BLASTRAC

Original instructions in English. Any other language is a translation of the original instructions.

OPERATING INSTRUCTIONS 854-DCS

VERSION 2.4

WWW.BLASTRAC.EU • INFO@BLASTRAC.EU

Inspection comments

Inspection before initial operation on: _____

By: _____

Date of initial operation: _____

Serial number & Year of manufacture: _____ _____

Recurring inspections

Date / Hour counter	Findings	Repairs / Cleaning	Test on	By*

*competent person

Table of contents

1. Introduction

Before use, operators must be provided with information, instruction and training for the use of the machine and the substances for which it is to be used, including the safe method of removal and disposal of the material collected. All persons who are working with or maintaining this machine must read the manual carefully and understand it fully. In case you sell the unit, hand it on to the next owner.
Keep this manual always with the machine, to enable it to be referred to at any time.
Any other work not covered by this operating manual must not be carried out.

This machine is designed for industrial use by professionals. Only authorized and trained personnel may operate this machine. This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. **Blastrac BV** offers a course on the use of the machine in order to make the operating and maintenance personnel familiar with all elements of the machine.

2. Machine description

The Blastrac dust collector 854-DCS may only be used in combination with Blastrac blast cleaning machines, grinders and scarifying machines. The 854-DCS can **only** be used for **dry cleaning.**
It should **only be** used for removing **noncombustible/non-explosive dust or substances**.
The 854-DCS must **not** be used for **pathogenic or carcinogenic or asbestos substances** without additional safety measures. **Always mind the local safety requirements.** Contact your dealer for additional options.
Do not use the machine in the presence of dangerous atmospheres.
The machine is designed for usage in conditions according to classification **M** (see below).

Classification acc. standard EN 60335-2-69 – Annexe AA	
Class	**Designation**
L	(light hazard) suitable for separating dust with a limit value of occupational exposure of greater than 1 mg/m3;
M	(medium hazard) for separating dust with a limit value of occupational exposure not less than 0,1 mg/m3
H	(high hazard) for separating all dusts with all limit values of occupational exposure, including carcinogenic and pathogenic dusts.

Dust emissions into the environment	
Class	**Value of performance**
L	Retains at least 99 % of Most Penetrating Particle Size (MPPS) 0.3 µm
M	Retains at least 99,9 % of Most Penetrating Particle Size (MPPS) 0.3 µm
H	Retains at least 99,995 % of Most Penetrating Particle Size (MPPS) 0.3 µm

In the case of dust harmful to health, contact the local health and safety authorities, and observe national regulations in force both during use and disposal.

In addition to the Operating Instructions general and legal regulations regarding accident prevention and environmental protection must be complied with and indicated!

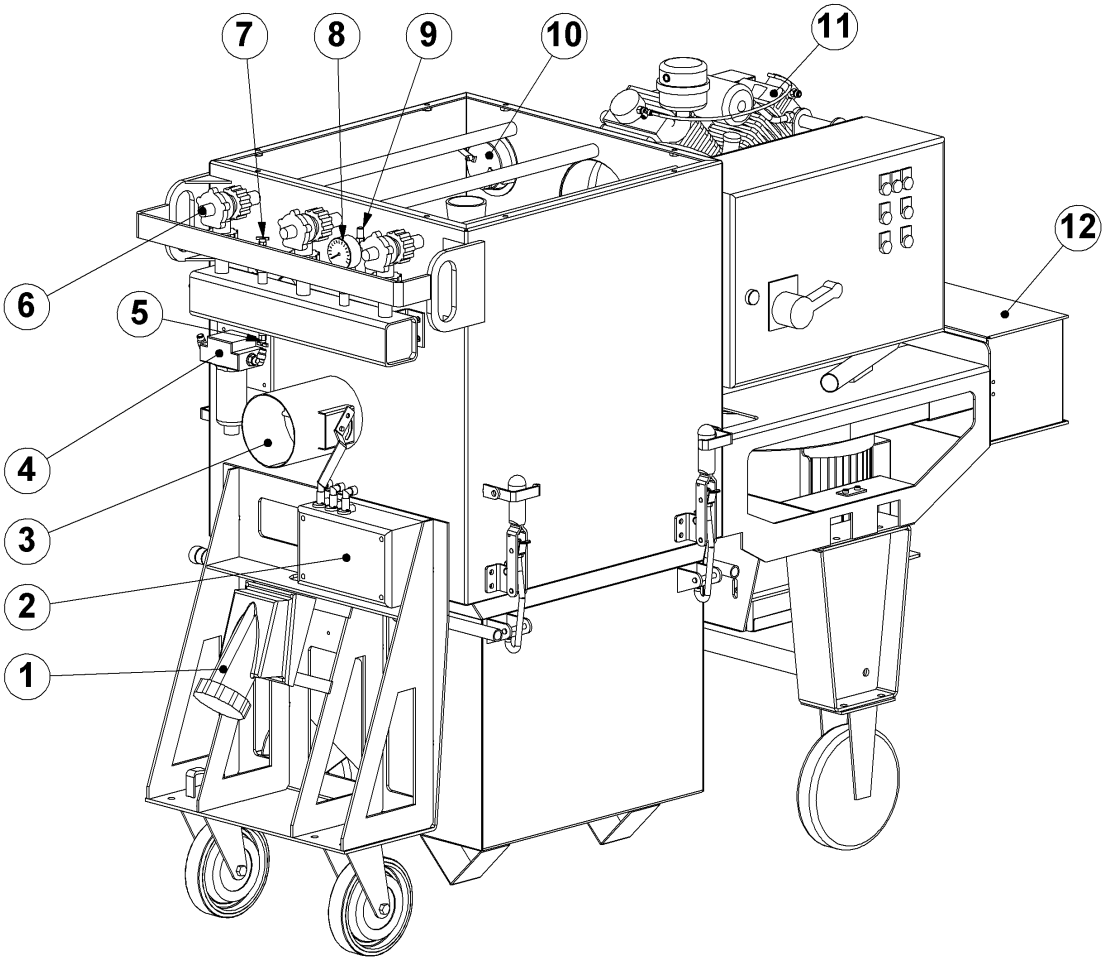
Such duties may for example relate to the handling of hazardous substances or to the provision and wearing of personal protection equipment as well as compliance with local regulations.

BLASTRAC

Application
The 854-DCS is a very powerful mobile dust extractor. This high performance machine is designed and built to be used exclusively in combination with Blastrac machines. It is equipped with **8 pieces** of specially designed **high quality M-class cartridge filters.** Contact Blastrac B.V. for the correct execution and combinations.

The dust extractor is provided with an air pulse cleaning system which increases the life of the filter cartridges. This system works by use of pressurized air, built up by a belt driven compressor. The air is led through a water separator to the pulse system.

The conditioned air then passes a control valve which regulates the system pressure, and then builds up pressure in the pulse tank. The pressurized air is used to generate a pulse of air which cleans the filters from the inside. With every pulse of the pulse system, dust and particles are released from the filter surface.



01	Extension lead for Blastrac machine	07	Control valve compressor
02	Timer box	08	Manometer, shows the pressure in the air tank. The pulse to clean the filters must be given between 6 - 7 bar.
03	Dust hose connections with butterfly valve	09	Safety valve
04	Water separator with manual drain	10	Pressure difference gauge, replace filters when indicating 15cm.H2O
05	Drain cock	11	Compressor
06	Membrane valve	12	Silencer

3. General Safety Rules

Warning!
Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire, explosions and / or serious injuries.

Only authorized and trained personnel may operate this machine. This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

It is the responsibility of the user to analyse the surface to be treated. The surface may not contain any substances which could pose a fire-, explosion- or health risk when treated. The user should make a risk assessment on the basis of the information obtained about the surface to be treated and take proper precautions for the work to be performed.
In case of any inappropriate usage, improper operation or repair, the producer shall be exempt from liability.

3.1 Work area safety

a) Do not use the machine in rain, damp or wet locations.
b) **Avoid dangerous environments:** do not work in the presence of explosive atmospheres, in the presence of flammable liquids, gases or dust. Remove materials or debris that may be ignited by sparks.
c) Make sure there is enough ambient light on the work area. Cluttered or dark areas invite accidents.
d) Only use the machine when it is parked on a flat, horizontal surface.
e) Keep children and bystanders away while operating the machine. They are likely not to foresee the potential dangers of the machine. Distractions could cause you to lose control of the machine.
f) Persons who are not operating the machine must not be permitted to stay in the surrounding area of at least 5 meter from the machine.
g) Secure the work area around the machine in public areas providing an adequate safety distance from the machine. Use a red and white safety chain and danger sign to enclose the work area.
h) It is necessary to provide for an adequate air change rate L in the room if the exhaust air is returned to the room. Comply with the National regulations.
i) Never use the machine when the surface is not clear and if there is a risk of stumbling or tripping.
j) Remove electrical cables and dust hose from the surface to be treated.
k) Make sure that there are no cables or hoses in the driving direction of the machine.
l) Make sure that there is nothing standing or situated on the surface to be treated.
m) Make sure the machine can travel over all inequalities on the surface, small inequalities like weld seams or (floor) joints are no barriers for the machine.
n) Never operate the machine when workplace is wet. Never stay in the rain with the machine.
o) Check if there are any obstacles that can snag the cables when the machine is moving.
p) Warning!
Make sure that the surface to be treated does not contain dangerous materials such as:
- combustible or explosive dusts or substances.
- carcinogenic or pathogenic substances.
In these cases, additional safety measures should be used. Always mind the local safety requirements. Contact your dealer for additional options.
q) It is necessary to provide for an adequate air change rate L in the room if the exhaust air from the dust collector is returned to the room. Comply with the National regulations.
r) Secure the work area around the machine in public areas providing an adequate safety distance from the machine. Use a red and white safety chain and danger sign to enclose the work area.

3.2 Electrical safety

a) Use only extension cables for extending the main cable that are sized and marked in accordance with the overall power consumption of the machine. **Do not use damaged extension cables.**
b) Electrical cables must be rolled entirely off of the reels.
c) Any damage to the electric cables and/or electrical components is not permitted.

d) If the power supply cable or plug is damaged, it must be replaced immediately. Only use original Blastrac parts.
e) The voltage on the identification plate must comply with the power supply.
f) The extension lead may only be used for Blastrac machines with the correct power consumption.
g) Use an electrical power supply connection with earth connection and earth leakage circuit breaker.
h) The circuit breaker of the power supply must have a ‘’D’’ characteristic. Circuit breakers with a “C” or “B” characteristic can give problems when switching the machine on.
i) **Keep the machine original; The machine is always equipped with an earthed connection, do not change this** and always use earthed cables with an earthed plug.
j) Inspect and test the electrical components regularly. The electrical components have to satisfy with the requirements set out in the harmonised norm EN60204-1.
k) Always call a skilled electrician or your distributor when you have questions about the safety of the electrical components.
l) 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.
m) Always use tools that are insulated against voltages.
n) Do not abuse the cables. Never use the cables for carrying, pulling or unplugging the machine. Keep cables away from heat, oil, sharp edges or moving parts. Damaged or entangled cables increase the risk of electric shock. Do not fold the cable or clamp it.
o) Don’t pull out the power supply cable out by the wire, but by the connector.
p) Be careful with water on the treated surface. Electrical cables must not come into contact with water.
q) The main power switch on the machine must be in the “Off” position before connecting to the power supply.
r) During a long standstill of the machine, pull out the main plug.
s) If the machine is to be operated using power from a generator, the generator must be operated in accordance with the current legal regulations and directives in force. (this applies to the protective earth conductor in particular) in order to ensure that all safety devices are functioning and to eliminate possible damage to electrical components.

3.3 Personal safety

a) Always wear Personal Protective Equipment while working with the machine.
-Dust mask class FFP3 or higher
-Ear protection
-Safety glasses with lateral protection
-Protecting gloves
-Safety shoes
b) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.
c) Personnel must tie back long hair and not wear loose clothing or jewellery including rings.
d) Stay alert, watch what you are doing and use common sense when operating the machine.
e) Always seek professional medical attention immediately in case of injury.
f) All persons surrounding the machine should wear Personal Protective Equipment.

3.4 Machine safety general

a) Safety functions and operating functions must work correct.
b) No loose bolts and nuts permitted.
c) Never operate machine without the guards and/or safety devices in place.
d) Never change anything on the safety devices on the machine!
e) Do not use the unit when it is damaged.
f) Do not **open** or **remove protective guards** while driving gears are running.
g) Hoses and pipe work can be under high pressure. The temperature can be above 37° C. Use only hoses and pipe work that are sized and marked in accordance with the machine’s overall power consumption.
h) The machine, specially the handle grips must be free of fats/oils and have to be dry.
i) All repair work has to be done by qualified Blastrac personnel, this guarantees a safe and reliable machine.
j) Always use original Blastrac spare parts and filters. This will ensure the best performance.
Only original parts meet the factory specifications and quality. Otherwise Blastrac BV cannot guarantee the safety of the machine. The part numbers can be found in the Service Manual.

k) Check the rotating direction of the motor before operation. The correct direction is given with an arrow on the housing of the motor.
l) If safety-critical changes occur to the machine or its working method, the machine must be shut down immediately! The cause of the fault must be established, and rectified.
m) In the event of operational malfunctions the machine must be shut down immediately and secured!

3.5 Dust collector safety

a) The Blastrac dust collector can **only** be used for **dry cleaning.**
b) It should **only** be used for removing **noncombustible/non-explosive dust or substances.**
c) The machine may **not** be used for **pathogenic** or **carcinogenic** or **asbestos substances** without additional safety measures. **Always mind the local safety requirements.**
Contact your dealer for additional options.
d) Do not use the machine in the presence of dangerous atmospheres like flammable gasses or dusts.
e) The machine is designed for usage in conditions according to classification **M**.
f) The dust hose must be undamaged and free of obstructions. It must be connected properly with hose clamps and industrial tape.
g) Do not point hose at people or animals.
h) Never use this machine for sucking water or liquids.
i) Acids, acetone or solvents can damage the machine.
j) Never use the machine without the filters in place!
k) Never use the machine without the dustbin attached.
l) Regularly check the contents of the dust-bin. Always wear a **dust mask of at least class FFP3** when emptying the dust bin / changing the filters. Comply with the local waste treatment regulations considering the removed material.
m) Regularly use the air pistol and drain valve to remove water from the pressure tank.
n) When temporarily interrupting the work (1/2 hour – 1 hour), only close the butterfly valve. Pulse cleaning of the filter system will continue and will increase the life-time of the filter cartridges.
o) During a longer stand still of the dust collector, close the butterfly valve and let the pulse cleaning cycle run for +/- 5 minutes. Switch off the compressor and Main-switch. Remove water from the air tank.
p) Close the butterfly valve of the inlet when the machine is turned off. This prevents moisture, dust and other contaminants to enter the machine.
q) If dust leaves the filter unit instead of clean air, this is a sign that the filter cartridges are damaged or not fixed correctly inside the chamber. Do not proceed! Rectify immediately!
r) When a filter is leaking it has to be replaced. The compartment above the filters and silencer also have to be cleaned thoroughly.
s) Compartments that are not dust-tight must be opened with suitable tools and thoroughly cleaned.
t) Operators should observe all safety regulations appropriate to the materials being handled.
u) Make sure the machine is parked on a flat and horizontal surface before operation.
v) The machine must be braked by actuating the levers on the wheels with brakes.
w) Do not allow the operation of the machine while it is moving, during operation the machine must be braked.

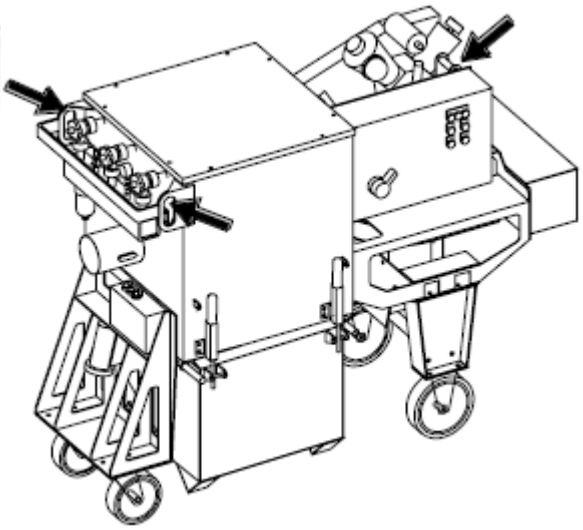
3.6 Maintenance safety

a) Pull out the power plug and place it in sight, before starting inspections and repairing on the machine.
b) Wait for standstill of all drives before any inspections, adjustments and/or maintenance work is started.
c) Block machine in stable position before doing any maintenance work.
d) Use the manual drain of the water separator to depressurize the air pressure tank before maintenance.
e) **WARNING!** Do not weld, flame cut or perform grinding works on or near the dust collector. Danger of fire or explosion exists!
f) To allow the user to carry out maintenance operations, the dust collector must be disassembled, cleaned and inspected as far as reasonably possible, without causing hazards for the maintenance staff or other people.
g) 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 equipment.
h) When maintenance or repair procedures are carried out, all the contaminated elements that cannot be properly cleaned, must be destroyed.
i) 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.
j) This procedure must also be followed when the filters have to be disposed.

k) Use only original Blastrac filters and spare parts.
l) It is advisable to stock all spare parts or wear parts that cannot be supplied quickly. As a rule, production standstill periods are more expensive than the cost for the corresponding spare part.
m) Failures due to inadequate or incorrect maintenance may generate very **high repair costs** and long standstill periods of the machine. **Regular** maintenance therefore is imperative.
n) Operational safety and service life of the machine depends, among other things, on proper maintenance.
o) Prevent premature wear by keeping the machine as dust free as possible. Clean the machine for this reason regularly with a dust collector and non-aggressive materials. Never use a high pressure water cleaner to clean the machine.
p) The dust collector must be yearly overhauled by a skilled technician.

3.7 Transport safety

a) Be aware of your surroundings and machine operating level. Do not side hill, do not run on steep incline, this could cause machine to tip over.
b) Remove the dust from the dust collector before the dust collector is transported.
c) Always dispose the contents of the dust collector before the end of the working day. Observe the local waste disposal regulations!
d) Before the dust collector is removed from the hazardous zone, take precautions to prevent dust from escaping.
e) For class H and M machines, the outside of the machine should be decontaminated by cleaning and vacuuming methods, de-dusted 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.
f) Always close the inlet of the dust collector using the butterfly valve when the dust hose is disconnected.
g) Make sure the dust hoses are disconnected and put away properly before transport.
h) The weight of the 854-DCS is 575 kg. Use a crane or lift when transporting the machine, use the lifting eye of the machine.
i) Before every use check the lifting eyes and welds for: deformation, damages, cracks, corrosion and wear.
j) When lifting the machine from the ground, always use the lowest lifting speed. The cables must first be tensioned at this speed; they must not be slack when the machine is lifted from the ground.
k) During hoisting make sure to be at a safe distance from the machine with the most optimal view on the machine and working environment.
l) Never stand directly below the machine.
m) Never use the machine for lifting persons or items.
n) When transporting the machine do so in such a manner that damage due to the effects of the use of force or incorrect loading and unloading is avoided.
o) The lifting eyes can also be used to fasten the machine on a pallet or during transport.
p) Always drive backwards when driving up to a ramp or grade, and forwards when driving of the ramp.
q) Chock wheels for transport, use the brakes on the wheels.
r) Don’t leave the machine unsecured on jobsites.
s) Park the machine always on a flat horizontal and levelled surface.
t) Make sure the electrical cable and dust hose are disconnected before transport.
u) Never use the machine for lifting persons or items.
v) Store the cleaned and dry machine in a humid free room. Protect the electrical motor from moisture, heat dust and shocks.
w) Only lift the machine on the lifting points as shown in the picture below.

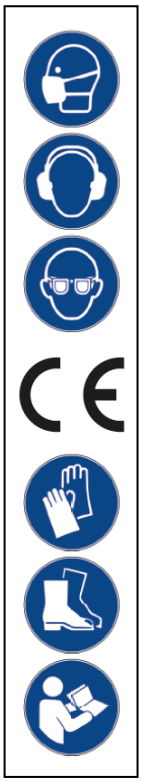


3.8 Signs on the machine

The following stickers are placed on the machine. Meanings of these symbols are:

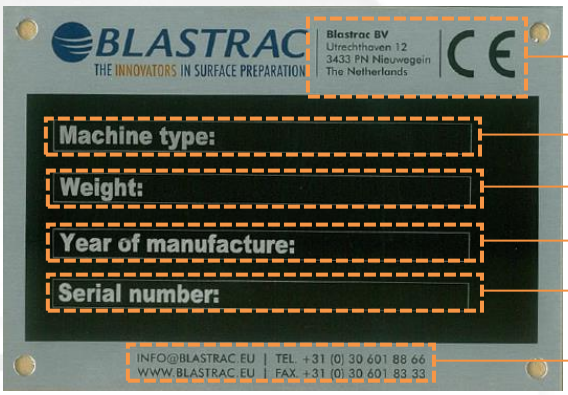
! Danger Hazardous voltage in motor even when solid state controller is OFF. Disconnect main power before servicing motor, controller or associated wiring.

Lifting point.



Wear a dust mask class FFP2 or higher.
Hearing protection is obliged.
Safety glasses with lateral protection are obliged.
CE-mark on this machine.
Wear protecting gloves.
Safety shoes obliged.
Consult the manual before operating the machine.

Type plate:



Name, address and CE mark.
The machine type.
The net weight of the machine in kilogram.
The year of manufacture.
The serial number of the machine.
Email address, Website, Telephone & fax number.

EU Declaration of Conformity:

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 the checkpoints below.

4.1 Checkpoints power supply

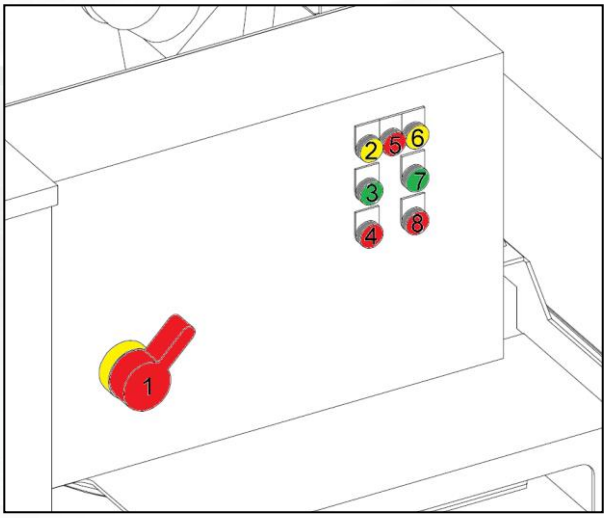
- Use only extension cables for extending the main cable that are sized and marked in accordance with the overall power consumption of the machine.
- Electrical cables must be fully unwind of them reels.
- No damage is permitted for electrical cables.
- Use an electrical power supply connection with earth connecting.
- The main switch of the machine should be put to 'Off' before connecting to the power supply.
- Make sure the power supply is in accordance with the machine specifications.
- The circuit breaker of the power supply must have a ''D'' characteristic. Circuit breakers with a "C" or "B" characteristic can give problems when switching the machine on.
- If the machine is to be operated using power from a generator, the generator must be operated in accordance with the current legal regulations and directives in force. (this applies to the protective earth conductor in particular) in order to ensure that all safety devices are functioning and to eliminate possible damage to electrical components.

4.2 Checkpoints of machine

- Safety functions and operating functions must work correct.
- Check all screws and other fasteners for tightness. No loose bolts and/or nuts are permitted.
- Check the electrical components, cables and connections for wear and/or damages.
- Dust hose connection must be reliable: use hose clamps and industrial tape.
- Dust hoses must be undamaged and free of obstructions.
- Make sure that the dust bin is empty and connected properly.
- If dust leaves the filter unit instead of clean air, this is a sign that the filter cartridges are damaged or not fixed correctly inside the chamber. Do not proceed! Rectify immediately!
- All water must be removed from the air pressure tank. Excessive water can have a negative impact on the pulse power and shortens the life-time of the filter cartridges.
- Check all air hoses for leakage.
- Make sure the machine is parked on a flat and horizontal surface before operation.
- The machine must be braked by actuating the levers on the wheels with brakes.
- Do not allow operation of the machine while it is moving, during operation the machine must be braked.

4.3 Control box

The control box is equipped with all control elements and instruments for monitoring and controlling the dust collector.



1	Main power switch
2	Control light "Compressor"
3	Compressor ON button
4	Compressor OFF button
5	Control light motor protection
6	Control light "Fan"
7	Fan ON button
8	Fan OFF button

1. Main power switch

The main power switch is located on the control box. It has to be switched OFF before connecting the machine to the power supply. It has to be switched ON before operating the machine and the use of the extension lead.

2 - 3 - 4. Control light, Buttons Compressor ON/OFF

Pressing the green button "ON" switches the compressor on, the control light shines. Pressing the red button "OFF" switches the compressor off.

5. Control light Motor protection

This light shines when the whole electric will be switched off due to an overload of one motor.

6 – 7 – 8. Control light, Buttons Fan ON/OFF,

Pressing the green button switches the fan on, the control light shines. Pressing the red button switches the fan off.

Phase inverter switch

This switch is located inside the control box. It is used when the phases of the power supply are incorrect. Set the main power switch in position "0" and open the control box door. Now you can adjust the turning direction of the motors with the phase inverter switch.

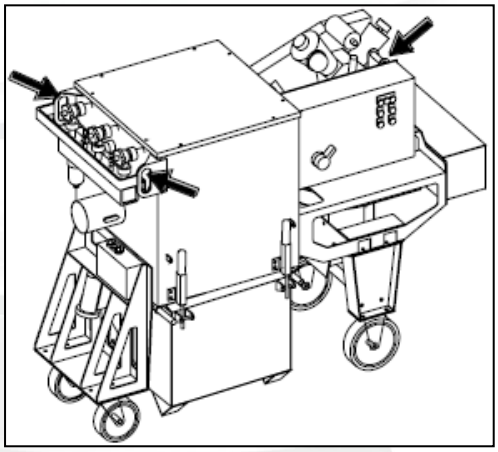
Pressure difference gauge

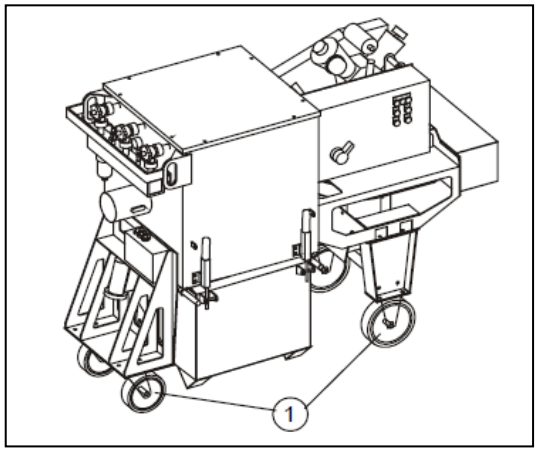
This gauge indicates the pressure difference between the clean and dirty side of the filters. Observe it to check the status of the filters. Replace the filters when it indicates 15cm.H2O.

4.4 Transport

Please read chapter 3.7 "Transport safety"
Be careful! Make sure nobodies feet get under the wheels. Wear appropriate safety shoes when you drive the machine to or from the work area.

Remove the dust from the dust collector before it is transported. The dust collector may only be lifted by using the lifting points. The weight and dimensions of the dust collector are shown in the chapter "Technical data".





Make sure that no vehicles, such as forklift trucks and other equipment run over the electric cable and the dust hose.

The machine should only be moved around when the dust hose, and power supply cable are disconnected.
WARNING! Always make sure all rotating parts have come to a complete standstill and there is no more pressure in de air tank before moving the machine around.

5. Operation

5.1 Before switch on

Extension lead

The extension lead on the machine may only be used as an extension lead for Blastrac machines.
Contact Blastrac for the correct combinations.
The extension lead on the vacuum cleaner will only be live when the mains plug is plugged in, and the main power switch is turned ON. Connection value: Vacuum cleaner + connected unit, maximum 60A.
CAUTION! Machines must be switched off when they are connected.

Checking the turning direction of the motors

- Start the machine for a few seconds by pressing the 'compressor ON' and 'fan ON' buttons.
- Stop the machine by pressing the 'fan OFF' and 'compressor OFF' buttons.
- Check the rotating direction of the fan motor (indicated with an arrow).

Correcting the turning direction of the motors

- Switch off all motors and put the main power switch to the OFF-position
- Wait for a complete standstill of all drives.
- Open the control box of the machine.
- Set the inverter switch to the opposite position.
- Close the control box and check the turning direction of the motor again.

5.2 Starting / stopping the machine

- Connect the dust hose between the machine to be used and the dust extractor.
- Connect the dust collector to the power supply.
- Switch on the main power switch.
- First switch on the compressor motor.
- Secondly switch on the fan motor.
- Carry out these actions in opposite sequence to stop the machine.

5.3 Working with the machine

- Regularly check the contents of the dust-bin. Always wear a **dust mask of at least class FFP3** when emptying the dust. Observe and obey the local waste disposal regulations!
- Regularly open the drain valve of the water separator to remove water from the air tank.

5.4 Interrupting work

- When temporarily interrupting the work (1/2 hour – 1 hour), only close the butterfly valve. Pulse cleaning of the filter system will continue and will increase the life-time of the filter cartridges.
- During a longer stand still of the dust collector, close the butterfly valve and let the pulse cleaning cycle run for +/- 5 minutes. Turn the machine off. Remove water from the air tank.
- Close the butterfly valve of the inlet when the machine is turned off. This prevents moisture, dust and other contaminants to enter the machine.
- Disconnect the power-supply cable.
- Prevent unauthorized persons from getting access to the dust collector or take measures to prevent unauthorized working with the equipment.

5.5 Emptying the dust bin

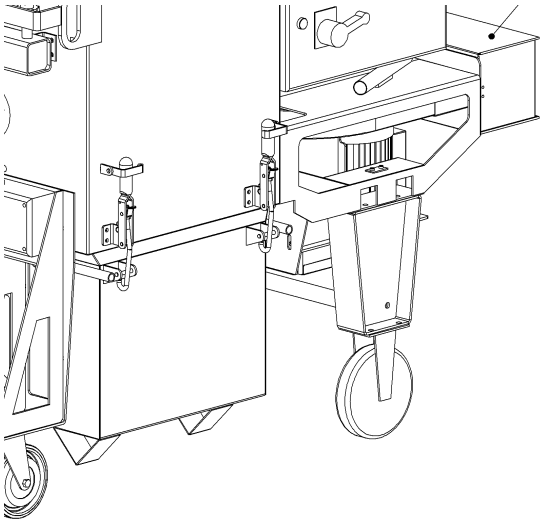
Operators should observe all safety regulations appropriate to the materials being handled.

ATTENTION! Wear a dust mask of at least class FFP3!

The level of the dustbin must be regularly checked. The periods are dependent on the type of surface preparation being carried out.

WARNING: Pay attention to the increased weight of the dustbin when you loosen the hopper toggle clamps. Loosen the clamps with caution!

Flip the protectors up and grab the red handles of the toggle clamps. Carefully move them downwards until they can be unhooked. Remove and empty the dustbin.



6. Maintenance

Pay attention to Chapter 3 **"Safety"** during maintenance and repair works.

Failures due to inadequate or incorrect maintenance may generate very **high repair costs** and long standstill periods of the dust collector. **Regular** maintenance therefore is imperative.

Operational safety and service life of the dust collector depend, among other things, on proper maintenance.

The following table shows recommendations about time, inspection and maintenance for the normal use of the dust collector.

Operating hours/ time period	Inspection points, maintenance instructions
12 h after repairing	Check all accessible screw connections for tight seat.
Daily and prior to starting work	Check all safety devices working adequate. Check the function of the residual current operated device. Check the hose connections for tightness and fixed seat. Check the hoses on the machine for damages or leakage. Make sure that the dust bin is emptied. Make sure there is no water in the air pressure tank. Check the electric connections for sediments of dirt or foreign bodies. Check the electric motors for dirt and other contaminants.
Every week	Check the oil level and quality of the compressor oil.
Every 3 months	Clean the upper section of the filter unit. Clean or replace the air filter of the compressor. Clean or replace the filter inside the water separator. Check the tension of the V-belts.
Annually	Full overhaul and cleaning of the complete dust collector. Oil change of the compressor.

The time indications are based on uninterrupted operation. When the indicated number of working hours is not achieved during the corresponding period, the period can be extended. However a full overhaul and a technical inspection must be carried out at least once a year, consisting of inspection of filters for damage, air tightness of the machine and proper function of the control mechanism. This technical inspection shall be carried out by the manufacturer or an instructed person.

Due to different working conditions it can't be foreseen how frequently inspections for wear check's, inspection, maintenance and repair works ought to be carried out. Prepare a suitable inspection schedule considering your own working conditions and experience.

Pay attention to unusual noises or strong vibrations. Check for the cause of every big change. Call a technician if you have doubts about the cause or when a repair without a technician seems not possible without damages. Only use genuine Blastrac spare parts.
Our specialists will be happy to assist you with more advice.

Prior to any repair works on the dust collector and its drives, secure the dust collector against unintentional switching on. Put the dust collector to its safety off position. Also make sure there is no air pressure on the pulse system.

The machine is in a safe condition when it cannot generate any hazard.

Follow additional operating and maintenance instructions of Original Equipment Manufacturers if included during your service and maintenance work.

Further is advised:
Store the cleaned and dry machine in a dry and humid free room. Protect the electrical motors from moisture, heat, dust and shocks.

All repair work must to be done by qualified Blastrac personnel, this to guarantee a safe and reliable machine.

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.

Screws, bolts etc. that have been removed must be replaced with those of the same quality, strength, material and design.

Do not weld, flame cut or perform grinding works on or near the dust collector. Danger of fire or explosion exists! Provide adequate ventilation when working in a confided space.
Secure the maintenance area if necessary.

6.1 When to change the filters?

When the "Pressure Diff" gauge is above 15 cm H2O, the filters are probably clogged.

Pressure Diff.
This indicates the pressure difference between the clean and dirty side of the filters. To check the status of the filters.

A vacuum gauge measures the difference between the under pressure above the filters and inner filter house. This readout indicates the degree of pollution of the filters, with this system you can always keep an eye on the condition and pollution of the filters inside the dust extractor. It can also help you fine-tune the airflow when precise adjustment is required for the job.

If the dust collector loses suction power first try the following before continuing:

1. Check if the butterfly valve on the inlet is fully opened.
2. Ensure that the compressor is fully pressurized and then turn it off. Remove all moisture from the compressed air tank by using the drain valve of the water separator. Turn on the compressor again until it is fully pressurized, now use the air gun to completely empty the pressure tank.
3. Close the butterfly valve and only turn on the compressor, keep the fan unit turned off. Let the machine pulse for about a half an hour. This action will clean the filters from the inside.

When the "Pressure Diff" gauge keeps indicating more than 20 cm H2O, the filters probably need to be exchanged.
When the machine still does not perform adequately, the filters probably need to be exchanged.

Filter replacement

By mounting new filter cartridges pay attention that their gasket at the upper side lies firm at the sheet steel of the filter chamber. A tilt of the filter cartridge result in leakage and they suction contaminants in the clean part and consequently blow they backwards in the outer air.

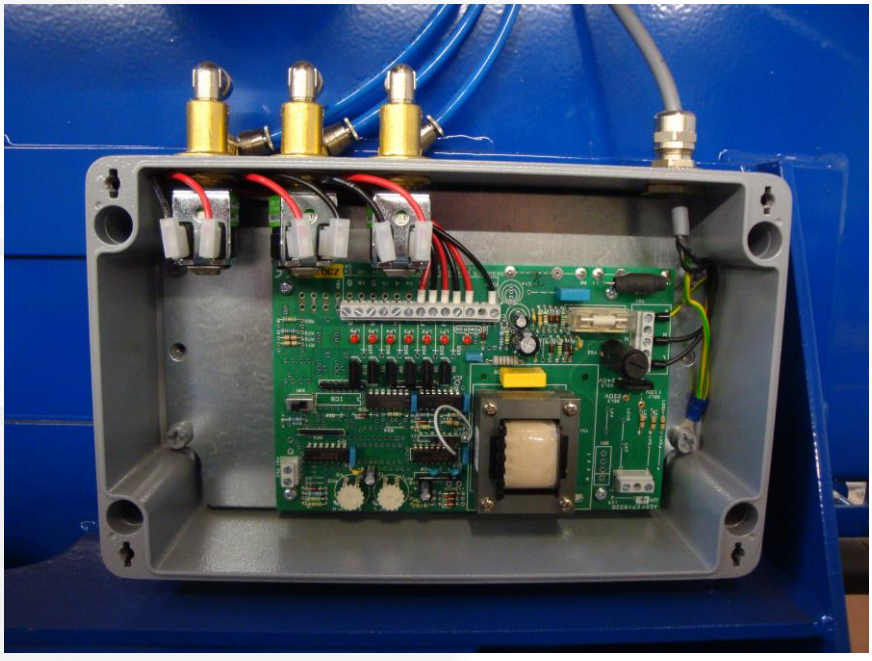
6.2 Pulse system

The Dust collector is provided with a air pulse cleaning system which increases the life of the filter cartridges.
The system works by use of pressurized air, built up by a compressor.
The air is leaded through a water separator to the pulse system.
The cooled air passes a control valve, which regulates the systems pressure , and then builds up pressure in the pulse tank.

Normally the pressure in the system lies between 6 and 7 bar. The safety valve mounted on the compressor is activated at approximately 10 bar.
This provision is to ensure that when there is a defect in the Control valve, the pressure in the pulse tank remains within safe limits.

If the pressure of 7 bar is not reached, it is possible that either the filter of the water separator or the air filter of the compressor is dirty.

When there is pressure but the pulse system does not function, there might be a problem in the electrical system which controls the pulsing system. Check the hoses and connectors for leakage and check electrical wiring for damages.



Advised is to take contact with Blastrac Support in order to prevent operational problems.

6.3 Water separator

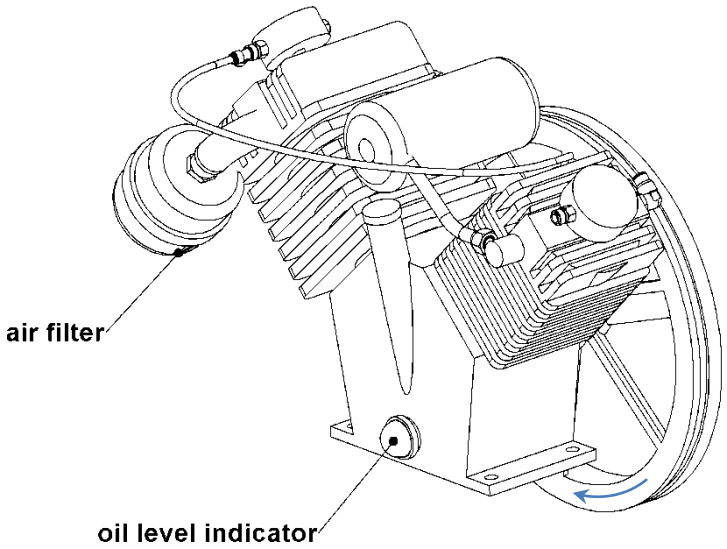
Periodically check the level indicator of the water separator.
If there is condensate level approximately 10 mm below the level indicator marking (see figure below) then either press in or turn the outlet ring as shown on figure below.

In case of less air flow as mentioned in the paragraph above, replace the filter element of the water separator.

6.4 Compressor

The oil level and the air filter of the compressor should be inspected once per week.
The interval for replacement or cleaning of the air filter of the compressor is depending on the environment in which the machine is operating. Only use air to clean the air filter. Replace the air filter at least once every ½ year or approximately 1000 working hours.

The red point on the oil level glass indicates the normal oil level. (About 0.25 liter.)
The oil in the crank case lubricates all moving parts so that no other lubrication is necessary.
The oil in the compressor should be clear and transparent. If the oil is dark and dirty it has to be replaced.

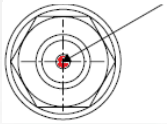


Oil change
Carry out the first oil change after 50 working hours, then after 900 working hours when using synthetic oil, and after 300 working hours when using mineral oil. Please note that oil change must be carried out at least once a year.

Use only oil especially intended for compressors, according specification C.T. 68 (ISO 68-viscosity).
Blastrac Compressor oil – Part nr. E00498

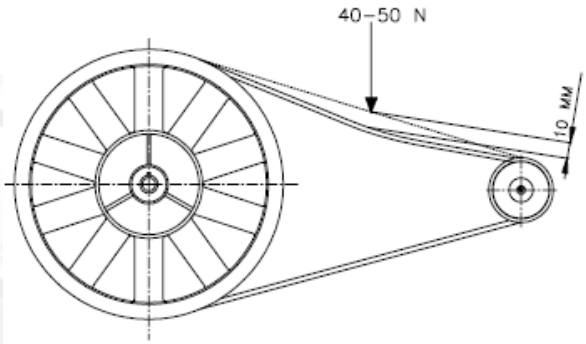
Prior to draining off the oil, the compressor unit should have operating temperature.
Check oil level 2 or 3 minutes after stopping.

The compressor is factory filled with synthetic oil. Because of the rough conditions Blastrac recommends to use synthetic oil.



Oil must be visible in oil sight glass but never above or below the red point.

After approximately 20 operating hours check the belt tension of the compressor. When the tension is too low the belt will slip and when the tension is too high, the belt may break and cause damage to the bearings.



When the belt can be pressed in by hand 5 - 10mm, it has the correct tension. (At +/- 10 kg pressure)

If the compressor does not attain the required working pressure or becomes too hot, check the following:

- Suction filter
- V-belt tension
- Oil level and quality of oil
- Leaks in the system
- Dirty cooling ribs
- Valves and seals
- Rotating direction of the flywheel
- Loose bolts
- Non-return valve
- Drain valve for water release

IMPORTANT Make sure the compressor cannot turn on and make sure there is no pressure in the system before dismantling any part of the compressor.

7. Technical data

	854DCS
Power consumption	5.5 kW
Electrical connection 854DCS	200-230V / 50-60Hz 63A CEE plug
Electrical connection 854DCS	400-440V / 50-60Hz 63A CEE plug
Air stream (hose 6" at the end)	1250 m3/hr
Dust hose connection	Ø150 mm
Dust hose length	20m
Dust bin capacity	155 L
Filter surface	36.8m^2
Length	2000 mm
Width	900 mm
Height	1500 mm
Weight	575 kg
Pressure adjusting compressor	6-7 bar
Pressure differential filter surface (MAX)	50-150 mm/WS 2-6 inch / WG
Noise level (at 1 mtr. distance)	Up to 76 dB(A)

The electrical diagrams of the electrical system are placed inside of the control panel.

Design and specifications are subject to change without notice by Blastrac BV

The original Operating Instructions are in the English language. Any other language is a translation of the original version.

IMPORTANT NOTES:
The indicated values are measured on new machines. Noise level will vary in different circumstances. Area influences like open outside or closed inside space, daily use, poor maintenance, etc. will give different values at all time and could increase the exposure level over the total working period.

The values may be measurements from a representative sample of technically comparable machinery. The values may be used for a preliminary assessment of exposure.

Always use ear protection when working with this machine.

Old equipment contains valuable materials which are valuable for re-processing. **The machine parts must not be thrown away in the normal household waste,** but should be disposed of at a suitable proper collection system, e. g. via your communal disposal location. This way the materials can be re-used in an environmentally responsible manner.

BLASTRAC

Headquarter
Blastrac The Netherlands
Utrechthaven 12
NL – 3433 PN Nieuwegein
Tel – 0031 30 601 88 66
Fax – 0031 30 601 83 33
Info@blastrac.nl

Blastrac United Kingdom
Unit 2, Outgang Lane, Dinnington
Sheffield, South Yorkshire
GB – S25 3QY, England
Tel – 0044 1909 56 91 18
Fax – 0044 1909 56 75 70
Info@blastrac.co.uk

Blastrac France (ZI)
29, Avenue des Temps Modernes
F – 86360 Chasseneuil du Poitou
Tel – 0033 549 00 49 20
Fax – 0033 549 00 49 21
Info@blastrac.fr

Blastrac Poland
Golina, Dworcowa 47a
PL – 63-200 Jarocin
Tel – 0048 627 40 41 50
Fax – 0048 627 40 41 51
Info@blastrac.pl

Blastrac Germany
Richard Byrd Straβe 15
D – 50829 Köln (Ossendorf)
Tel – 0049 221 70 90 32 0
Fax – 0049 221 70 90 32 22
Info@blastrac.de

Blastrac Italy
S.S. 10 Padana Inferiore, 41
IT – 29012 Caorso (PC)
Tel – 0039 0523 81 42 41
Fax – 0039 0523 81 42 45
Info@blastrac.it

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 Ukraine
Nezalezhnosti 14, of. 21
UA – 07400 Brovary
Tel – 0038 44 222 51 28
Fax – 0038 44 277 98 29
Info@blastrac.com.ua