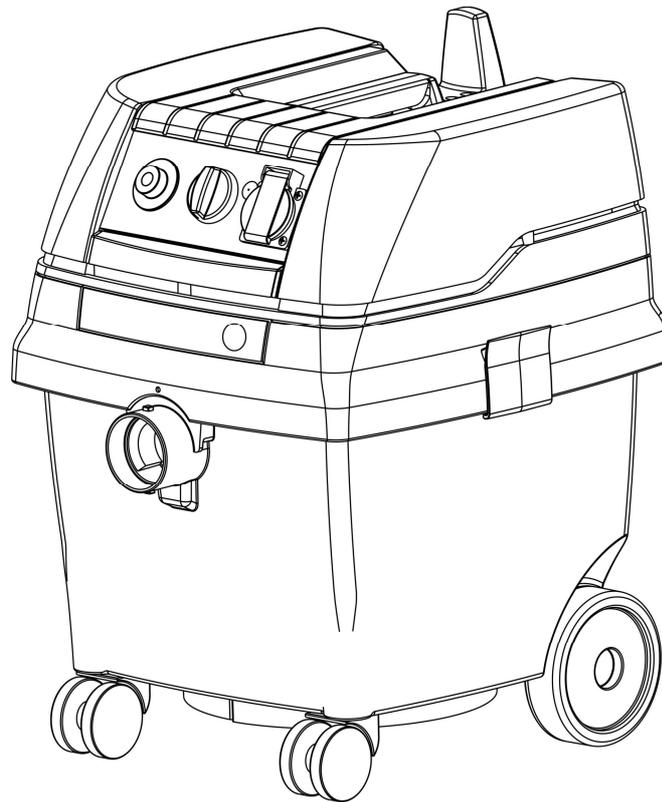




# ***BDC-1112***

*EN - Version 1.0*



[info@blastrac.eu](mailto:info@blastrac.eu)

**EC DECLARATION OF CONFORMITY**

in accordance with Appendix II sub A of Directive 98/37/EC

**BLASTRAC B.V.**

Utrechthaven 12  
NL - 3433 PN NIEUWEGEIN  
Tel: 0031 (0)30 601 88 66  
Fax: 0031 (0)30 601 83 33  
Info@Blastrac.nl  
The Netherlands

We declare under our sole responsibility that the machine as described below  
Conforms with the Health and Safety requirements of the European Directive  
for machine Safety.

In case of changes to the machine without our written authorization this declaration loses  
its validity.

**Model:** **BDC-1112** **Serial number:**

1. satisfies the conditions set out in the Machine Directive (Directive 98/37/EC); Low voltage directive (73/23/CEE, as last amended; EMC directive 89/336/CEE, as last amended)
2. satisfies the following harmonized standards:  
NEN-EN 292-1, NEN-EN 60335-1, NEN-EN 60335-2-69, NEN-EN 55014, NEN-EN 55014-2 and NEN-EN 61000-3-2

**See the "Service manual" for the valid EC declaration of conformity**



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## 1. Introduction

It is important that all persons who are working or maintaining this machine read the manual carefully and understand it fully.

Keep this manual near to the machine, so it can always be consulted.

Only authorized and trained personnel may operate this machine.

## 2. Machine description

The Blastrac dust collector BDC-1112 can be used for wet **OR** dry cleaning.

It should be **only** used for removing **non-inflammable fluids or dust**.

The BDC-11132 must **not** be used for **carcinogenic or asbestos substances** .

The machine is designed for usage in conditions according to classification **M** (see below).

Classification acc. standard EN 60335-2-69 – Annexe AA		
Type	Class	Designation
BDC-1112	M	(Medium risk ) for separating dust with an exposure limit value of over 0,1 mg/m <sup>3</sup> , depending on the volume occupied.

Dust emissions into the environment	
Class	Value of performance
L	Retains at least 99,1 % of particles measuring $\geq 3 \mu\text{m}$
M	Retains at least 99,9 % of particles measuring $\geq 3 \mu\text{m}$
H	Class H13 HEPA filter in accordance with EN1822

The BDC-1112 is available in 2 versions :

230 Volt 50/60hz version,

110 Volt 50Hz.

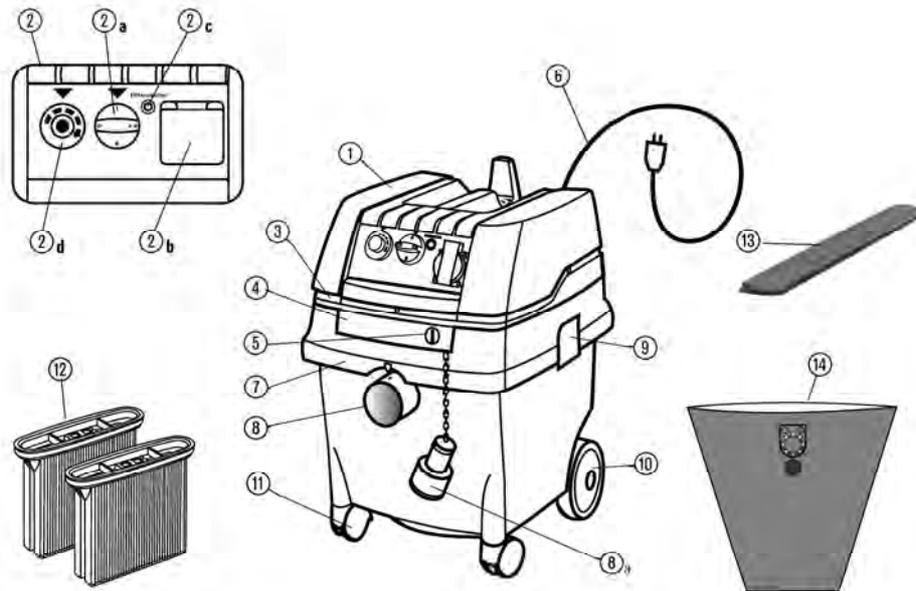
For both versions the dust collector is complete with an electronic filter cleaner. It can be used in automatic mode for a constant high suction power.

### Application

The BDC-1112 is especially designed to be used in combination with Blastrac hand grinders, hand scarifiers, hand blaster machines and some other types of Blastrac machines.

Contact Blastrac B.V. for the correct execution and combinations.

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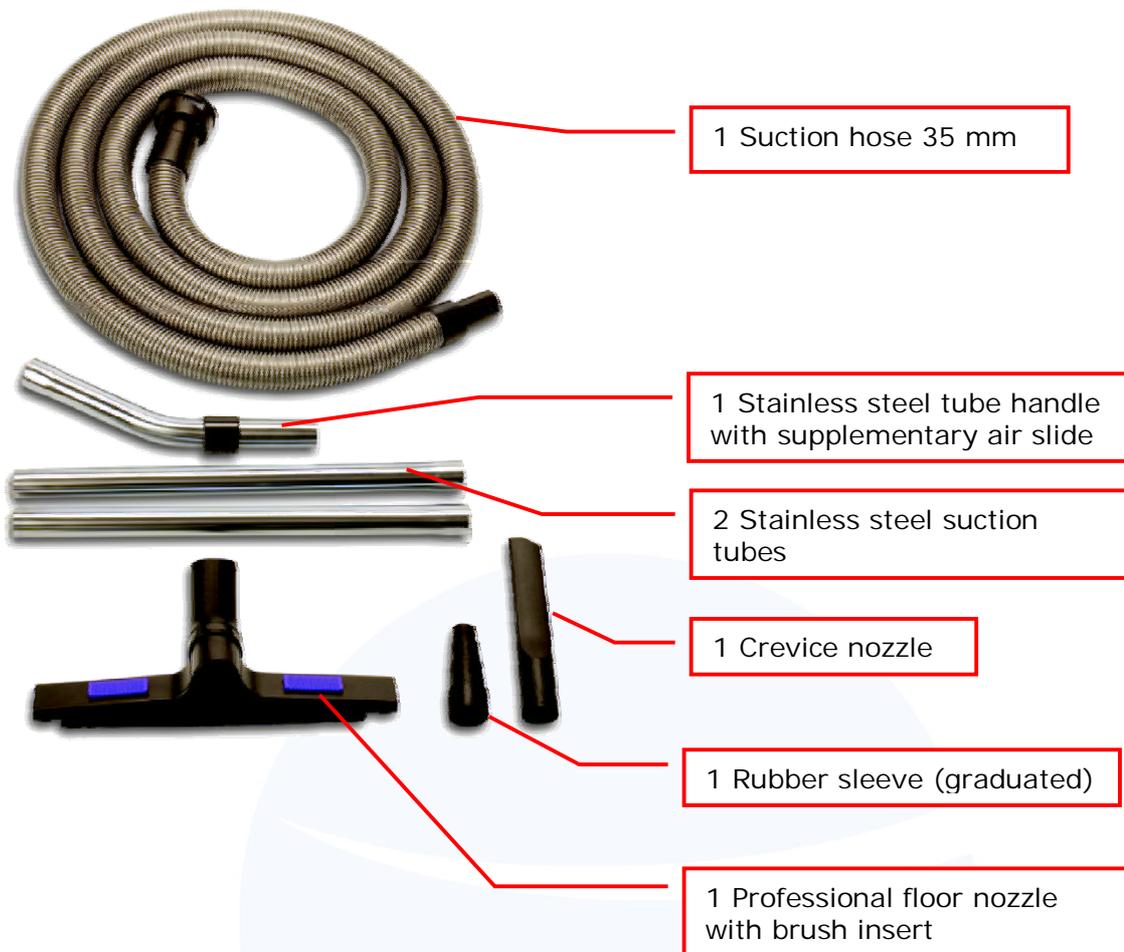
- |   |                        |
|---|------------------------|
| 1 Upper part  | 6 Power supply cable   |
| 2 Control panel   | 7 Cover                |
| 2a Turn switch on/off/Automatic/<br>manual              | 8 Suction inlet        |
| 2b Power supply for auxiliary<br>machines               | 9 Lock dustbin         |
| 2c Volume stream display                                | 10 Wheels              |
| 2d Selection switch cleaning timer<br>Cooling air inlet | 11 Castor wheels       |
| 4 Display   | 12 Filter cartridges   |
| 5 Lock filter chamber                                   | 13 Motor safety filter |
|   | 14 Plastic dust bag    |

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### Accessories

In order to clean the floor after treatment or surface preparation, as an accessory the following items are available .

- Part number E06262 - This set consists out of .



- Part number E06260 - This set consists out of a set 5 sealable plastic dust bags with a content of 25 litre.

### 3. Safety

Before operating the machine, the personnel must be familiar with the safety instructions given in this manual.

Keep this manual near to the machine, so that it may always be consulted.

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**Safety precautions – general**

- It should be **only** used for removing **non-inflammable fluids or dust**.
- Flammable solvents, fuel, oils, should not be sucked in order to prevent danger of explosions.
- The unit should not be used near flammable gasses or substances.
- The BDC-1112 must **not** be applied for **carcinogenic or asbestos substances**.
- Packing material, like plastic bags, should not be in reach of children's with regard of asphyxiation danger.
- The voltage on the identification plate must comply with the power supply.
- Do not use the unit when it is damaged.
- A fall of the dust collector may also cause an invisible defect.
- Do not use damaged extension cables.
- Do not pull the power supply cable over sharp edges, fold the cable or clamp it.
- When foam or water comes out of the machine, shut it off immediately. Empty the bin and filters.
- Acids, acetone or solvents can damage the machine.
- During a standstill of the machine, pull out the plug.
- Don't pull out the power supply cable out by the wire, but by the connector.
- Use only original Blastrac parts.
- The dust collector must be yearly overhauled by a skilled technician.

**Safety precautions – with regard to transport**

Remove the dust from the dust collector before it is transported. Close the inlet of the dust collector with the appropriate plug. The dust collector may only be lifted and tightened by the housing frames. The weight and dimensions of the dust collector are shown in Chapter 1 "Technical data".

- When transporting the dust collector do so in such a manner that damage due to the effects of the use of force or incorrect loading and unloading is avoided.
- When the dust collector is used to vacuum hazardous substances, the dust collector and all parts of it must be considered as contaminated.
- Before the dust collector is removed from the hazardous zone, take precautions to prevent dust from escaping. Always close the inlet of the dust collector with the appropriate plug

When the dust collector BDC-1112 is used in contaminated zones, it must be completely decontaminated (not just the outer casing, but also the air cooling zone, casings, electrical panels and components etc.), before being transported. Alternatively, the dust collector must be carefully closed in a sealed hermetic bag.

- To allow the user to carry out maintenance operations, the dust collector must be disassembled, cleaned and inspected as far as is reasonably possible, without causing hazards for the maintenance staff or other people.

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- The suitable precautions include decontamination before disassembling the dust collector, adequate filtered ventilation of the exhaust air from the room in which it is disassembled, cleaning of the maintenance area and suitable personal protection.
- The external parts of the class M or H dust collector must be decontaminated by cleaning and vacuuming methods, de-dusted or treated with sealant before being taken out from the hazardous zone. All parts of the dust collector must be considered as contaminated when they are removed from the hazardous zone and appropriate actions must be taken to prevent dust from dispersing.
- When maintenance or repair procedures are carried out, all the contaminated elements that cannot be properly cleaned, must be destroyed.
- These elements must be disposed of in sealed bags according to the applicable regulations and in accordance with the local laws governing the disposal of such material.
- This procedure must also be followed when the filters (main or HEPA) have to be disposed.
- Compartments that are not dust-tight must be opened with suitable tools and thoroughly cleaned.

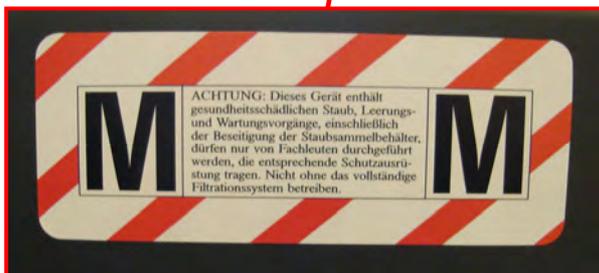
#### **Safety regulations**

- Persons who are not operating the machine must not be permitted to stay in the surrounding area of the machine.
- Don't change anything on the machine. Use always cables which are approved and safety earthed (extend) cables. The machine is always equipped with an earthed connection, do not change this and use always earthed cables with an earthed plug.
- Connect the main power supply cable to an installation with an earth leakage circuit breaker.
- Inspect and test the electrical components regularly. The electrical components have to satisfy to the requirements which apply to these components.
- Always call a skilled electrician or your distributor when you have questions about the safety of the electrical components.
- Work on electrical equipment or operating materials may only be undertaken by a skilled electrician or by trained persons under the guidance and supervision of a skilled electrician as well as in accordance with the electrical engineering regulations.
- Pull out the main plug during inspections and repair operations on the machine.
- Never operate the machine when the surface is wet.
- Never use the machine in the rain.

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**Labels**

The following labels are placed on the machine.



**Class M appliances.**

**Full text :**

“WARNING: This appliance contains dust hazardous to health. Emptying and maintenance operations, including removal of the **dust collection means**, must only be carried out by authorised personnel wearing suitable personal protection. Do not operate without the full filtration system fitted. “

**Type plate**

**Descriptions :**

- Data regarding power supply.
- IP enclosures
- Serial number
- CE marking

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## 4. Initial operation

Before using the machine it is essential to inspect the machine.

It is not permitted to use the machine if the machine safety is not according to the checkpoints below.

### Checkpoints of electrical safety

- Use only extension cables for extending the main cable that are sized and marked in accordance with the overall power consumption of the machine.
- Electrical cables must be rolled entirely off of the reels.
- Any damage to electric cables is not permitted
- Use an electrical power supply connection with earth connection.
- The main switch of the machine should be put to 'Off' before connecting to the power supply.
- The power supply connection 2b (see paragraph 2) is under active voltage, even when main switch 2a is put to 'Off'. In 'Off' position this supply can be used for extension purposes (such as light).
- Maximum amperage : the dust collector and connected tools must not exceed 16 Amps.

### Functions

The following functions are available :

#### Main-switch 2a

0 dust collector 'Off'.

1 dust collector 'On'.

A Automatic mode (dust collector is activated by the connected tool).

RA Automatic mode plus automatic filter cleaning. When the filters clog up and the volume stream gets to low, the shaker cleaner is automatically actuated.

#### Selection switch 2d and filter control 2c

This switch must be adjusted when the dust collector operates in mode A or RA (main-switch positions).

With this switch the volume stream of the dust collector is observed. When the volume stream gets too low due to clogged filters, filter control 2c lights up and an acoustic signal sounds. A manual filter cleaning can then be actuated with the main-switch 2a.

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Adjust switch 2d according to the below stated hose diameters, for a correct setting of filter control 2c:

Hose inner diameter	Selection switch 2d position
35 mm	70 M <sup>3</sup> /Hr
27 mm	40 M <sup>3</sup> /Hr
19	20 M <sup>3</sup> /Hr

## 5. Operating

During working with the stainless steel tube handle, the suction power can be adjusted with the supplementary air slide.

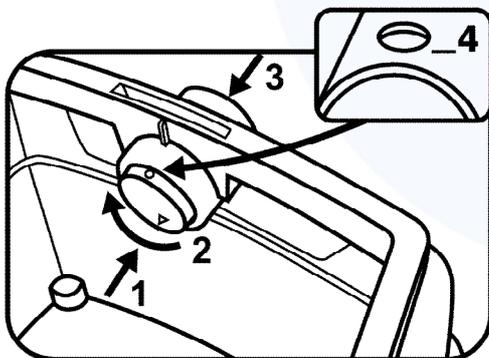
### Dry cleaning

- Only dry-clean with dry filter, machine and accessories, in order to prevent clogging of dust.

### Wet cleaning

- Work without the dust collection bag.
- A built-in sensor shuts off the motor when the dustbin is full, If the machine does not shut off automatically, reset the machine by switching it off and on again.
- Before emptying the dust-collector, take the suction hose out of the fluid.
- After switching the machine off, some fluid may run back out off the hose.
- Before starting to dry clean again, place a dry filter in the machine.
- When frequently changing between dry and wet cleaning, Blastrac B.V. recommends to purchase a second filter set, preferable a polyester – filter cartridge.

### Plastic dust bag installation & removing

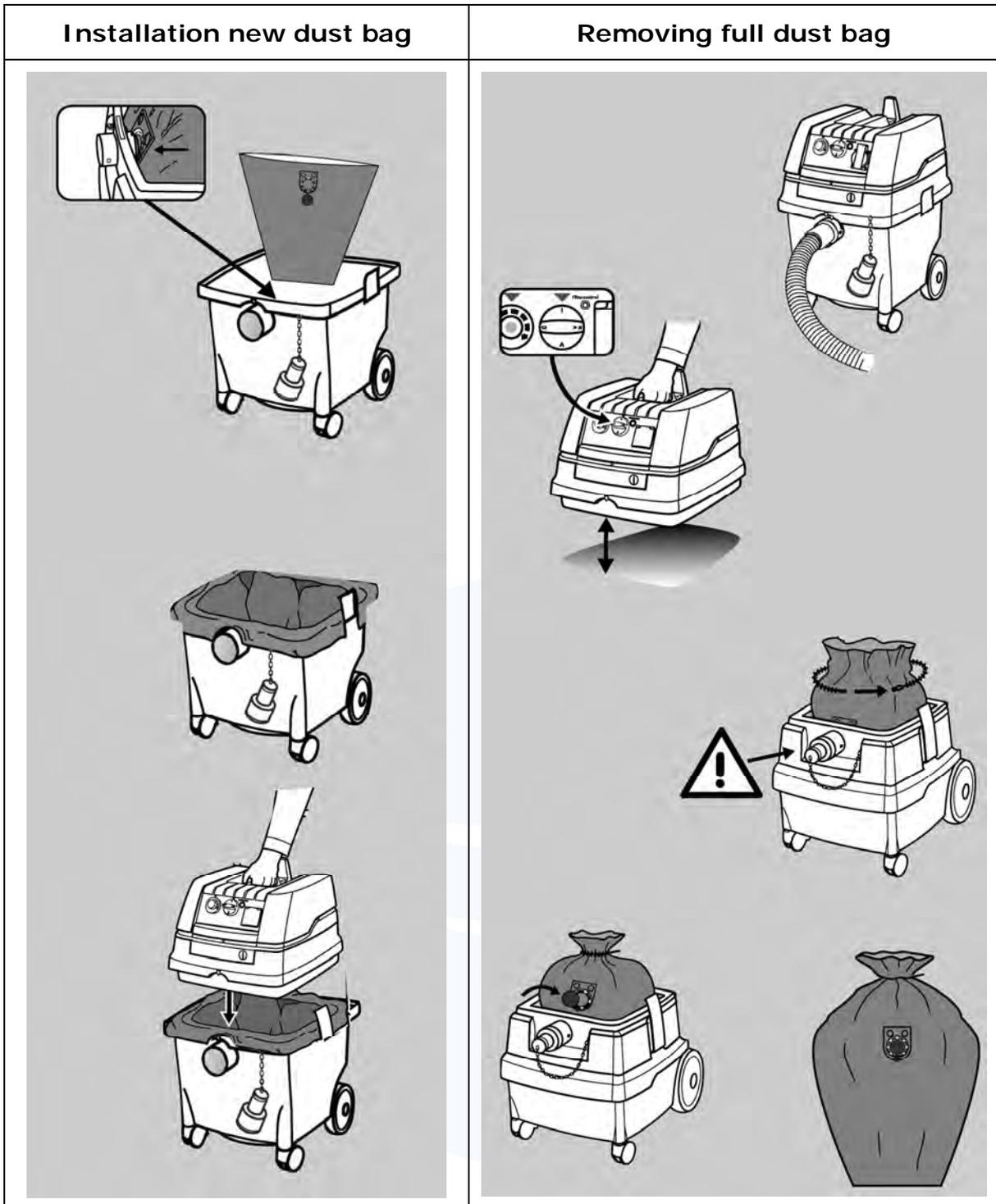


In order to install the plastic dust bags, the shown turn-switch must show marking 4 on the upper side.

When the triangle marking is in up position, push the turn switch outwards (1), rotate it 180° clockwise. Then push the nozzle back inwards (3) into the dustbin.

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Below the procedure for installation and removing the plastic dust bags.



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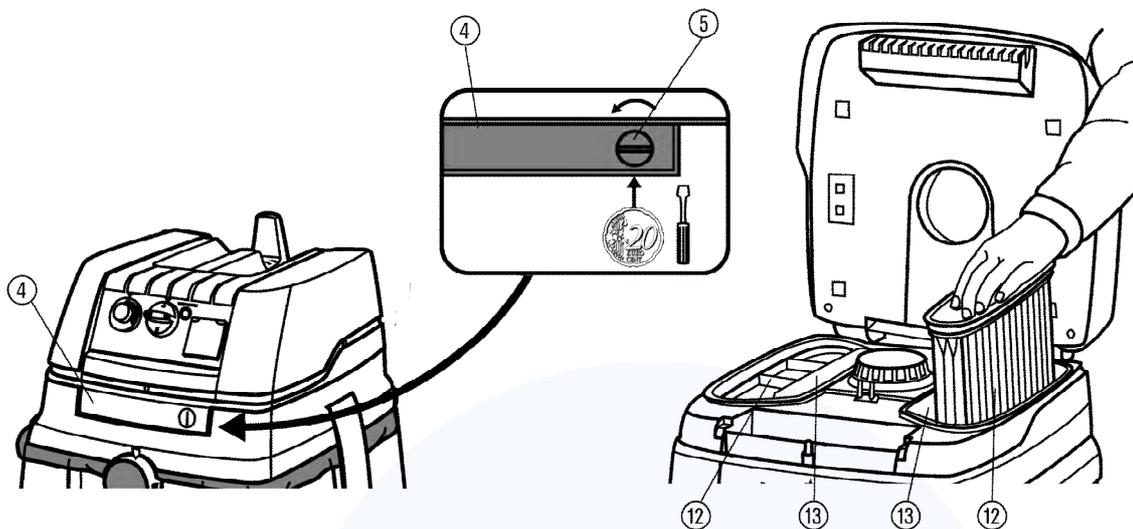
## 6. Maintenance

### Cleaning

Cover and additional parts are to be cleaned with water. Upper part (1) is to be cleaned with a moist cloth. Let the Cover and additional parts dry-up

### Filter replacement

When the suction power reduces to low, and cleaning of the filter cartridges (12) does not improve this (taking into account that there is an new dust bag is installed or the bin (7) is emptied), then it is necessary that the filter cartridges are renewed.



1. Shake clean the filter cartridge with main switch 2a.
2. With a coin or are other suitable tool the lock (5) located at lever (4) must be turned 90 ° anti-clockwise and lever (4) must be pressed backwards.
3. Hinge the cover backwards.
4. Take out filter-cartridges (12) out and seal them in a dust-tight bag. Dispose the polluted waste according to the local regulations.
5. Place new filters.
6. Close the cover and lock it by pressing it carefully downwards until it is locked.

When the engine filter (13) is polluted, this is proof of a defect filter cartridge (12).

1. Take out the filter cartridge.
2. Wash out the engine filter with streaming water.
3. Dry the filter and put it back in place again.

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**Fault diagnosis**

<b>Fault</b>	<b>Possible cause</b>	<b>Remedy</b>
Suction power too low	Filter polluted / clogged up. Paper filter full. Dustbin full. Floor nozzle, tube or hose clogged up.	Clean filter.  Replace. Empty dustbin. Clean it.
Dust collector does not run	No power supply.	Connect power supply cable. No active voltage at power supply. Check if dust collector closed. Shut off due to water sensor.
Plastic dust bag is sucked against filter	Check position of turn button in dustbin is with marking ● upwards.	

Any guarantee on the machine is expired when:

- Non original Blastrac parts have been used
- Repair work is not done by qualified Blastrac personnel
- Changes, add on's or conversions are undertaken without written permission of Blastrac BV

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## 7. Technical data

	BDC-1112
Power consumption	1.2 kW
Max. power	1,4 kW
Electrical connection / fuel	220-240V / 50 Hz
Air stream (hose end)	140 m <sup>3</sup> /hr/SE
Under pressure (hose end)	225 hPa/SE
Power supply cable	H05VV F3 x 1.5
Noise level	Up to 69.5 dB(A)



[info@blastrac.eu](mailto:info@blastrac.eu)

**HEADQUARTER**

*Blastrac BV The Netherlands  
Utrechthaven 12  
NL - 3433 PN Nieuwegein  
Tel: 0031 (0)30 601 88 66  
Fax: 0031 (0)30 601 83 33  
info@blastrac.nl*

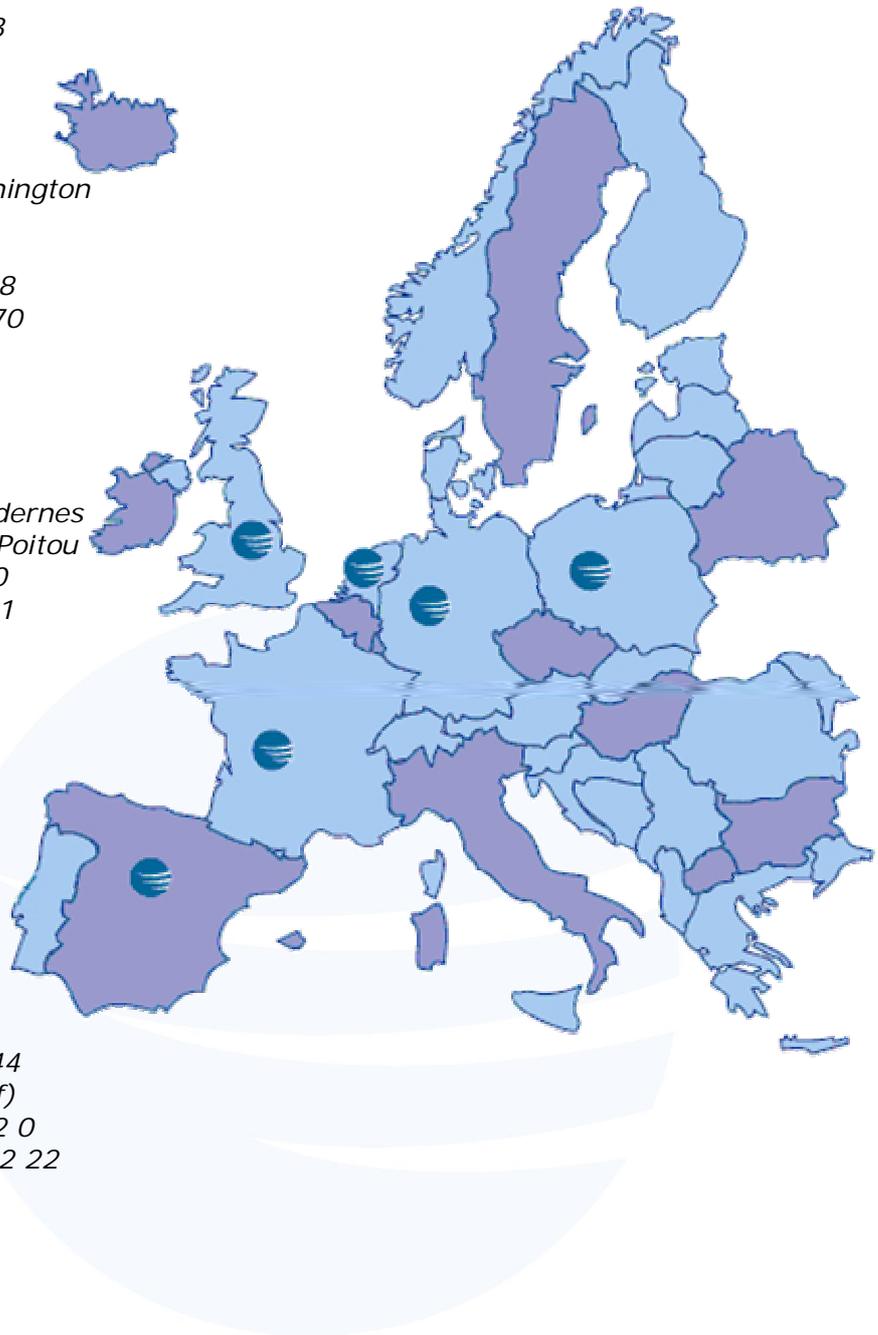
*Blastrac United Kingdom  
Unit 2, Outgang Lane, Dinnington  
Sheffield, South Yorkshire  
GB – S25 3QU, England  
Tel: 0044 (0) 1909 569 118  
Fax: 0044 (0) 1909 567 570  
info@blastrac.co.uk*

*Blastrac France  
ZI  
29, Avenue des Temps Modernes  
F – 86360 Chasseneuil du Poitou  
Tel: 0033 (0)5 49 00 49 20  
Fax: 0033 (0)5 49 00 49 21  
info@blastrac.fr*

*Blastrac Spain  
Calle Copernico, 16  
Nave 2  
E – 28820 Coslada  
Tel: 0034 91 660 10 65  
Fax: 0034 91 672 72 11  
info@blastrac.com.es*

*Blastrac Germany  
Mathias Brüggem Straße 144  
D – 50829 Köln (Ossendorf)  
Tel: 0049 (0) 221 70 90 32 0  
Fax: 0049 (0) 221 70 90 32 22  
info@blastrac.de*

*Blastrac Poland  
Golina, Dworcowa 47a  
63-200 Jarocin  
Tel: 0048 62 740 40 27  
Fax: 0048 62 740 40 27  
info@blastrac.pl*



**info@blastrac.eu**