Bona® Portable DCS®

Manual and safety instructions

Bona®

TECHNICAL DATA

Motor type:	1-phase, 1800 W
Voltage (+/- 10%):	115 VAC
Frequency:	60 Hz
Power:	2,4 US hp
Fuses:	15 slow-blow
Max Flow:	66 L/sec/140cfm
Max under-pressure:	330mbars/132 inch water
Hose:	10mX∅ 38mm /33 ft X ∅ 1,5 in
Coarse filter:	Folded 1m^2 / 10 sq. ft
HEPA filter:	H13 1,5m^2 / 16 sq. ft
Noise level:	80 dB(A)
Bag hose system:	Longopac® 20 m/65ft
Length/Wide/Height:	78X60x115cm / 31X23X45,5 in
Weight:	43kg/95lb
Dust capacity:	70l / 18,5 gallon
Hour meter:	99 999 hrs

We congratulate you on your choice of a new Bona® Portable DCS®.

Read the complete user instructions carefully before starting to use the machine. If anything is not clear, you can obtain help from your dealer or from Bona. You can also visit our web site, www.bona.com , where you can find manuals, schematics and spare parts.

Important!

This Operator's Manual only concerns Bona® Portable DCS®

Bona® Portable DCS® may only be used for handling dry non explosive, materials.

Bona® Portable DCS® is designed to handle wood dust when sanding floors and vacuuming with Bona's equipment. Bona AB disclaims all responsibility if the Bona® Portable DCS® is used for other purposes or is handled differently than described in this Operator's Manual.

Pay special attention to the Safety Instructions.

Read the Operator's Manual before starting to use Bona® Portable DCS®.

Spare parts used on the Bona® Portable DCS® must be approved by Bona AB.

Unpacking

When unpacking the machine, please check that following items are included:

- Suction hose
- Cleaning equipment kit
- Assembled Longopac
- Extra Longopac
- Operators Manual

If anything is missing of the above items, contact your dealer right away.

DANGER means: Severe bodily injury or death can occur to you or other personnel if the ***DANGER*** STATEMENTS FOUND ON THIS MACHINE OR IN THIS Owner's Manual are ignored or are not adhered to. Read this entire manual before operating this machine.

WARNING means: Injury can occur to you or to other personnel if the ***WARNING*** statements found on your machine or in this Owner's Manual are ignored or are not adhered to. Damage to the machine or to other property may occur as well, if the ***WARNING*** is ignored.

A mixture of dust and air can under unfortunate circumstances be explosive. Sanding/Vacuuming wood floors can create an environment that can be explosive. The following safety procedures ***must*** be adhered to.

SAFETY INSTRUCTIONS

Handling

- Cables damaged through crushing or cracking can be dangerous if used and should be replaced immediately. Risk of personal injury.

- Do not connect the machine to an unearthed socket. Risk of personal injury.

- Make sure that the foundation is solid so the Bona DCS II doesn't tip over. Risk of personal injury and property damage.

- Risk of pinch injuries when handling the toggle fasteners.

- Do not vacuum burning or smoldering particles as the machine can catch fire. If a fire should break out, pull out the plug from the socket and extinguish using the available fire fighting equipment.

- The machine must not be used in environments where explosive gas can occur. Large risk for explosions.

- Do not look into the suction pipe or suction hose if blocked. Large risk of injury to the eyes.

- Do not point the suction hose towards body parts when the machine is running. Avoid placing your hand or other parts of the body against the suction inlet if the suction hose is not fitted. Risk of personal injury.

- Do not vacuum water, oil or any other liquids.

- While lifting the machine, make sure that the dust container is emptied and that no person is under the lifted machine. Risk of person injury and property damage.

Service

- Remove the plug from the wall socket when carrying out maintenance work. Reassemble all guards on the motor and fan components once servicing is complete. Risk for person injury.

- Health impairing dust can be spread when cleaning the coarse filter and during filter and bag replacement. Accordingly, the user should wear tight fitting clothing, protective glasses, protective gloves and a breathing mask conforming to protection class P2.

- Do not make holes in any filter. Risk of dust dispersion.

Handling

Connect the power cable to the right wall outlet. Assemble the hose to the sanding machine or to the suction pipe together with the floor nozzle. Start the Bona® Portable DCS® by using the push switch.

The dust extractor separates material in three stages:

- The first stage consists of a cyclone separator, where all coarse material is separated before reaching a filter.
- The second stage consists of a folded coarse filter that filters out the fine visible dust.
- The third stage, final filtering, uses a HEPA13 filter, which separates the health-impairing dust which is not visible to the eye.

Coarse filter characteristics

The coarse filter is strong and very stable. Low pressure drop with extremely good separation.

In order to attain maximum capacity from the dust extractor it is important that the filter is cleaned, look at “Cleaning the coarse filter”, or replaced as soon as the suction effect starts to drop.

HEPA13 filters operating characteristics

The Hepa13 filter is dimensioned for fine, dry dust and should be preceded by a pre-filter

Caution
- HEPA13 filter cannot be cleaned and must be replaced when spent.

Caution
- The operating stability of the HEPA13 filter drop and can be completely destroyed if exposed to water.

Motor and vacuum pump

The dust extractor is equipped with a 1 phase motor with a direct mounted vacuum pump.
The motor is cooled by a separate cooling fan

Collection

Particles and dust falls down into a transparent dust container under the cyclone separator.
Inside the dust container is a Longopac bag hose system which should be replaced when full.
The system consists of a 65 ft folded plastic hose, which gives about 20 dust free bag changes.

 **1. Seal the bag with two cable ties.**	 **2. Cut between the cable ties.**	 **3. Pull out a new bag from the Longopac.**

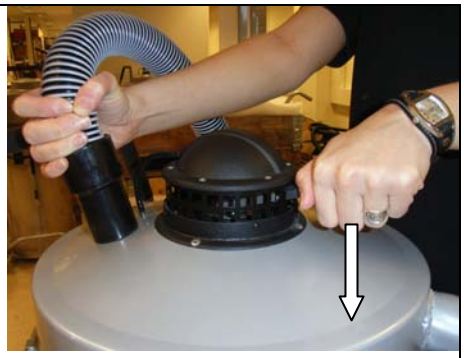
Replacing the Longopac magazine

Start of with locking the wheel brakes.

 **1. Cut the bag open**	 **2. Loosen the straps**	 **3. Pull out the magazine**	 **4. Remove the gasket and discard the Longopac rest**
 **5. Place a new Longopac magazine and check the opening according to the picture**	 **6. Cut off the sealers**	 **7. Fold the inner Longopac over the edge**	 **8. Mount the gasket**
 **9. Turn the magazine over and pull out a new bag**	 **10. Put the magazine in place**	 **11. Attach the straps**	 **12. Seal the bag with a sealer and cut off any rest**

Cleaning the coarse filter through cleaning valve

In order to get maximum suction capacity is the dust extractor equipped with a cleaning valve which effortlessly cleans the coarse filter.

		
1. Start the machine	**2. Block the suction hose by the work place. Wait about 7-10 sec. while the machine builds up a vacuum.**	**3. Press the filter cleaning valve hard**
Repeat the whole process 3 times.		

N.B. Clean the filter every time you start and before you stop the machine.

Replacing the coarse filter

		
1. Open the cyclone lid	**2. Remove the lid**	**3. Replace the coarse filter**

Replacing the HEPA13 filter

			
1. Remove lid	**2. Loosen the nuts**	**3. Remove lid**	**4. Replace the HEPA13 filter**

Warning

Health impairing dust can be spread when cleaning the coarse filter and during filter and bag replacement. Accordingly, the user should wear tight fitting clothing, protective glasses, protective gloves and a breathing mask conforming to protection class P2.

CONSUMABLES

The following list includes the most common consumables that the user can order from Bona AB or its distributors.

Art. no.	Quantity	Designation
ASO539001	1	Longopac® 20m / 65ft, 4 magazine/box
ASO539032	1	Folded coarse filter 1m^2 / 10 sq. ft
ASO539033	1	HEPA13 filter 1,5m^2 / 16 sq. ft
ASO539035	1	Suction hose 38mm / 1,5in antistatic b/w, 10m / 33ft
ASO539031	1	3-piece suction pipe with floor nozzle and crevice tool
ASO539016	1	Rubber sleeve 38mm / 1,5in antistatic black, non-marking
ASO539050	1	Clamp 45-50mm
ASO539060	1	Clamp 60mm

To order spare parts, see schematics with article list,
This is available at: http://spareparts.bona.com/

Trouble shooting

The machine is constructed and adjusted to a demanding environment and task, but the user may notice that the machine contains precision made components which should be protected against hard blows and jolts. Filter, seals, fasteners and connections are thoroughly adjusted and chosen for the operators working environment. That is why it is of great importance that the operator and service personnel treat the machine with insight and knowledge in order for the machine to work perfectly for its purpose.

Problem	Cause/Fault	Action
The motor is not running	No power Broken cable The switch is broken	Connect to the wall socket Change the cable Change switch
The motor stops right after start	Wrong fuse	Replace the fuse
The motor is running but there is no suction	The hose is not connected The hose is blocked	Connect the hose Suck out the blockage backwards
The motor is running but there is inadequate suction	Hole on the hose Clogged filter Worn seals	Replace the hose Clean or change filter Check/replace worn seals
The machine is leaking dust	The filter has loosen or is damaged	Check and change if necessary
Abnormal machinery sounds		Order service

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EC declaration of conformity

According to Directive 98/37/EC, Annex IIA

This to declare that the Dust Extractor Bona® Portable DCS® with article number:

- AMO530002 starting with serial number 0809AMO530163

Follows the provisions of Council Directive:

- 98/37/EG relating to machinery.
- 2006/95/EG, relating to electrical equipment designed for use within certain voltage limits.
- 2004/108/EG, relating to electromagnetic compatibility including valid amendments.

The following standards have been used for guidance when the machines were designed:

- SS-ISO 2768-1
- SS-ISO 1940-1
- SS-EN ISO 13920
- SS-EN ISO 14121-1
- SS-EN ISO 12100 -1, -2
- SS-EN 294
- SS-EN 60204-1
- SS EN 55014 -1, -2
- SS-EN 61000-3-2
- SS-EN 61000-6-2
- SS-EN ISO 8062-1, -3

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