DK	
Voltage	230	230	230	Volt
Suction motor	1100	1100	1100	Watt
Power outlet, max.	2000	1200	1800	Watt
Vacuum	2550	2550	2550	mmWc
	25	25	25	kPa
Air volume, max.	54	54	54	l/sec.
	194	194	194	m ³ /h
*Suction power, max. ((P2)based on IEC 60312)	345	345	345	W
Filter area, multi-tube filter	0.8	0.8	0.8	m ²
Filter area, HEPA	1.1	1.1	1.1	m ²
Collection capacity (bag / container)	14/16	14/16	14/16	l
Height	795	795	795	mm
Length	430	430	430	mm
Width	450	450	450	mm
Weight without accessories	15	15	15	kg
Container coupling	Ø 50	Ø 50	Ø 50	mm
Length of supply cable	8	8	8	m
Noise				
Based on ISO 11201				
Machine pressure level : uncertainty K _{pA} =3dB (Measured only as machine)	<70	<70	<70	dB(A)
Based on EN 60704-1:2010 and EN60704-2-1:2001				
Max. Sound Power Level L _{WA} = uncertainty K _{WA} =3dB (Measured with hose, pipes and floor accessory)	<85	<85	<85	dB

*Data of the machine with 4 metres ø 38 hose



In connection with extraction from tools (dust extractor) it is necessary to ensure a sufficient rate of air renewal (L) in the room.
According to the instructions from The Danish Working Environment Service, recirculation of extracted air is forbidden.
Please refer to national regulations.

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Standard Accessories

RONDA® 200H / RONDA®200H-S is delivered with a complete set of accessories including tubes, hose and all the necessary nozzles.



You can reorder the accessories using the following product numbers:

1. 40 mm professional's set	80.33.4037
2. Plastic hose, 4 m	84.54.3809
3. Crevice nozzle.....	80.34.4000
4. Round brush.....	80.34.4001
5. Floor nozzle B-370	84.38.3620
6. Tubes, two straight ones and one curved	80.52.2160
7. Pyramid shaped cuff (with hose and coupling).....	81.56.3810

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Applications



RONDA® 200H / RONDA®200H-S is a vacuum cleaner in accordance with DS/EN 60335-2-2 and CEI/IEC 60335-2-69 Annex AA class H and may only be used as such.

RONDA® 200H / RONDA®200H-S may be used for collection of dust hazardous to health according to CEI/IEC 60335-2-69 Annex AA dust class H.

RONDA® 200H / RONDA®200H-S may **not** be used for collection of fluids or moist dust.

RONDA® 200H / RONDA®200H-S may **not** be used for collection of flammable, explosive, poisonous or other dust, fluids or gasses hazardous to health.

RONDA® 200H / RONDA®200H-S may only be used in dry environments and may not be used or stored outdoors or indoors under wet conditions.

The capacity of a vacuum cleaner to suck vacuum depends on the air. Theoretical the suction capacity will fall when the vacuum cleaner is used at altitudes. The suction capacity of the vacuum cleaner will be constant from 0 to approx. 800 m above sea level. From 800 to 2000 m the suction capacity will theoretically fall to approx. 75%. It is not recommended to use the vacuum cleaner at more than 2000 m above sea level, as the cooling and the suction capacity will be considerably reduced.

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Description of the Main Parts

RONDA® 200H / RONDA®200H-S is designed as a handy and compact industrial vacuum cleaner for collection of fine dust and dust hazardous to health.

Motor Top with Suction Motor and HEPA Filter



The motor top is equipped with suction motor, an integrated handle, switches for the suction motor and the built-in automatic start-/stop.

The powerful suction motor of RONDA® 200H / RONDA® 200H-S is placed in the motor top.



The motor top is fitted with a HEPA filter in dust class "H".

The filter holds back the fine and smallest dust particles, which have not been held back by the multi-tube filter. The filter holds back the particles larger than 0.3 μm (0.0003 mm). The surface of the filter is 1.1 m² and is protected by a metal grating.

Motor Top with Alarm and Pressure Relief Valve



The motor top is equipped with a pressure relief valve and will beep for alarm when the air flow is too low (<20 m/sec).

The motor top can be equipped with a separate exhaust coupling. I.e. the air will be exhausted through a hose coupling in the motor top. It will then be necessary to use a hose.

Electrical hand tools can be connected directly to the RONDA® 200H / RONDA®200H-S.

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Collection Container with Multi-Tube Filter

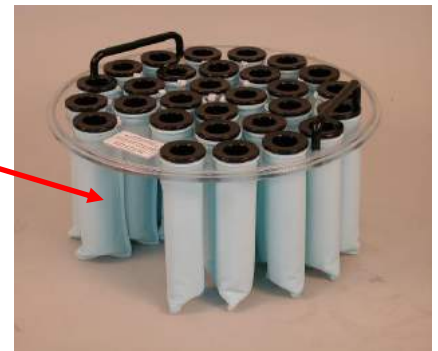


The large multi-tube filter of the RONDA® 200H / RONDA®200H-S is mounted directly in the collection container.

The surface of the filter of 8000 cm² is coated with Teflon. The Teflon coating repels the dust, which will in this way not stick so easily to the filter material.

The multi-tube filter has a self-cleaning effect during operation.

The filter consists of a large number of tubes mounted on springs. During operation the tubes vibrate a little, and a part of the dust sucked on to the surface of the filter will fall down into the collection container.



Collection Container and Filter Bag

The collection container is equipped with 5 swivel wheels.

The collection container contains the filter bag where the material is collected, which facilitates the emptying and disposal of the material collected.



The material can also be collected directly into the collection container. Furthermore you can use a filter bag for dust-free emptying.

The filter bag cannot be filled up when very fine dust is collected.

When collecting dust hazardous to health you must pay attention to the requirements as to disposal of the collected material. (Closed container; plastic bag or container). The demands as to packing of the material collected may vary.

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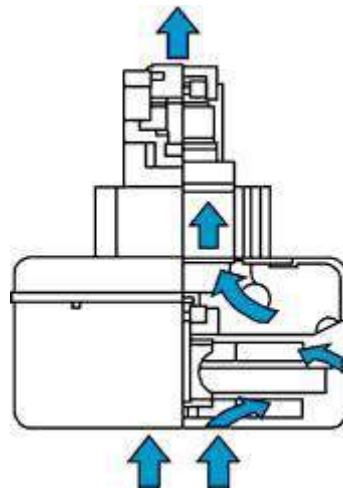
Mode of Operation

When the suction motor of the machine is on, the air will be led through the machine and will collect the dust particles near the nozzle mounted.

The dust particles will be sucked through the hose into the collection container, where the majority of the particles will be held back in the filter bag and/or the multi-tube filter.

The air flow and the remaining particles, which have not fallen to the bottom of the collection container or have been held back in the filter bag or the multi-tube filter, will be carried forward to the HEPA filter.

From the HEPA filter the purified air flow will continue through the suction pump (blow through) and will be led out of the vacuum cleaner through the exhaust and noise reduction filters.



IMPORTANT! As the motor leads the cooling air through the machine, all filters **MUST** be mounted and intact.

IMPORTANT! Never cover up the motor top when the machine is in use.

IMPORTANT! Never collect warm or glowing materials.

IMPORTANT! Never extract from processes producing sparks.

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Assembling

- Check that the packing is intact and has no sign of damage from handling and transport.
- Unpack RONDA® 200H / RONDA®200H-S and check that all the parts ordered are there.



- Assemble the three parts of the tube and mount an appropriate nozzle.
- Fasten the rubber coupling of the suction hose to the tube and mount the other end of the hose in the coupling of the container of RONDA® 200H / RONDA®200H-S.
- Check that the collection container is empty and that the multi-tube filter has been correctly mounted in the collection container. Check that the filters of the machine are intact and undamaged (see the chapter "Change of Filters").
- If dust hazardous to health is to be collected you must use a collection / filter bag.
- Before the plug is connected to the electrical main supply you must make sure that the plug and the cord are undamaged. If the cord or the plug is damaged, a professional must replace the parts. Only an original cord may be mounted.
- Connect the machine to 230 V power supply with a reliable earth connection.
- Remember to place the label onto the H-label, if the language of the user is not German.
- RONDA® 200H / RONDA®200H-S is now ready for use. The collection is described in details in the following chapter.



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Collection of Dry Dust

When the machine has been correctly assembled and connected, it can be switched on and off at the red start/stop switch of the motor top. The machine has been equipped with an alarm indicating when the air flow is too low for collection. This alarm has to be checked before use. Block the intake at the end of the hose, and the machine will start beeping. Unblock, and the beeper alarm will stop.



During operation the RONDA® 200 can be driven around on the 5 swivel wheels mounted on the collection container.

The floor nozzle is perfect for collection of dust and materials from large flat surfaces. The nozzle is provided with brushes and wheels to ensure an optimal positioning of the nozzle on the flat surface.

Gradually the brushes will be worn, and the nozzle will no longer collect in the optimum way. Adjust the height of the wheels using the knob on the nozzle so that the brushes only just touch the floor.



Electrical Outlet with Automatic Start/Stop

RONDA® 200H / RONDA®200H-S is equipped with an automatic start/stop and electrical outlet. If you connect electrical hand tools directly to the power outlet of the motor top, the RONDA® 200 will automatically be switched on and off when the hand tools are switched on and off.



Therefore the suction will continue for some seconds after the hand tools has been switched off before the machine will stop.

The electrical hand tool is connected to the electrical outlet at the rear of the motor top.

RONDA® 200H / RONDA®200H-S can be used with hand tools with a power consumption of:

Country code EU 2000W
Country code CH 1200W
Country code DK 1800W

Information can be found on the data plate

1800 W corresponds to a current consumption of approx. 13A.

NOTE:

If hand tool with a power consumption of more than 1100 W is connected, the total current consumption will exceed approx. 10 A, which is often the normal fuse size.

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The automatic start/stop is activated with the black switch on the motor top. When the automatic start/stop is activated, the machine will not start when you push the red switch. The machine will not start until the hand tool connected is started.

Set the red switch on "I" to put on the vacuum cleaner.

Automatic start/stop "I" = the automatic start/stop is activated. The vacuum cleaner will start when you use the hand tool.

Automatic start/stop "O" = the automatic start/stop is not activated. The vacuum cleaner will start when you set the main switch (red) on "I".

When the automatic start/stop is activated "1" and hand tool is connected to the electrical outlet, the machine will start when the hand tool is started.



ALWAYS turn off the hand tool before you turn off the machine on the switch.

Separate extraction (RONDA 200H-S)



If the machine is equipped with a separate exhaust coupling, a hose must be used for the air exhausted.

WARNING:

If no hose is used, the air exhausted may raise dust from the floor, and there may also be a risk of dust exposure.

The hoses are available in varying lengths. It is recommended not to use hoses longer than 10 metres.

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Cleaning of the Multi-Tube Filter during Operation (as needed, or when the alarm beeps)

Block the intake / hose so that full vacuum is made in the machine.



1. Block the intake / Block the hose.
Take hold of the flap of the shock valve.
2. Pull the flap of the shock valve while the machine is blocked and running. (Do not tug the valve)
3. When the power grows bigger than the influence from the vacuum, the valve will automatically open with a "puff". Let go of the valve.

Repeat the steps 1-3 approx. 2-3 times when cleaning.

The difference in pressure / the shock effect will clean the surface of the filter, when air is drawn through the valve in order to suppress the negative pressure in the collection container and the hose, and will reject possible deposits from the multi-tube filter.

The pressure release valve will close. This method gives an effective cleaning of the multi-tube filter.

It is recommended always to leave the machine for a few minutes before emptying it, if the machine is being used without filter bag. The dust will fall to the bottom of the container, and the risk of swirling dust into the surroundings during the emptying is reduced.

NOTE: Do not "tap" on the intake as this will swirl up the dust in the container and result in blocking of the multi-tube filter. Therefore ALWAYS use the shock valve for cleaning of the multi-tube filter during operation.

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Emptying

The RONDA® 200H / RONDA®200H-S can collect the material, depending on the character of the material, directly in the collection container or in a filter bag (if collecting dust hazardous to health a filter bag must be used). If the machine has been used without filter bag immediately before the emptying, it is recommended to wait a few minutes with the emptying to allow the fine dust to fall to the bottom of the collection container.

- Loosen the four container clips attaching the motor top to the collection container and remove the motor top.
- Place the motor top on a dry and clean surface.
- Carefully lift up the multi-tube filter in the two handles.
- Carefully place the multi-tube filter on a dry, flat surface.

If no filter bag has been used, the collection container can now be emptied.

- If a filter bag has been used, the bag is removed from the container coupling.
- Close the filter bag.
- Now you can dispose of the filter bag.

REMEMBER: Disposal of dust hazardous to health must take place in accordance with the national regulations.

- Put a new filter bag in the collection container.
- Put the multi-tube filter and the motor top in place.

A filter bag must be used when collecting dust hazardous to health.

- Place the collar of the filter bag on the container coupling.
- Filter bags containing dust hazardous to health must always be closed and disposed of in accordance with the national regulations.

REMEMBER: Always empty the machine after use.

You must make sure that the dust and material collected cannot fall out of the machine during transport.

Reordering of Filter Bags

Filter Bag non-woven.....84.64.0033

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REMEMBER:

When the machine has been used without filter bag you must take the necessary precautions against dust exposure.

Has the machine been used for dust hazardous to health you MUST wear personal protection equipment (PPE) when emptying and handling the machine.

Always empty the machine after use.

Dust hazardous to health and Asbestos.

Always check up on the local/national regulations in the area where the work is performed.

Always examine how the disposal is to be packed/wrapped up.

It might be different from place to place. Usually the following is mentioned:

Close-fitting packing, Drum/vat with cover

Plastic bag min. 100 µm.

Collection of dust hazardous to health must always take place in collection bag. The collection bag must be removed from the machine and disposed of in accordance with the national regulations.

Always mark the materials and waste according to the national regulations.

If the machine has been used for asbestos, the machine must be disassembled and cleaned before it is used in a clean environment.

The machine must be emptied, cleaned and packed before transport. Mark the packing according to the national regulations.

The machine must be transported in a min. 120 µm plastic bag or other tight-fitting packing.

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Cleaning and Maintenance

The machine must always be emptied after use. If the machine is left with dust, there is a risk of self-ignition.

IMPORTANT!
The machine must not be connected to the power supply during service and cleaning.

Read the chapter about safety precautions before cleaning and maintenance.

The easiest way to clean the machine is as follows:

- The multi-tube filter is cleaned as required.
- Wipe the machine on the outside with a dry or damp cloth.

Maintenance of the Motor Top

The motor top is made of maintenance-free parts and needs therefore no daily maintenance, apart from external cleaning and check that the cords and plugs are undamaged.

The easiest way to clean the motor top is with a damp cloth. Do not aim jets of water directly at the motor top.

In order to avoid stop in operation and also to make sure that the safety of the vacuum cleaner is intact, it is recommended that the electrical parts are inspected annually by an authorized technician.

It is recommended to have an authorized service centre inspect the brushes of the suction motor after approx. 800 working hours, and if necessary, replace them. In this way the life of the suction motor is prolonged. If the brushes are not replaced before being completely worn out, the motor may seize up, and this may require a replacement of the motor.

Check / maintenance of the machine

Description	Before/After use	Month / year	Hours
Check / replacement of brushes			750-800
Check of HEPA filter and machine		yearly	
Emptying and cleaning	After use (as required)		
Check of filters and machine, generally	Before use		
Check of cord, plugs and outlet for tools	Before use		
Check of alarm (beeper)	Before use		

Reordering of filters and service parts

Brushes	81.73.176B
Multi-tube filter	84.67.1111
HEPA filter	84.67.5006
Collection bags	84.64.0033

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Change of Filters

In General

When replacing the filters, the necessary precautions to protect the environment and the respiratory passages of the operator must be taken. The nature and scope of these precautions must be based upon the type of dust or sludge being on the surface of the filters. Before checking or replacing the filters, you must clean the multi-tube filter as previously described, and you must empty the machine. The filters are to be handled in a way not causing any danger, and the safety equipment must be appropriate for the job.

Check and Replacement of the Multi-Tube Filter (Item No. 84.67.1111)

The multi-tube filter is made of a robust filter material and has a very long life. However, the filter will gradually be worn by the many large and small particles that are held back. Therefore it is necessary regularly to check if the filter is undamaged and intact. If the filter material is not intact, the multi-tube filter cannot hold back the dust particles, which will penetrate the filter and be caught by the HEPA filter. The HEPA filter is intended for very fine dust and will rapidly be blocked, if the multi-tube filter is damaged.

- Loosen the container clips of the motor top and remove the motor top.
- Place the motor top on a dry, clean and flat surface.
- Check the top surface of the multi-tube filter for dust particles. If you can see dust particles there, it is a sign of a damaged and worn multi-tube filter.



A damaged or worn multi-tube filter must be replaced.

A replacement of the multi-tube filter should also include a replacement of the HEPA filter.

Replacement of the HEPA Filter (Item No. 84.67.5006)



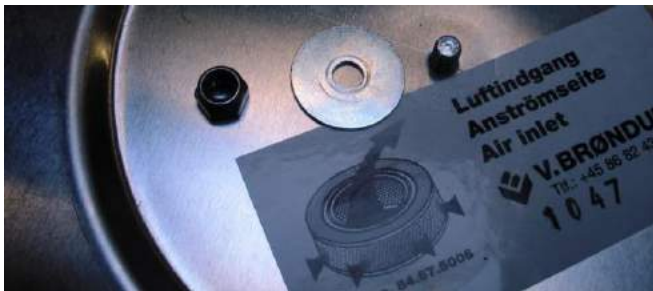
- Loosen the four container clips of the motor top and remove the motor top. Place the motor top so that the filter is easily accessible.

In order to ensure a dust-free emptying when the HEPA filter is replaced, the following procedure must be followed:

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Remove the nut and washer fastening the HEPA filter. Use a size 10 ring spanner.



BE CAREFUL not to throw away the washer and nut. These are to be used again.



Pull a plastic bag (100 µm or the like) over the filter.

Pull the filter free of the bolt.
Do not TUG or twist the filter as this may damage the bolt.

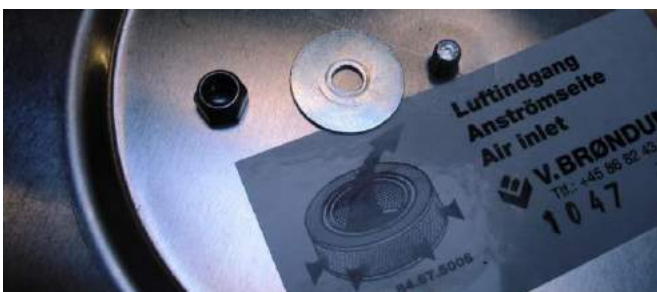
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Close the bag with a cable tie.
Always dispose of the filter in accordance with the national regulations for the material collected.



Check the surfaces before the filter is mounted.
Then mount the filter.



Mount the washer and the nut.
Tighten with approx. 25nM.



Disposal of Used Filters

When you dispose of the used filters you must make sure that this is done according to the national regulations.

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Troubleshooting

If the machine does not collect the material in a satisfactory way (alarm beeps):

- The suction hose, tube or nozzle may be blocked.
Stop the machine, and remove the blocking.
- The collection container or the filter bag may be filled to overflowing.
Stop the machine and empty the container. See the chapter about emptying.
- A leak might have arisen in connection with the mounting of the motor top.
Start the machine and block the suction hose. Normally you can hear a possible leak. Loosen the container clips of the motor top, place the motor top correctly and lock the clips again.
- The filter bag may be blocked.
If you collect very fine dust, the filter bag may block before it is completely full. Replace the filter bag.
- The multi-tube filter may be blocked.
Clean the multi-tube filter as described in the chapter about cleaning of filter during operation.
- The HEPA filter may be blocked.
Replace the filter as described in the chapter about change of filters.

If the machine does not start

- The fuses of the control circuit may have melted.
- The hand tool starts but the machine does not start → The fuse may have melted

The replacement must be made by V. BRØNDUM A/S, an authorized V. BRØNDUM A/S dealer or a similarly qualified person in order to avoid hazards.



DECLARATION OF CONFORMITY

V. BRØNDUM A/S
Sadolinsvej 14-16
DK – 8600 Silkeborg

V. BRØNDUM A/S

hereby declares that the following product:

Electrically operated industrial vacuum cleaner,
classified for dust class “H” .

Model:
RONDA® 200H / RONDA® 200H-S

has been designed and produced in conformity with the basic requirements and other relevant conditions of the following directives:

The Machinery Directive (Directive 2006/42/EF)

The compliance has been achieved by use of the following standards:

EN 60 335-2-69

Verified compliance with standard and directive by: SLG.

Dust class H verified by technical dust test by: SLG

Silkeborg, June 2011

Kennet Raudszus
Product & Quality Manager

User Manual

Service and Repair

Service and repair are provided free of charge within the guarantee period (invoice must be presented) provided that:

- The defect has been caused by a construction defect or defective materials. (Normal wear and tear, misuse or insufficient maintenance is not covered by the guarantee).
- No repair attempts have been made by others than V. BRØNDUM A/S, or service centres approved by V. BRØNDUM A/S to carry out guarantee repairs.

Service free of charge includes replacement of defect parts and the cost for related working hours.

The machine is handed in via the V. BRØNDUM A/S dealers or is sent directly, carriage paid, to:

V. BRØNDUM A/S
Sadolinsvej 14-16
DK-8600 Silkeborg

Tlf. (+45) 8682 4366
Fax (+45) 8680 3363
E-mail v@broendum.com

Subject to changes.