USER MANUAL

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V. BRØNDUM A/S

A0800193



RONDA® 200H POWER

RONDA® 200H-S POWER

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

IMPORTANT!
Read this manual before you start using the vacuum cleaner.

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RONDA® 200H POWER and 200H-S POWER

Industrial Vacuum Cleaner for Fine Dust and Dust Hazardous to Health

General Description

Congratulations on your new RONDA® 200H POWER / RONDA®200H-S POWER 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 POWER / RONDA® 200H-S POWER is an industrial vacuum cleaner developed for the collection of very fine and health hazardous dust. RONDA® 200H POWER / RONDA® 200H-S POWER 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
- Service alarm signals when motor needs service

RONDA® 200H-S POWER is mounted with separate exhaust coupling. It is relatively easy to mount separate exhaust coupling on RONDA® 200H POWER, 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 POWER without exhaust coupling.

Safety

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.

- **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.**

Please read the Safety Instructions which were delivered with the machine together with this user manual.

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.

Guidelines Regarding the 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.

Technical Data

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

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

The survey below shows the technical data of RONDA® 200H POWER and 200H-S POWER.

	EU	CH	DK	
Voltage	230	230	230	Volt
Suction motor	1450	1450	1450	Watt
Power outlet, max.	2000	850	1500	Watt
Vacuum	3000	3000	3000	mmWc
	29,5	29,5	29,5	kPa
Air volume, max.	54	54	54	l/s
	194	194	194	m^3/h
Air volume, max. measured*	48 / 172,8	48 / 172,8	48 / 172,8	l/s / m^3/h
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				
Machine pressure level : uncertainty K_{pA}=3dB (Measured only as machine)	<70	<70	<70	dB(A)
Max. Sound Power Level L_{WA}= uncertainty K_{WA}=3dB (Measured with hose, pipes and floor accessory)	<85	<85	<85	dB
Vibration	≤ 2,5	≤ 2,5	≤ 2,5	m/s2

*Data of the machine with 4 metres standard 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.

Standard Accessories

RONDA® 200H POWER / RONDA® 200H-S POWER 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. Tool adapter withair adjustment, incl. 2 rubber cuffs 83.89.4950

Applications

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

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

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

RONDA® 200H POWER / RONDA® 200H-S POWER 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.

Description of the Main Parts

RONDA® 200H POWER / RONDA®200H-S POWER 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 m^2.

Motor Top with Alarm and Shock Valve



The motor top is equipped with a shock 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 POWER / RONDA®200H-S POWER.

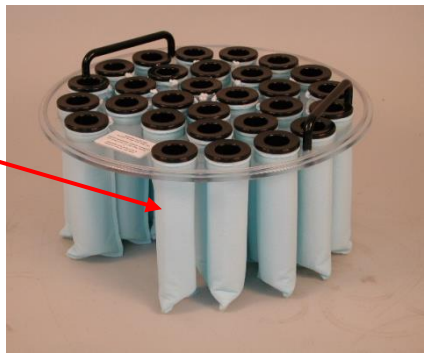
Collection Container with Multi-Tube Filter



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

The surface of the filter of 0,8 m^2 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 Collection Bag

The collection container is equipped with 5 swivel wheels.

Inside the collection container the collection bag is placed. The material is collected into the collection bag, which facilitates the emptying and disposal of the vacuumed material. When vacuuming very fine dust, it is not possible to fill the collection bag entirely.

Use a collection bag for collection of the vacuumed material. When collecting health-hazardous dust, you must pay attention to the requirements as to disposal of the collected material (i.e. closed collection system such as plastic bag or container). The demands as to packing of the collected material may vary.

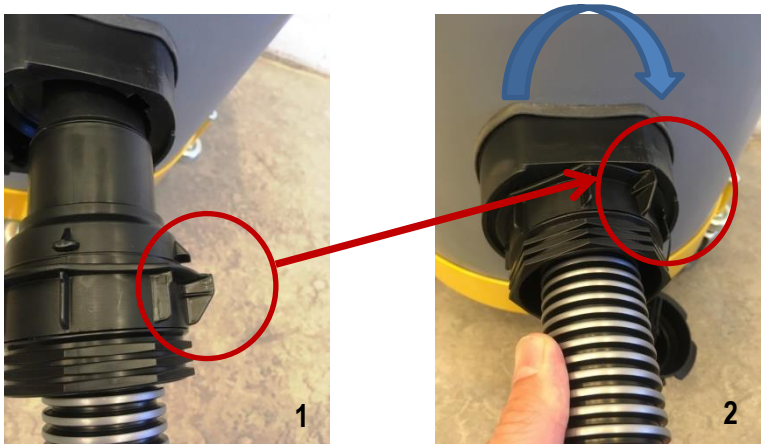


Place the collection bag in the holder **before** the hose coupling is mounted.

Push the flange of the bag into the slit of the holder.

The hose is mounted <u>after</u> the collection bag has been mounted

Insert the coupling in the machine and turn to the right to lock.
When the coupling is mounted, the small pointer of the coupling (see picture 1) must point obliquely to the right (see picture 2).



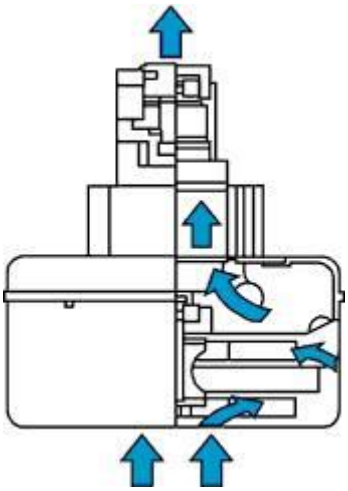
IMPORTANT:
When changing the collection bag, the hose must be removed <u>before</u> turning off the machine. So do not turn off the vacuum cleaner, until the hose has been removed.



The container is equipped with a plug which is to be used during transport and whenever the machine is not operating.

The hose is mounted after the collection bag has been mounted.

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 collection 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 collection 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.**

Assembling



- Check that the packing is intact and has no sign of damage from handling and transport.
- Unpack RONDA® 200H POWER / RONDA®200H-S POWER 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 POWER / RONDA®200H-S POWER.
- 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 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 POWER / RONDA®200H-S POWER is now ready for use. The collection is described in details in the following chapter.

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® 200H POWER / RONDA® 200H-S POWER 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 POWER / RONDA®200H-S POWER 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.



The automatic start/stop is programmed for delayed motor stop. 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 POWER / RONDA®200H-S POWER can be used with hand tools with a power consumption of:

Country code EU 2000W
Country code CH 850W
Country code DK 1500W

Information can be found on the data plate

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.



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 (I) 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.

Service Alarm

When the alarm sounds (5 bleeps when the vacuum cleaner is started/connected to power), it is time to take the machine to service. The motor has a certain life span and must be changed. The alarm indicates that it is necessary to plan service and exchange of the motor. If the alarm is ignored and the motor is then completely worn out, it can lead to the control circuit (PCB) being compromised, which must then also be replaced (see also the sections Cleaning and Maintenance and Troubleshooting).

Separate Exhaust (RONDA® 200H-S POWER)

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 exhaust air 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.

Cleaning 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 relief 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 collection 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.

Emptying

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

- 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 by the two handles.
- Carefully place the multi-tube filter on a dry, flat surface.

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

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

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

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

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

- Place the collar of the collection bag on the container coupling.
- Collection 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 Collection Bags

Collection bag non-woven……84.64.0053

REMEMBER:
When the machine has been used without collection 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.

Asbestos and Health-Hazardous Dust

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.

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 suction motor after approx. 700 working hours (a service alarm will signal with 5 bleeps when the vacuum cleaner is connected to power). If the motor is not replaced before being completely worn out, it may break down, and replacement of both motor and control circuit (PCB) is then required.

Check / maintenance of the machine

Description	Before/After use	Month / year	Hours
Check / replacement of motor			700
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 filters and service parts:

Multi-tube filter	84.67.1111
HEPA filter	84.67.5036
Collection bags	84.64.0053

Changing 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. 84.67.5036)



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 replacing the HEPA filter, the following procedure must be followed:



How to remove the HEPA filter:

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





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





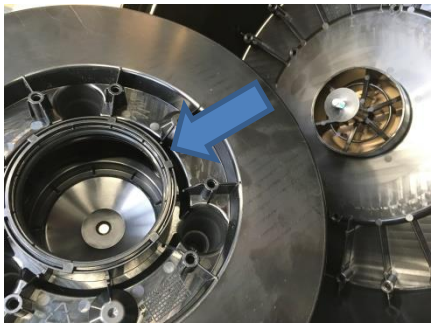
Pull a plastic bag (100 µm or the like) over the filter.

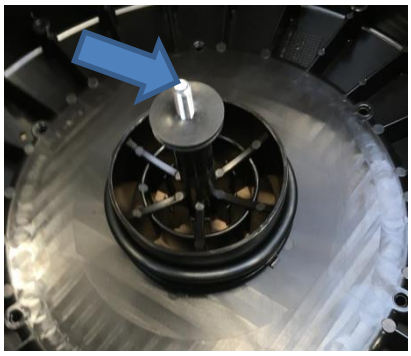
Pull off the filter from the bracket so the O-ring and the base are released.

Remove the O-ring and base. Both are to be disposed of with the used filter.

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







How to mount the new HEPA filter:

- Apply some moisture or lubricant to the O-ring before mounting.
- Push the filter down over the bracket until it is on the adapter ring, in one workflow.
- Do not pull the filter, as this will release the O-ring and locking ring from their position.
- Fit seal, washer, and end with locking 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.

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 collection 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 collection bag may be blocked.
  If you collect very fine dust, the collection bag may block before it is completely full.
  Replace the collection 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.

5 alarm signals (bleeps) when starting the machine/connecting it to power:

- Service alarm for motor wear
  Bring the machine to service.

  The replacement of motor and control circuit (PCB) 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
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 POWER

Variant: -S og -I
(Version 2020)

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

Machine Directive (Directive 2006/42/EU)

EMC-Directive (Directive 2014/30/EU)

ROHS-Directive (Directive 2011/65/EU - COMMISSION DELEGATED DIRECTIVE (EU) 2015/863 31 March 2015)

The compliance has been achieved by use of the following standards:
EN 60335-1
EN 60 335-2-2
EN 60 335-2-69

Verified compliance with standard and directive by: SLG.
Dust class H verified by technical dust test by: SLG

Silkeborg, December 2019



Kennet Vallø
Product- & Quality Manager

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
DK-8600 Silkeborg

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

Subject to changes.