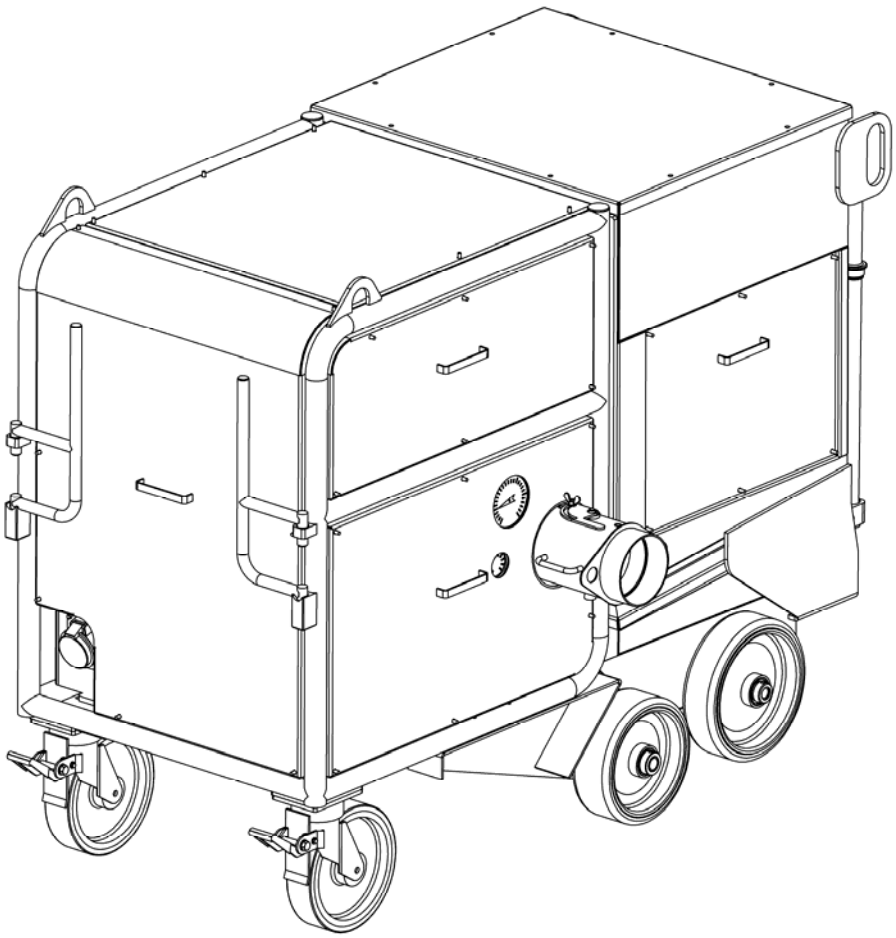
Operating Instructions
655DC



BLASTRAC

MAN-655DC-EN

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BLASTRAC


BLASTRAC

Contents Chapter 1

Technical data

1.1 Rating

1

Unit / designation:	**Blastrac** dust collector
Machine type	655DC
Manufacturer	

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1.2 Unit specifications

Technical data

Dust collector	655DC	
	50 Hz	60 Hz
Power consumption Screw conveyor	-	
Power consumption Fan / compressor	5,5 kW	6,4 kW
Power consumption Dust collector	5,5 kW	6,4 kW
Input current Screw conveyor	-	-
Input current Fan / compressor	max.11A	max.11A
Input current Dust collector	-	-
Rated speed Compressor	1080 min^{-1}	1100 min^{-1}
Rated speed Fan	4440 min^{-1}	4530 min^{-1}
Enclosure Compressor	IP 54	
Enclosure Fan	IP 54	
Connected loads	400V, 50Hz, 63A CEE Plug	440V, 60Hz, 60A UL Plug
Dust hose connection	Ø 130 mm / Ø 150 mm	
Dust hose length	20 m	
Pressure adjusting Compressor	6-7 bar	
Pressure differential Filter surface (MAX)	50-150 mm/WS 2-6 inch/ WG	
Dedusting interval	15 s	
Airflow	1250 m^3/h	

Connected loads (electrical system):

The indicated input current values correspond to the nominal current values of the motors working under full load. These values are not achieved under normal operating conditions.

Dimensions:

1

	Dust collector 655DC	
Length	1730	mm
Width	800	mm
Height	1350	mm
Weight	650	kg

1.3 Operative range and correct usage

The dust collector 655DC is exclusively designed to be used with Blastrac equipment only.

It is designed to vacuum dry dust specified to be Class L. (E DIN IEC 61J/94 CD)

The Filter material FA 6176 is certified to DIN/EN DUST CLASSIFICATION CLASS L and M.

Do not use this equipment on applications where you expect dust that is classified to be harmful. If you feel uncertain ask local authorities for assistance.

The manufacturer will not be liable for damage resulting out of from incorrect use.

In these cases the user assumes all risks.

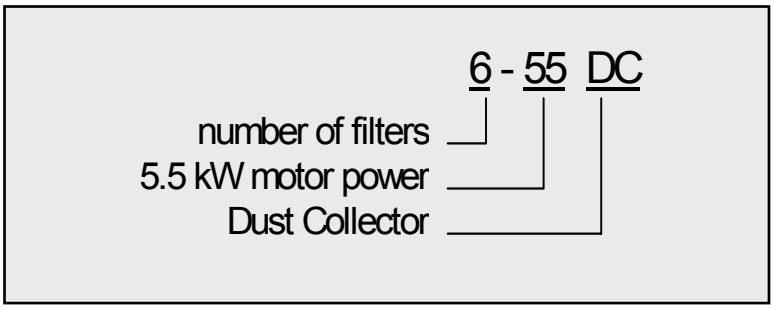
Dust collector 655DC:

The dust collector 655DC is exclusively designed to be used with the blast cleaning machines sizes 1-10, 1-15, 2-20, 350 and 350VH.

1.4 Stand-by power supply (Generator)

If the dust collector 655DC is operated using a generator, this generator must be operated in accordance with the current VDE directives (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.

1.5 Machine type designation



Technical data

1

Contents Chapter 2

2.1 Warnings and symbols

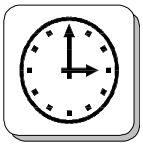
The following denominations and symbols are used in the Operating Instructions to highlight areas of particular importance:

2

Symbol of operational safety.
In these Operating Instructions this symbol will be shown next to all safety precautions that are to be taken in order to ensure prevention to life and injury. Follow these instructions and take special care in these circumstances. In addition to these instructions, the general safety precautions and accident prevention guidelines are also to be followed.

Particular details regarding the economical use of the dust collector.

Information, instructions and restrictions with regard to possible risks to persons or to extensive material damages.

Warning against dangerous voltages.	
Indications relating to protective devices in electrical appliances.	
Indications where consultation with the manufacturer of the dust collector is required.	
Instructions relating to periodical checks.	
Reference to important instructions contained in the Operating Instructions.	

2.2 Organisational measures

2

The **Operating Instructions** are to be kept **near the location where the dust collector** is located and must be **within reach at all times**!

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 traffic regulations.

The Operating Instructions must be **supplemented** by **instructions** including the duty to **supervise** and **report** relating to **particular working practices**, for example work organisation, work procedures and personnel allocation.

Personnel entrusted with working with the dust collector must have read the **Operating Instructions** before starting work, in particular the **Safety Instructions** chapter. To read these instructions during work is too late. This particularly applies to incidental activities such as setting up the equipment, carrying out maintenance work or training staff to work with the **dust collector**.

From time to time the working practices of the staff are to be **checked** regarding awareness of **safety and hazards**.

Personnel must tie back long hair and not wear loose clothing or jewellery including rings. There is a risk of injury through getting stuck or being drawn into moving machinery.

Use **personnel protection equipment** if necessary or required by regulations! Take notice of **all** safety and hazard notices on the dust collector!

All **safety and hazard notices** at or on the dust collector must be kept complete and **legible**!

If **safety-critical changes** occur to the **dust collector** or its working method, the **dust collector** must be **shut down immediately**! The cause of the fault must be established immediately!

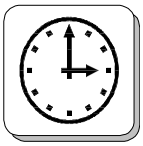
Changes, add-ons or conversions to the **dust collector** which might impair safety must not be undertaken **without the manufacturer's permission!**

2

This applies in particular to the fitting and adjustment of safety devices as well as to welding on load-bearing parts.

Spare parts must comply with the technical requirements specified by the manufacturer. This is always guaranteed if original spare parts are used.

Intervals for recurring **checks and inspections** specified in these Operating Instructions must be complied with!



To perform maintenance work correctly it is imperative to be equipped with the proper tools for the task in question.

The **location** and the operation of **fire extinguishers** must be made known on each building site!

Take note of the facilities for reporting and fighting fires!

2.3 Personnel selections and qualification

Fundamental duties:

Work on the **dust collector** may only be undertaken by **reliable personnel**. **Note the statutory minimum age!**

Only trained personnel may be deployed. Specify clearly the responsibilities of personnel for operation, setting up, servicing and maintenance work!

Make sure that only **authorised** personnel operate or work on the **dust collector**!

Define responsibilities of the equipment operator also regarding to **traffic safety regulations** and empower him to decline instructions from third parties which are not complying with the safety requirements!

Personnel being trained or made acquainted with the equipment may **only** be deployed on the **dust collector under constant supervision of an experienced person**!

2 

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**.

2.4 Safety precautions applicable to some operating sequences

Standard operation

Ban any method of working that **impairs safety**!

Some measures have to be taken in order to operate the **dust collector** in **safe and operative conditions**!

Only operate the **dust collector** when all **safety devices** and related **safety equipment,** e.g. detachable **safety devices,** emergency stops, sound insulations and suction devices are present and **operational**!

Check the **dust collector** visually for any **damage** and **defects** at least once a day!

If alterations or changes appear (inclusive of operating performance), inform immediately the responsible!

Shut down immediately the dust collector and secure it, if necessary!

In the event of **operational malfunctions** the **dust collector** must be **shut down immediately** and secured!

Do not work with the **Blastrac** dust collector when it **rains** or on **moist** surfaces! **Do not expose** the filter cartridges to **moisture**!

Faults must be immediately rectified!

Carry out the switch on and off operations and pay attention to control display according to the operation manual!

Before switching on the **dust collector** make sure that no-one can be endangered when the **dust collector** starts up!

Do not switch off or remove the exhaust and ventilation devices when the **dust collector** is running!

2.5 Special work within the scope of use of the dust collector and maintenance activities as well as repairs during operation

Adjustment, servicing and inspection work and time limits specified in these Operating Instructions as well as any information on the replacement of parts and equipment must be **undertaken and/or complied with**!

These activities may only be undertaken by **qualified personnel**.

The **operator has to be informed** about all kind of **maintenance works** before starting the process!

Nominate a responsible person!

At all works that are related to normal operation, conversion of tools adjustment of the dust collector and its safety devices as well as before inspection , maintenance and repair all ON and OFF functions have to be carried out according the operation manual and advises for maintenance and repair.

Secure the maintenance area, if necessary!

If the dust collector is switched off in order to do maintenance , repair or adjustment it has to be secured against unintended restart.

Switch OFF and disconnect it from the power supply and secure **the main switch** with a **padlock**.

Always dispose the contents of the **dust bin** of the dust collector before **loading** it on van or truck.
Observe the **waste disposal regulations,** in uncertain situation ask your next policy level.

2

Use only extension cable for extending the main cable that are sized and marked in accordance with the overall power consumption of the dust collector and of the connected blast cleaning machine and the valid VDE guidelines.

All persons in the proximity of the dust collector, when it is working, must wear safety glasses with lateral protection and safety shoes. The operator is obliged to wear close-fitting protective clothing.

Do not use any **aggressive** cleaning materials!
Use lint-free **cleaning cloths**!

Always tighten any screw connections that are undone during servicing and maintenance work!

If **safety devices** need to be taken off or **dismantled** during service and repair, these **safety devices** must be **reinstalled** and inspected immediately after completion of the servicing and repair work.

Make sure that process materials and replaced parts are disposed of safety and in an environmentally-friendly manner!

2.6 Precautions applicable to some particular dangerous categories

Gases, Dust, Steam, Smoke

Do not weld, flame cut or perform grinding works on the dust collector without express authorization. It exists danger of fire or explosion!

Only work when the dust collector has been **switched off** and is in the **safety off position**.

Before welding, flame cutting or grinding, **remove** all dust and combustible materials from the dust collector and from the area and provide adequate **ventilation** (risk of explosion)!

When working in a confined space, adhere to the appropriate national safety regulations!

Switch off the connected dust collector.

Place fire extinguishers and fire blankets within easy reach of potential fire hazards.

2.7 Oils, greases and other chemical substances

If you use oils, fats and other chemical substances observe the safety regulations in force!

2.8 Safety off position

Definition:

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

Putting the equipment in the Safety off position means:

- ☑ **Put the connected blast cleaning machine in the safety off position according to the instructions.**
- ☑ **Switch off the fan.**
- ☑ **Switch off the compressor.**
- ☑ **Wait for standstill of all drives.**
- ☑ **Pull out main plug.**
- ☑ **Secure main switch with a padlock.**

2.9 Particular dangerous aspects of the equipment

2

Any dust collector, if it is **not used according the regulations**, may be **hazardous** for operating, setting-up and service personnel. The **operating authority** is responsible for **compliance with the safety regulations** during operation and maintenance of **safety devices** supplied with the dust collector as well as the provision of appropriate additional safety devices!

Dangerous aspects of the equipment are:

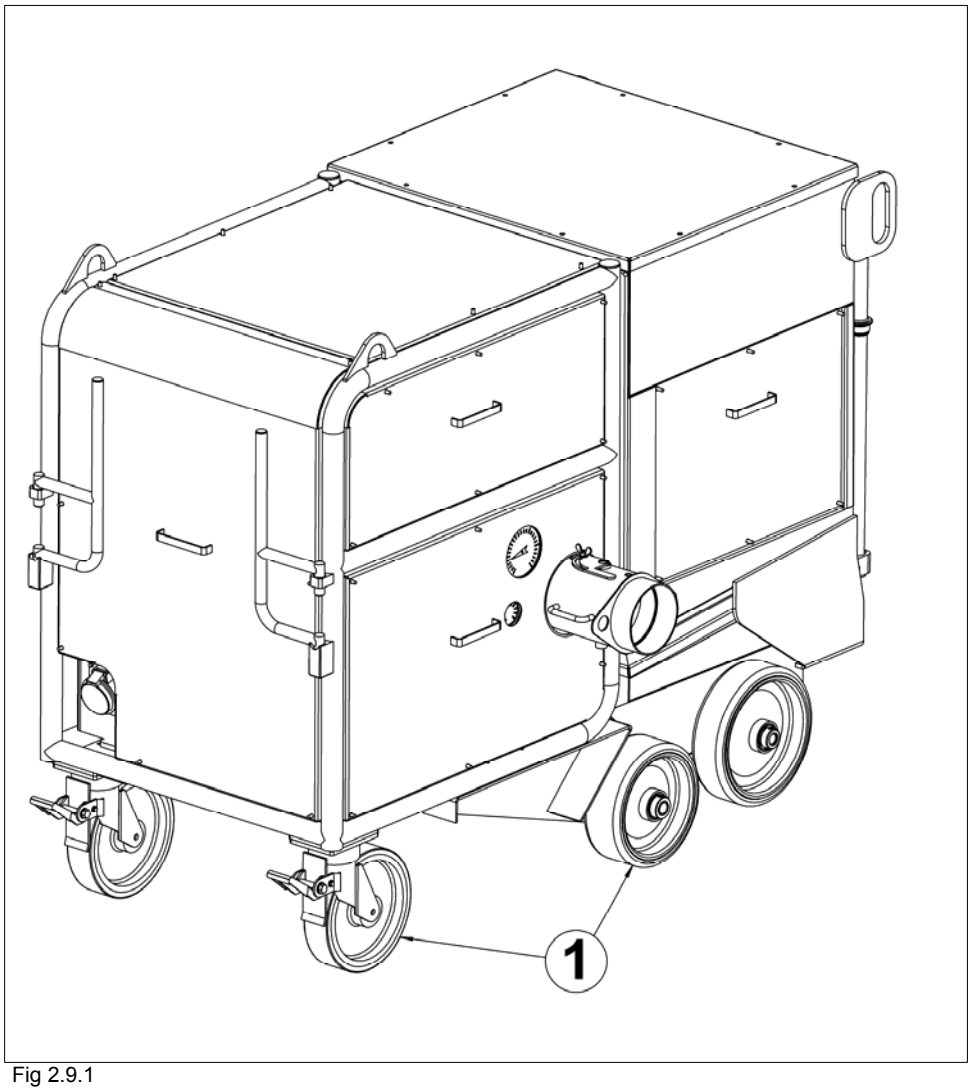


Fig 2.9.1

1 Wheels

2.10 Regulations

2

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**.

The electrical equipment for the plant must be **inspected regularly**. Defects such as **loose** connections or **scorched** cables must be rectified **immediately**. **Call a skilled electrician or our Customer Services.**

Be sure that the operators and maintenance personnel are familiar with the following:

- ❒ Lubrication, cleaning and repair works can only be done when the dust collector is in **standstill.**
- ❒ Make sure that the dust collector can not be set working during the duration of the works.
- ❒ Do not **open** or **remove protective guards** while driving gears are running.
- ❒ Once cleaning, lubrication or repair works are finished do not forget to **fix** again the **safety devices**.
- ❒ Do not touch any moving parts or stand in their path
- ❒ After cleaning, lubrication and repair works and before starting the dust collector, be certain that any person is in a dangerous area.

A second person must be at side in order to manipulate the emergency switch or rather the main switch with **overvoltage release** if maintenance or repair requires working on live parts.
The work area must be blocked off using a red and white **safety chain** and a danger sign. Use a tool that is **insulated against voltages**.

Only start work once you are familiar with the **electrical engineering regulations** that apply to your area.

Safety instructions

2.11 Pay attention to the order of the following five golden rules

2

1. Disconnect all
2. Secure it against unintended restart
3. Check that there is any electric tension
4. Earthing and short-circuiting
5. Put a barrier or cover neighbouring under voltage standing parts

The rules 4 and 5 are only prescribed for equipment over 1000 V.

Do not be persuaded by **third parties** to give up the required **switching-off** while repairing. The above-mentioned meanings of work do not include the troubleshooting, so measurement.

Only use voltage seekers that **comply with the regulations** when troubleshooting. From time to time check voltage seekers to ensure that they are operationally efficient.

Only use tools that are in **good operating condition**. Damaged tools should be **immediately repaired** or **replaced**.

Use the available **personnel protection equipment** and **safety clothes** to protect you when you are working (e.g. safety glasses, safety gloves safety shoes, etc.).

Contents Chapter 3

General

3.1 Operating manual

This manual has been written to support the operating personnel on learning the functioning of the dust collector and to guarantee optimum operation and maintenance.

3

Therefore it is important that all persons operating and maintaining the dust collector read this manual carefully and understand it fully.

The supplied dust collector has been manufactured for being employed in the user's country. All descriptions and notes have been formulated in the language of the user's country or in English in accordance with the statutory regulations, or shown as pictograms. If the customer deploys personnel with little knowledge of the language of the user's country, appropriate instruction and training must be provided.

Before using the dust collector personnel must be familiar with how to operate the machine, with all important components, with the method of working and with its dimensions.

Blastrac BV offers a course on the use of the dust collector in order to make the operating and maintenance personnel familiar with all elements of the dust collector.

Initial commissioning of the dust collector must be carried out very carefully. The dust collector operator must fully understand the sequence of commissioning of the individual parts and their functioning.

3.2 Care and maintenance

Special attendance and regular maintenance of the dust collector are imperative for functioning and safety.

3.3 Scope of supply

Scope of supply of the dust collector:

- ❒ Dust collector (655 DC)
- ❒ Operating Manual 2x

3.4 Description

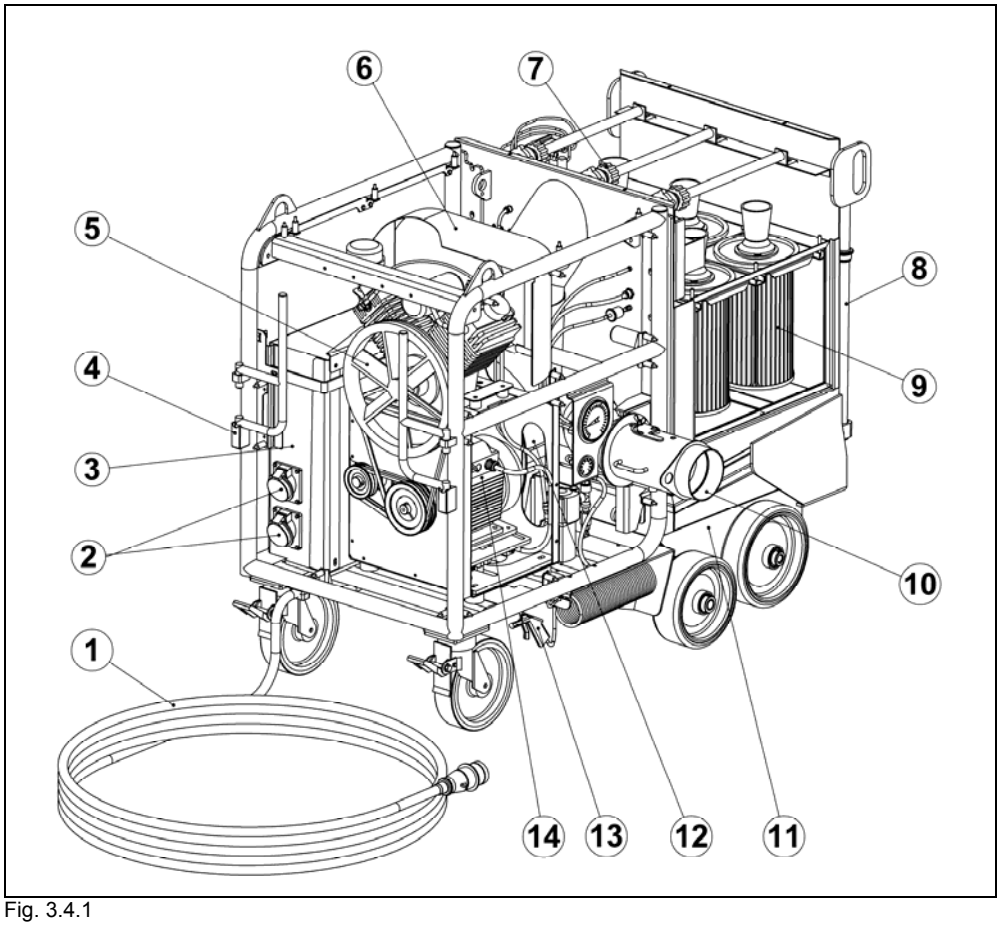


Fig. 3.4.1

1	Supply cable	8	Handle dust bin
2	Socket blast machine	9	Filter cartridges & lifting system
3	Control box	10	Connection blast machine
4	Cable support	11	Dust bin
5	Compressor	12	Fan
6	Silencer	13	Air pistol
7	Pulse system complete	14	Motor

3.5 Control box

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

Fig. 3.5.1

1	Main switch	6	Control lamp “Thermical Failure”
2	Emergency shutdown switch	7	Control lamp “Phase incorrect“
3	Button “Compressor/Fan OFF“	8	Button “Screw conveyor ON“ (option)
4	Button “Compressor/Fan ON“	9	Button “Screw conveyor OFF“ (option)
5	Hour counter		

Main switch

The main switch is located on the main box. It has to be switched on before operating the dust collector and the blast cleaning machine.

Button Compressor/Fan ON/OFF

Pressing the button "ON" switches the compressor and the fan on, pressing the button "OFF" switches the compressor and the fan off.

Control lamp Thermical failure

This lamp shines when the machine is overloaded.

Control lamp Phase incorrect

This lamp shines when there is a failure with the phases.

Emergency shutdown switch

Red mushroom-shaped press switch onto a yellow background. Pressing this switch immediately stops the power supply to all units of the machine, shut down switch requires re-setting after it has been used.

3.6 The suction air system

The air streaming through the complete system during the application of the blast cleaning machine and the dust collector has the following functions:

- ❒ Cooling of the blast wheels
- ❒ Cooling of the abrasive
- ❒ Transport of the abrasive
- ❒ Transport of dust through the system
- ❒ Separation of dust from the re-useable abrasive
- ❒ Transport of dust to the dust collector

General

Motor output:	5.5 kW
Air throughput:	1250 m³/h
Connected cable length:	20 m
Dust hose	
Length:	20 m
Diameter:	130 / 150 mm

3

All connection points must be sealed carefully and the dust hose must be fixed and sealed with duct tape or hose clips !

The filter housing must be sealed properly and all sealings must be in good condition!

If dust leaves the dust collector instead of clean air, this is a sign that the filter cartridges are either damaged or not fixed correctly inside the filter chamber.

The air streams through the dust collector as follows:

- ❒ The air stream then flows through the approx. 20 m long flexible dust hose taking dust and fine particles with it.
- ❒ The air stream now enters the filter chamber of the dust collector where the dust and the fine particles are separated from the air. The cleaned air is then fed into the environment again.

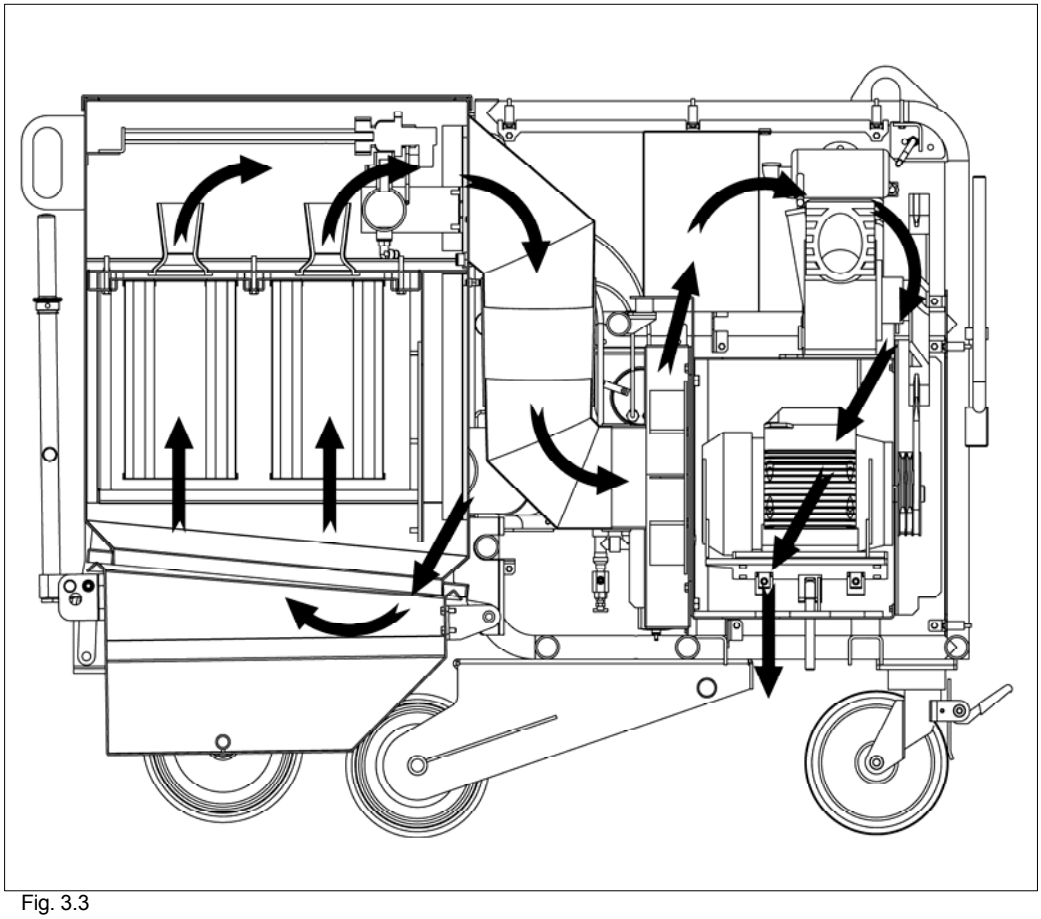


Fig. 3.3

General

Contents Chapter 4

Transport

4.1 General information

Before the dust collector is used for the first time, **Blastrac BV** authorised dealers offer a course to familiarise maintenance and operating personnel with all elements of the dust collector. We are not liable for damage caused by incorrect use of the dust collector by personnel not trained by **Blastrac BV.**

4.2 Transport

When transporting the dust collector proceed in such a manner that damage due to the effects of the use of force or incorrect loading and unloading is avoided.

Remove the dust from the dust collector before it is transported. The dust collector may only be lifted by using the suspension eyelets. The weight and dimensions of the dust collector are shown in Chapter 1 "Technical data“.

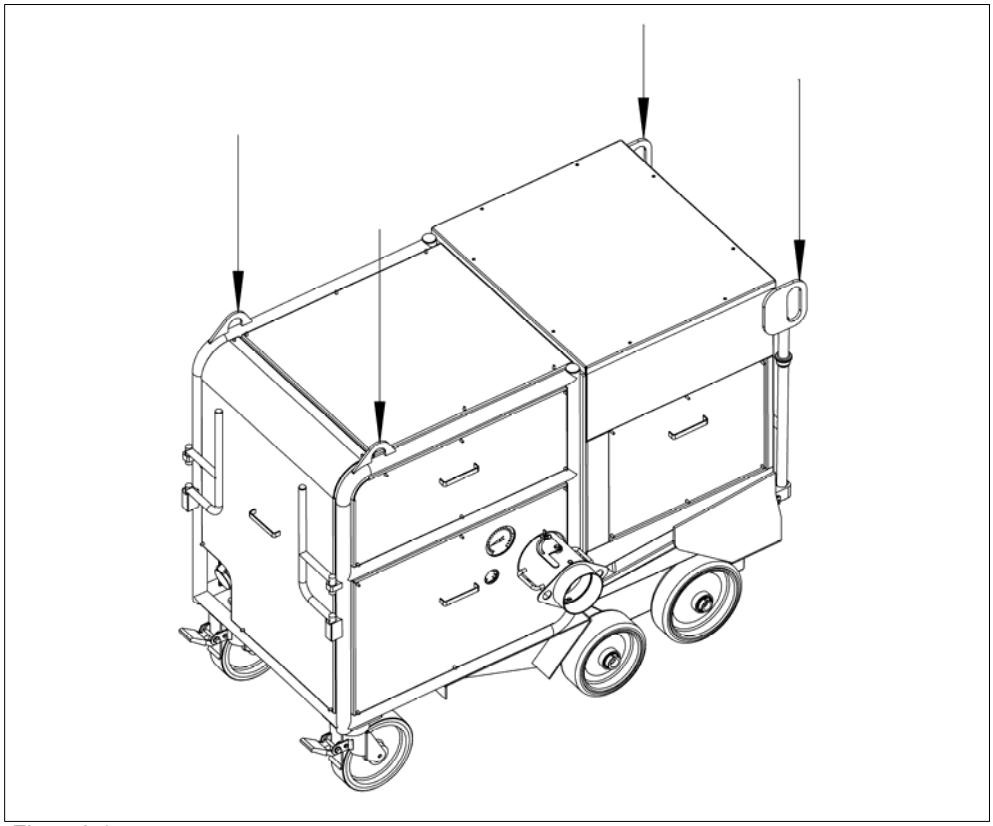


Fig. 4.2.1

4.3 Preparations with regard to transport

The machine is operated in accordance with the instructions given in Chapter 5 ”Initial operation“.

Fig.4.3.1

The dustcollector is equipped with a cable support. Wrap the supply cable over it in order to avoid damaging during transport.

Always activate the brakes on the front wheels in order to prevent running away of the machine

Fig.4.3.2

Remove the dust hose connectors in order not to loose them and to avoid damage to the machine and parts.

4.4 Unit specifications

Dimensions

The main dimensions and unit specifications of the dust collector when assembled are shown in Chapter 1 "Technical data“.

Transport

Contents Chapter 5

5.1 Preparations for initial operation

Before switching on make sure that all existing protective housings are mounted and that the dust collector is connected correctly.

Handle all plugs, cables, hoses and operating devices with care. Avoid any contact with live wires.

Works on the electrical system must only be carried out by qualified specialists.

Regular inspection is important in order to avoid downtimes of your dust collector. Carry out the following checks before any start-up:

☑ Check whether all dust collector parts are assembled safely and correctly.

5

☑ Check all screws and other fasteners for tight seat

☑ Check the tightness of the hose connections and the condition of the hose to the filter.

☑ Check the electrical connections for dirt and foreign body deposits.

☑ Check the electrical motors for dirt and other contaminants.

Before start-up the operating personnel must be familiar with the safety regulations given in this manual.

☑ Check the main power cable and the dust hose for damage. Replace or repair all damaged parts before starting the machine.

☑ Connect the blast cleaning machine and the dust collector with the dust hose. Use hose clamps or duct tape at the connections.

☑ Connect the electric cable of the filter unit with the site supply. Make sure that you use the correct electric supply (Chapter 1.2).

Press the test button to check the function of the residual current operated device!

☑ Check that the dust container of the dust collector is empty.

5.2 Initial operation

All persons in the proximity of the dust collector must wear ear protectors, safety glasses with lateral protection as well as safety shoes. The operator is obliged to wear close-fitting protective clothing.

5

The start of the dust collector is effected in the following sequence:

1 Switching on of the dust collector

❒ Main switch of the dust collector "ON"

❒ Compressor/Fan "ON"

❒ Check the turning direction of the filter and compressor motor.

5

Fig. 5.2.1

The correct turning (as indicated) can be checked by visible inspection of the drive unit.

How to correct the turning direction of the driving motors

- ❒ Switch off the driving gears.
- ❒ Switch off the main switch.
- ❒ Open the control box of the dust collector.
- ❒ Set the inverter switch to the opposite position

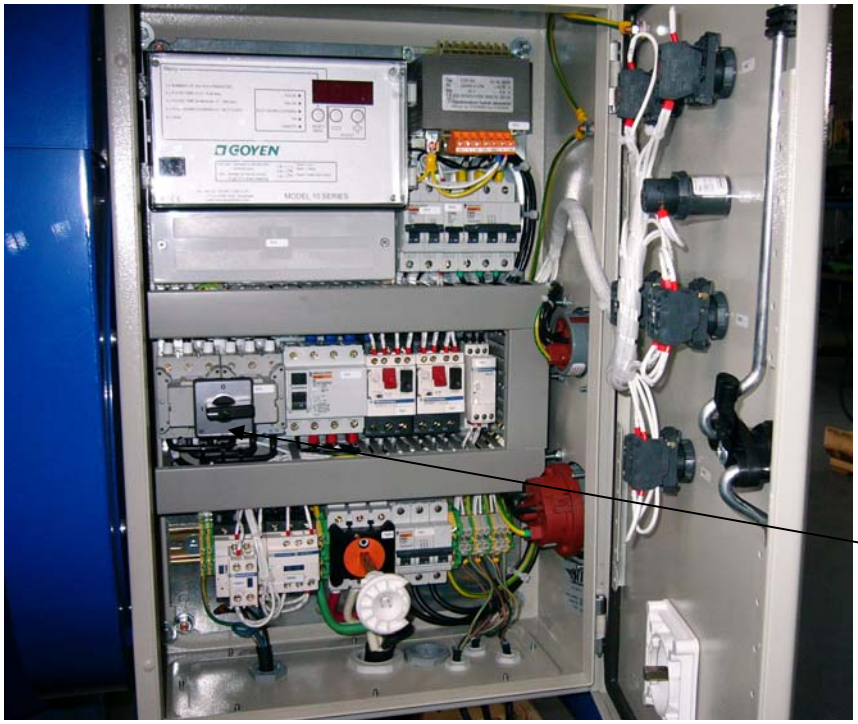


Fig.5.2.2

- ❒ Close the control box
- ❒ Check again the turning direction of the driving gears.
- ❒ The initial operations take place in accordance with the chapter "Initial operation" of the operating manual of the blast cleaning machine.

The dust container of the dust collector must be emptied regularly.

5

Contents Chapter 6

6.1 Operation

Normal start-up and operation of the dust collector 655DC is no different from the procedure described in Chapter 5 “Initial operation”.

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

6.2 Connecting the dusthose

To connect a Blastrac machine to the dustcollector, a hose with internal diameter of 130 mm. or 150 mm. can be used.

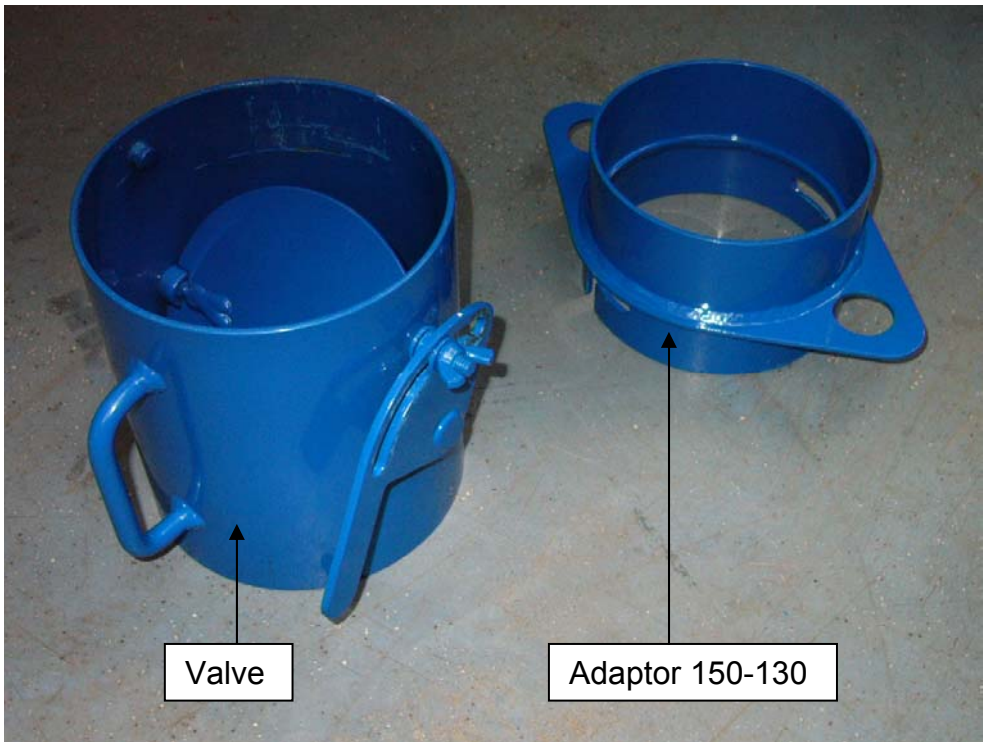
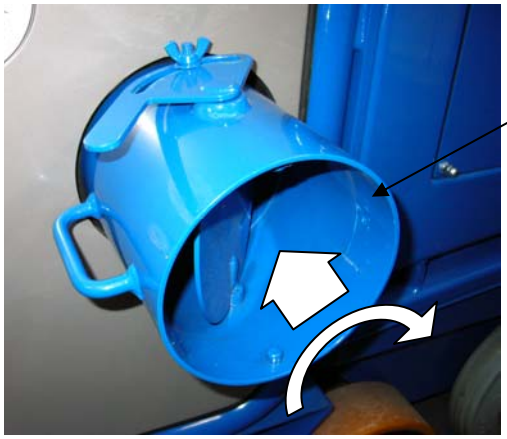


Fig.6.2.1

Hose 150 mm.



Slip the valve with recess on the connection point of the dustcollector and turn the valve to fix it.
Connect hose 150 and fix with ducttape or hoseclamp.

Fig.6.2.2

Hose 130 mm.

Fig.6.2.3

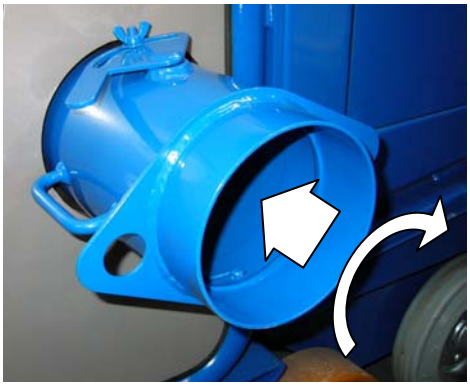


Fig.6.2.4

Slip hose 130 **in** the adaptor and fix it with ducttape on the outside.
Then slip the adaptor with recess on the valve and turn the adaptor to fix it.

6.3 Emptying the dustbin

The level of the dustbin must be regularly checked. The periods are dependent on the surface to be cleaned.

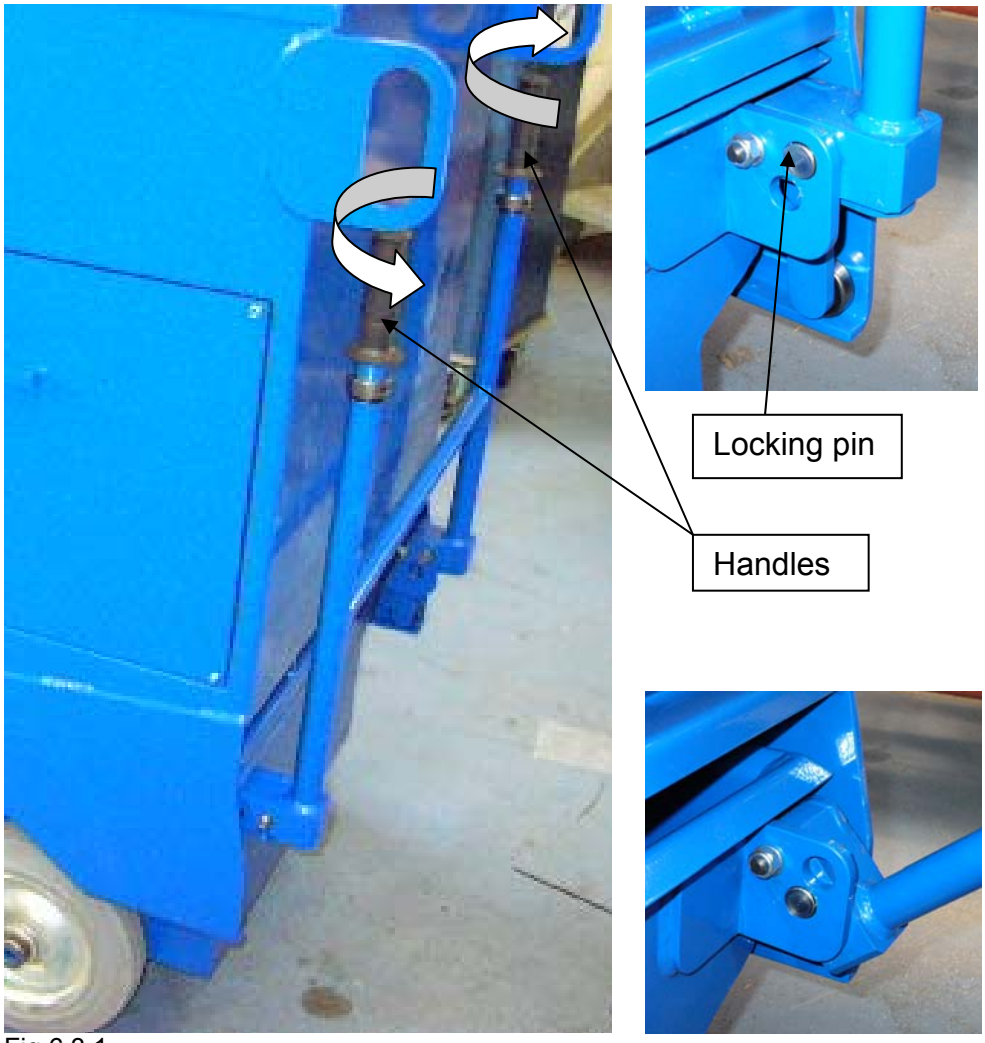


Fig.6.3.1

Rotate the handles in shown direction to release the locking pins.
Push the handle down and lock it in lower position to enable separation of the dustbin from the filter house.

Fig.6.3.2

After emptying the dustbin, carry out the actions in opposite sequence. Ensure that the dustbin is at a correct way repositioned.
If not, there can occur a major leakage in the dust collector system.

Safety precaution: Pay attention to the increased weight of the dustbin when you release the locking device. Loosen the handle with caution!

6.4 Switching-off the dust collector

❒ After finishing the blast cleaning process, the dust collector must run several minutes to dedust the filter cartridges.

❒ After several minutes press the push button "Compressor/Fan OFF".

❒ Set the main switch of the filter unit to "OFF".

Make sure that all turning dust collector parts have come to standstill before any inspection or maintenance works are started.

When the **Blastrac** dust collector is put out of operation for a longer period of time, pull out the mains plug and cover the dust collector with a plastic foil.

6.5 Trouble shooting

Irrespective of the following information, the local safety regulations are valid in any case for the operation of the dust collector.

First put the dust collector to its **Safety off position**. Afterwards start searching for the fault.

6.6 Safety shutdown

The dust collector has to be into its **"Safety off position"** before starting repair works. See Chapter 2.5 "Safety instructions".

6.7 Restarting after a fault

See Chapter 5 "Initial operation".

All persons in the proximity of the dust collector must wear ear protectors, safety glasses with lateral protection as well as safety shoes. The operator is obliged to wear close-fitting protective clothing.

6.8 Proceedings- prior and after a stationary period

Stand still of the machine for a maximum of 3 months.

Before a long standstill period

- ☑ Switch off the dust collector. (See chapter 6.4)
- ☑ Protect the electric motors from moisture, heat, dust and shocks.
- ☑ Clean the machine and cover it with a plastic foil.
- ☑ Preserve bright parts of the dust collector with Tectyl 506, for example, or a similar preservative.

After a long standstill period

See Chapter 5 “Initial operation

Operation

6

Contents Chapter 7

7.1 Recommendations

Pay attention to Chapter 2 **"Safety information"** 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.

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 must be carried out at least once a year.

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.

7

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.

Follow additional operating and maintenance of OEM if included during your service and maintenance work.

7.2 Maintenance and inspection list

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 hose to the filter for damages. Make sure that the dust bin of the filter is emptied Check the electric connections for sediments of dirt or foreign bodies. Check the electric motors for dirt and other contaminants.
Annually	Full overhaul and cleaning of the complete dust collector.

7.3 Repairing

As already mentioned in Chapter 5 “Initial operation” we recommend executing the first repair works on the dust collector having support of **Blastrac BV** personnel. Doing this together, your maintenance personnel gets the opportunity to be trained intensely.

We will describe only regular maintenance works that could occur within the bounds of regular maintenance or work that is required to replace wear parts.

If you replace parts yourself for specific reason, the following instructions and work sequence have to be observed.

Maintenance

You should also stock all spare 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.

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

Prior to any repair works on the dust collector and its drives, secure the dust collector against unintentional switching-on. Pull out the mains plug in order to do this. Also make sure there is no air pressure on the pulse system.

7.4 The V-belts

The V-belt drive is designed for the installed driving power. To force a higher output through an excessive high tension of the V-belt will break the belt, damage bearings and cause losses of the total efficiency. Too low belt tension will cause slipping with the result of a very high temperature of the V-belt a premature destruction of it. Temperatures over 70° for a longer period will decrease the working life and the efficiency of the V-belt. The grooves of the V-belt pulleys must be free of rust, fat and dirt and must not show any damages. The use of belt wax or similar substances in order to increase the friction coefficient is not necessary and it damages the V-belt. Soiling due to oil, grease or chemicals have to be avoided.

In order to get perfect power transmission the V-belt drive has to be checked regularly.

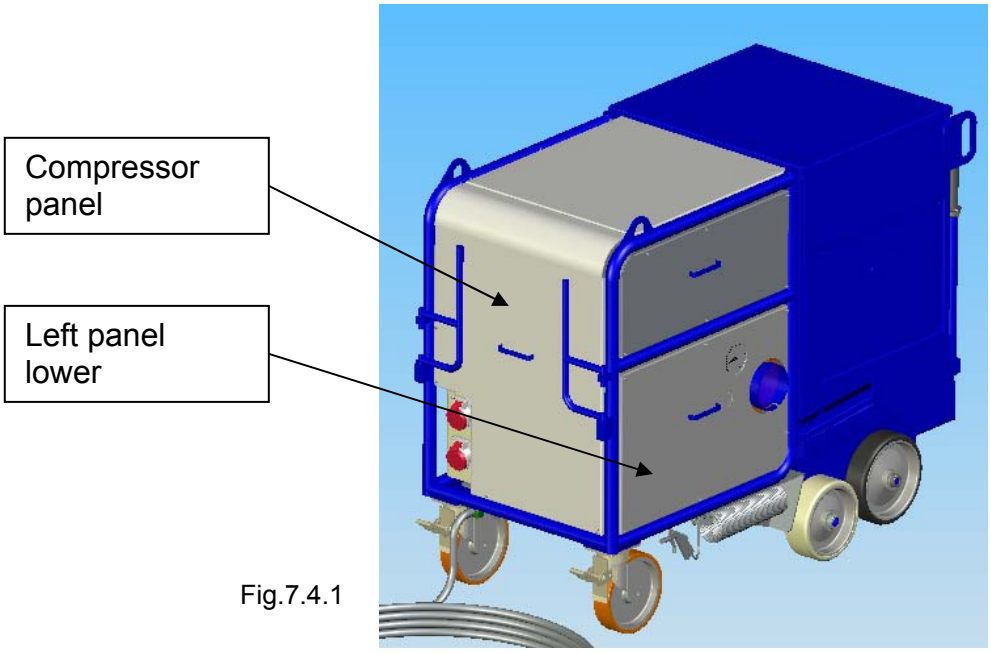


Fig.7.4.1

The V-belt drive is located behind the Compressor panel.
The V-belt tension device is located behind the Left lower panel.

7.5 V-belt mounting

Remove the belt guards only when the driving motors are in standstill and the main switch of the blast cleaning machine is secured.

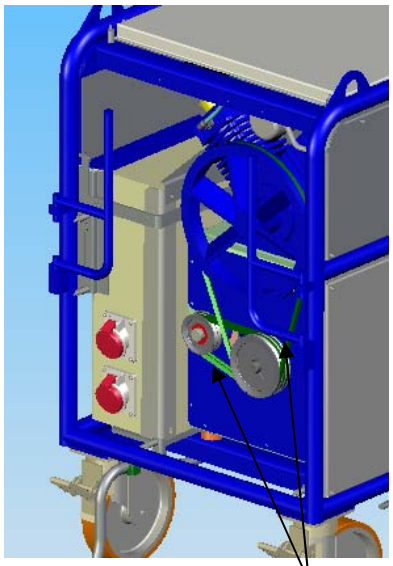
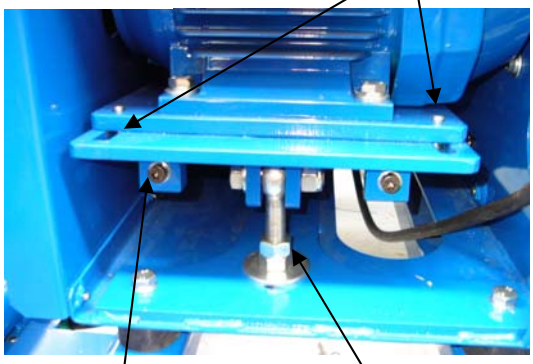


Fig.7.5.1

V-belts

Fig.7.5.2



Fan belt :

1. Remove the Compressor and the Left lower panel.
2. Loosen the mounting plate bolts, there are 4 bolts which are reachable from underneath.
3. Loosen the bolts for the adjustment of the fan belt and reduce the distance between the driving motor and the bearing to release the tension of the V-belt drive.
4. Remove the old belt.
5. Put on the new V-belt in the grooves of the V-belt pulley by hand and without using the force.
6. Increase the distance between the driving motor and the bearing to stretch the V-belt as described in **paragraph 7.6**.
7. Fasten the mounting plate bolts.
8. Place the Compressor and the Left lower panel back with the appropriate fasteners.

Compressor belt :

1. Remove the Compressor and the Left lower panel
2. Loosen the adjustment for the Compressor belt .
3. Reduce the distance between the driving motor and the Compressor to release the tension of the V-belt drive.
4. Remove the old belt.
5. Put on the new V-belt in the grooves of the V-belt pulley by hand and without using the force.
6. Increase the distance between the driving motor and the Compressor to stretch the V-belt as described in **paragraph 7.6**.
7. Place the Compressor and the Left lower panel back with the appropriate fasteners.

7.6 V-belt tension

The correct V-belt tension is of utmost importance in order to obtain a perfect power transmission and to reach the usual working life of the V-belt. Too low or to high tension causes frequently a premature breakdown of the V-belt. Excessive belt tension results in damaged bearings at drives or scarifying drums.

Check the tension of the V-belt by pressing the thumb on the belt. The belt has the correct tension if you can press it in for approx. 10-15 mm (Fig. 7.6.1).

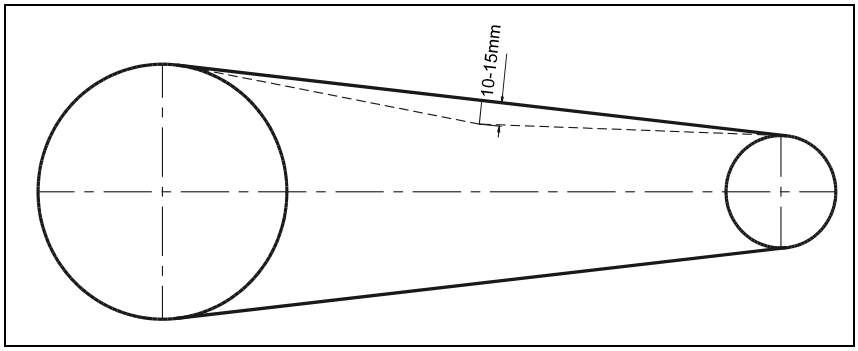


Fig. 7.6.1

7.7 Taper-Adapter sleeve

Hubs will be fixed like a shrunk-on fit on shafts with the help of taper adapter sleeves. To assembly and disassembly it you need only a screw driver DIN 911 (Allan key). The same set screw or rather the same screws serve to loose and to stretch.

The taper – adapter sleeve are inside cylindrical, outside cone shaped and slotted along the length. The smaller sleeves have in the big face 2 and 3 cylindrical blind holes parallel to the axis. One half lies on the material of the sleeves and the other half lies in the hub and have threads.

Set screws or rather screws will be screwed in with a Allan key to the stop in the face bores. When the screws are powerful tightened, the hub will be drawn on the shaped sleeve and the sleeve will be pressed with force on the shaft.

Fig. 7.7.1

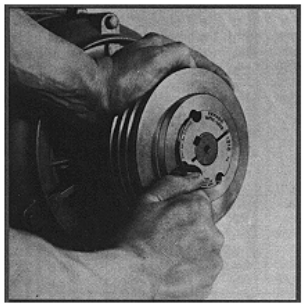


Fig. 7.7.2

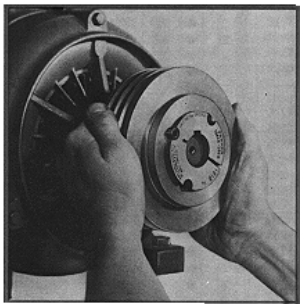


Fig. 7.7.3

Dismount:

1. Dismount the screws of the belt-pulleys. Lubricate the threads and the coned point of one screw and turn it in the bore, as described in the figure.

2. Screw down the screws until the sleeve sits loose in the belt pulley and consequently the structural components are loose on the shaft.

3. Remove the belt-pulley and the sleeve from the shaft.

Mount:

1. Make sure that all surfaces they lie superpose are dirt and oil free. Set the sleeve in the belt pulley.

2. Lubricate a little the screws and insert it in the designated tap hole.

3. Clean the shaft and push the pulley with the sleeve, as a unit, on the shaft and set the structural components. Make sure that the sleeve will be first tightened on the shaft and then the belt pulley lifted up by the sleeve.

4. Use a Allan key to tighten the screws progressively and alternately.

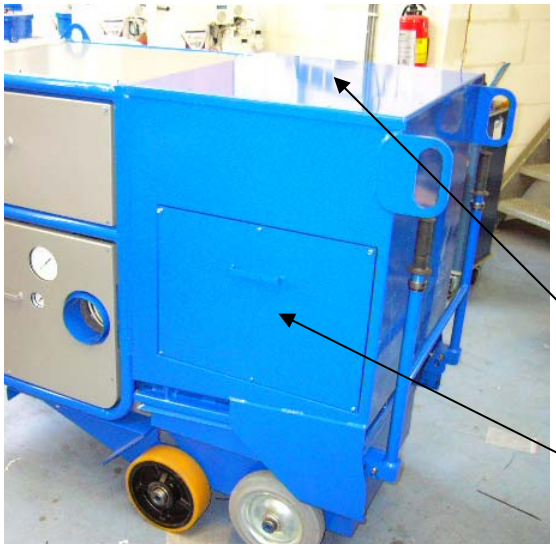
5. Hit with a hammer the face of the sleeve to make sure that it is seated axial in the pulley. (Use a drift to avoid damages.)

6. Now tighten the screws. Hammer and tighten alternately until the screws are tight.

7.8 Replacement of filter cartridges

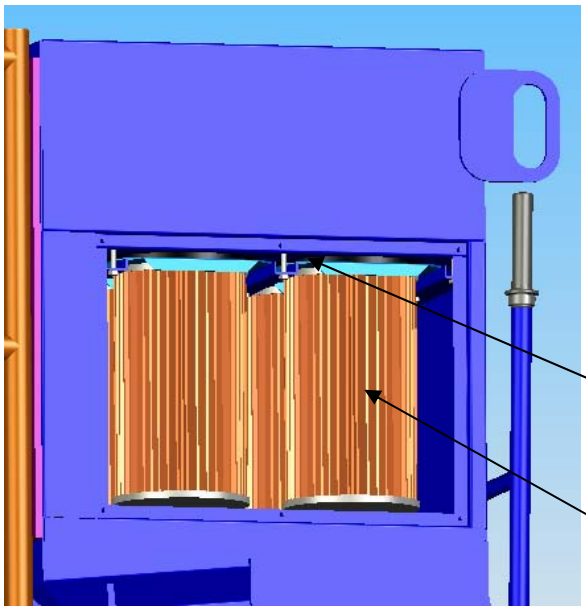
The Dust collector is provided with a air pulse cleaning system which increases the life of the filter cartridges.
However periodical the filters have to be replaced. This can be checked by the indication of the pressure gauge. The gauge is located on the opposite side of the filter house.
When the value of 8 cm H_2O (=0.008 bar) is indicated, the filters should be replaced.

Fig.7.8.1



Remove the upper cover and side door to access the filter cartridges and lifting frame.

Fig.7.8.2



Through the access at the top of the filter house, unscrew the wingnuts of the lifting frame.

Fig.7.8.3

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 then suction contaminants will enter the clean part and consequently will be blown back into the outer air.

7.9 Air 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 belt driven compressor
The air is leaded through a waterseparator to the pulse system.

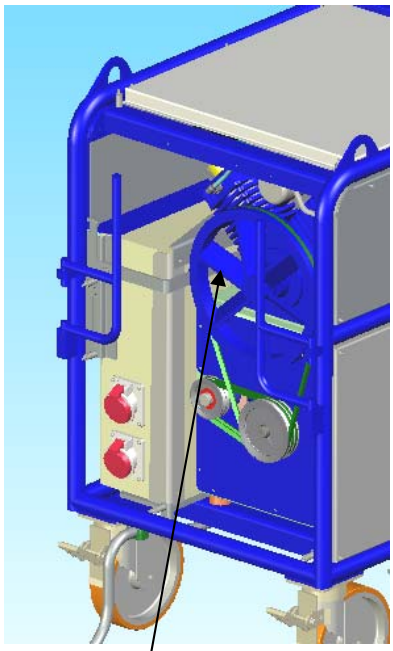


Fig.7.9.1

Fig.7.9.2

The conditioned air then passes a control valve, which regulates the systems pressure , and then builds up pressure in the pulse tank.

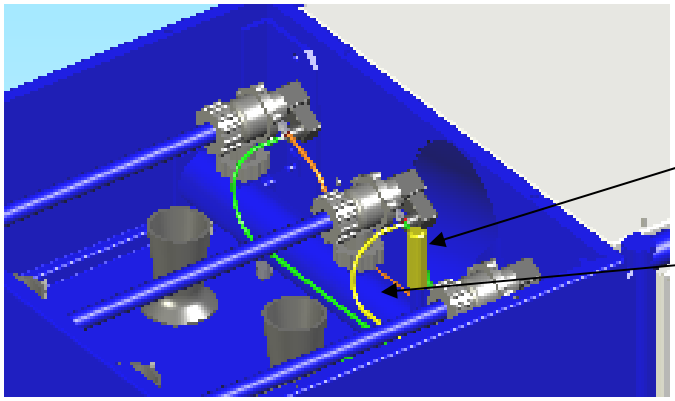


Fig.7.9.3

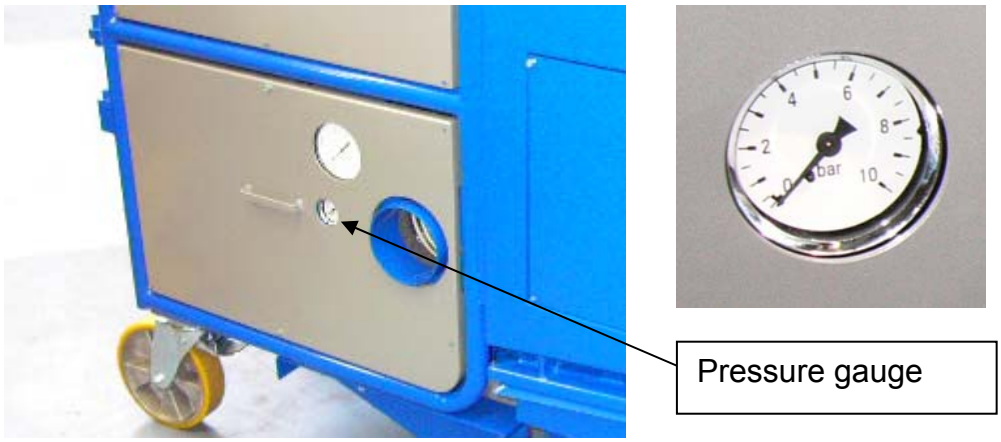


Fig.7.9.4

The pressure in the pulse system is indicated on the pressure gauge. It is mounted in the Filter house next to the vacuum gauge.

Normally the pressure in the system lies between 6 up to 7 bar. This is regulated by the control valve. The safety valve mounted on the pulse tank is activated at approximately 10 bar.

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. For maintenance instructions on the **waterseparator** see paragraph **7.10.** For maintenance instructions on the **compressor** see paragraph **7.11**

If inspection on the waterseparator or compressor shows no dirty filter, it is possible that either there is a leakage in the air tubing, or the control valve is defect. In that case replace the defective parts or have it checked by Blastrac.

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 wiring and the timer-unit settings. For timer-unit settings see paragraph **7.12 .**

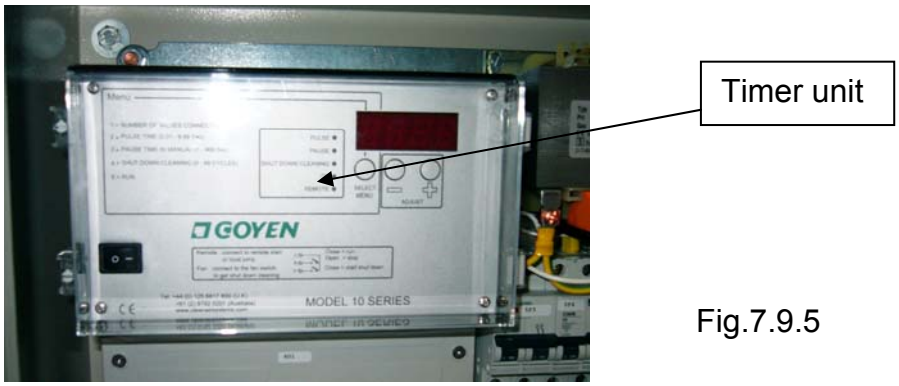


Fig.7.9.5

7.10 Water Separator

Periodically check the level indicator of the waterseparator.
If there is condensate level approximately 10 mm below the level indicator marking (see figure 7.10.1) then either press in or turn the outlet ring as shown on figure 7.10.3 .

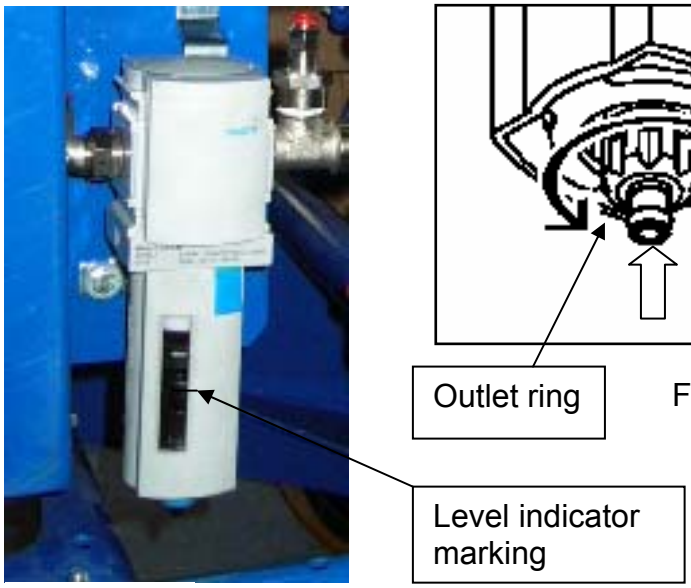


Fig. 7.10.1

Fig. 7.10.2

In case of less air flow as mentioned in paragraph 7.9, replace the filter of the waterseparator as following:

7

Push unlocking slide down and turn filter bowl in anti-clockwise direction. Then pull filter bowl away from the separator.

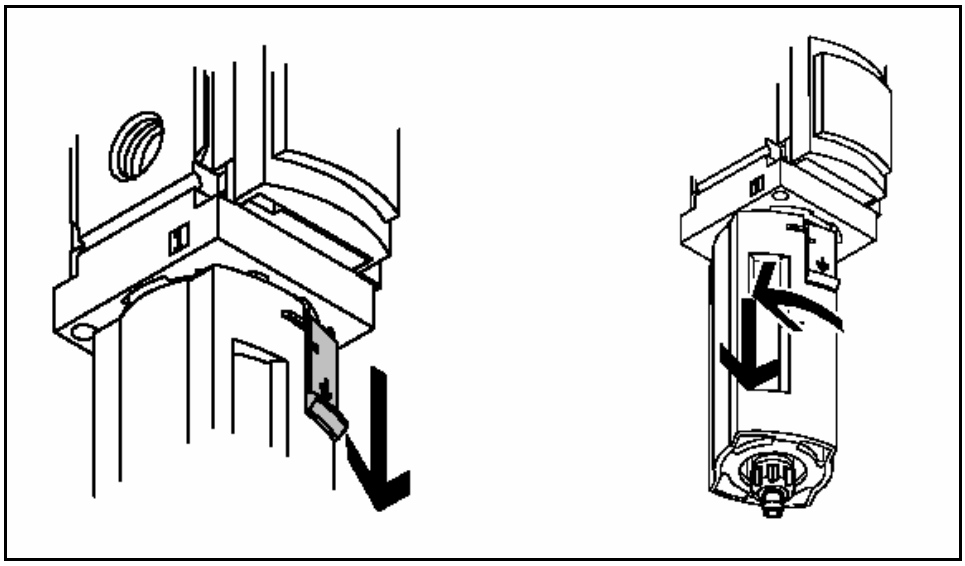


Fig. 7.10.3

Turn the filter screw loose and replace the dirty filter by a new one as shown on figure 7.10.4 . Hold the new filter element only at the lower end .

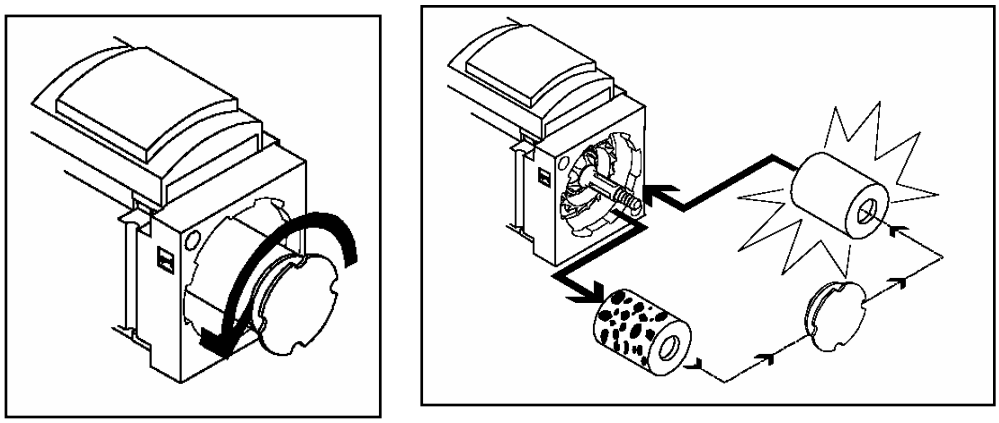


Fig. 7.10.4

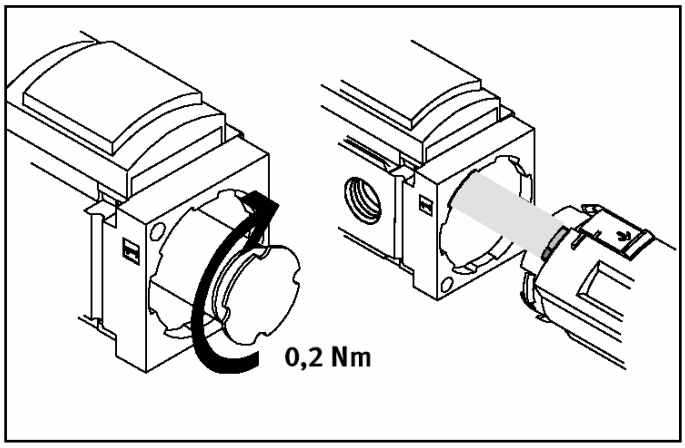


Fig. 7.10.5

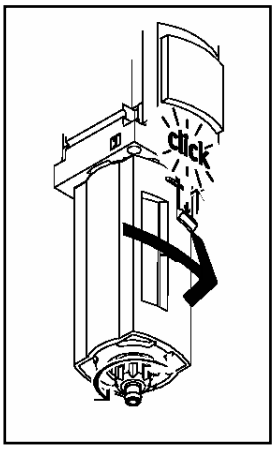


Fig. 7.10.6

Fasten the filter screw and place the filter bowl back . Make sure the locking pin points towards the large recess (see figure 7.10.5).

When fastening the filter bowl, make sure you hear a clear snap.

7.11 Compressor

The oil level and air filter of the compressor should periodically be inspected.
Replacement or cleaning of the air filter is depending on the environment in which the Dust collector is operating.

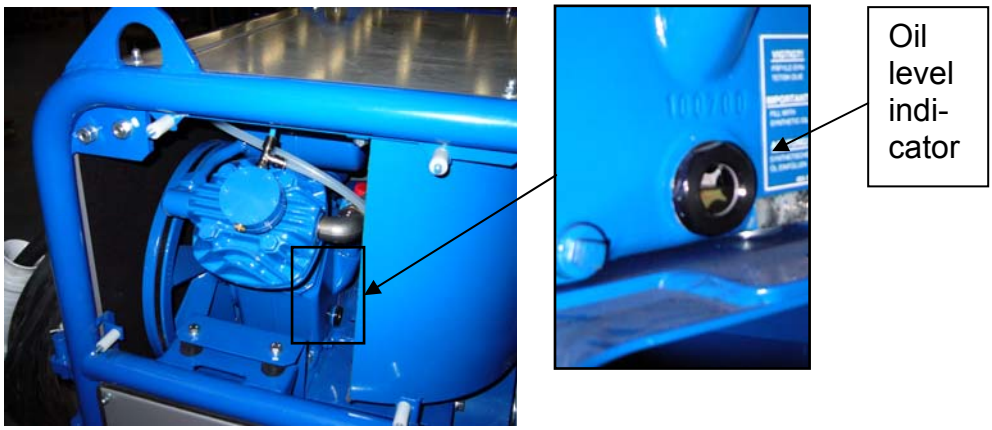


Fig.7.11.1

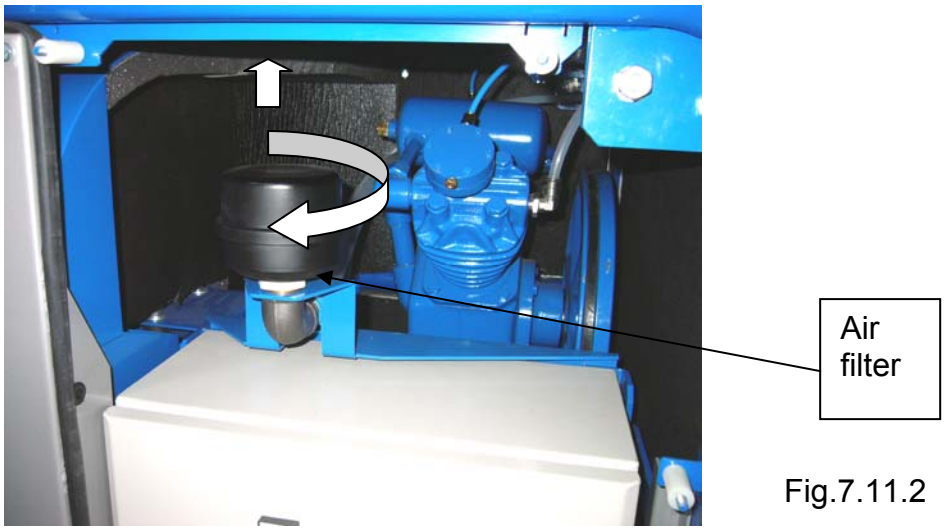


Fig.7.11.2

The height of the oil level oil level must lay on approximately half of the oil level indicator.

Use only oil especially mend for compressors, according specification C.T. 68 (ISO 68 – viscosity) .

7.12 Timer-unit

The timer unit controls the air pulse system. This unit is at delivery of the dust collector already programmed with regard to optimal filter cleaning.
If however doubts arise about settings, they can be checked. Always check whether the timer unit is switched on with the power button.

Indication on timer unit :

LED	State	Meaning of LED Panel Display
1	Steady ON	Pulse Time (0.01 - 9.99 sec) The electrical on time of the valves
2	Steady ON	Pause Time (1 - 999 sec) The time that the system will pause between firing the valves
3	Steady ON	Number Valve Selection The number of valves on the system
4	Steady ON	Shut Down Cleaning (0 - 99 cycles)

1	Pulse time	0.25	sec
2	Pause time	15	sec
3	Number valve selection	3	valves
4	Shut down cleaning	50	cycles

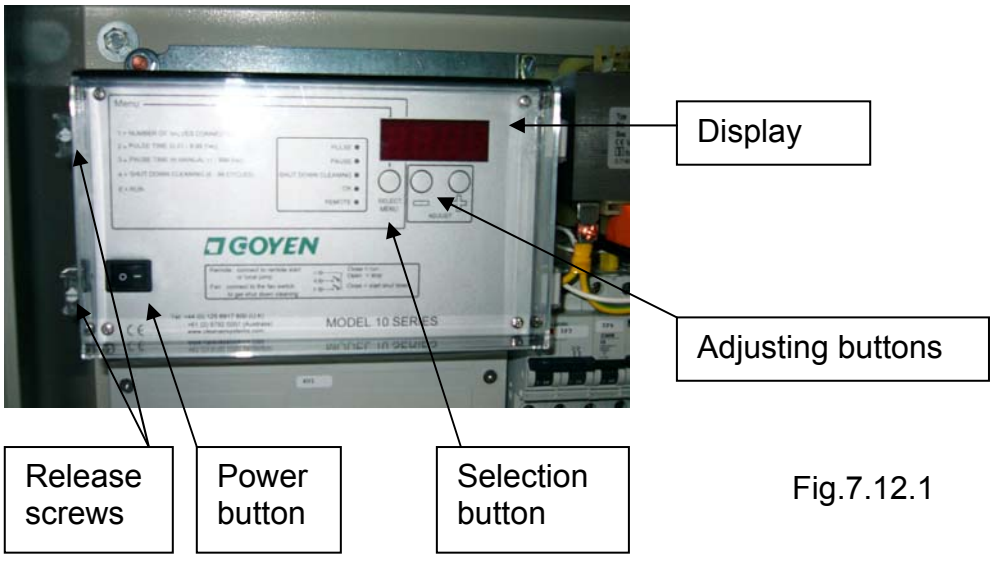


Fig.7.12.1

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

7

Contents Chapter 8

8.1 Electric circuit diagrams 655DC – EC - version

PROJECT Client : BLASTRAC BV Name : 655DC Dust Collector	SUPPLIER Draw.number : PJ04.02431T1A Order number :	DATA Arch.number : PJ04.02431T1A Calc. number : Status : For Approval	Start of project : 23.09.2004 Latest change : 21.03.2005 (RJO)

Particulars:

Supplier	: BLASTRAC BV
Contact	:
Telephone	: +31(0)30-6018866
Telefax	: +31(0)30-6018333
E-MAIL	:

Highest page number : 10
Number of pages : 10

8

Table of contents

8

Wire color:

Main-voltage:

L1	-Black
L2	-Black
L3	-Black
N	-Light blue
PE / ⏚	-Yellow / Green

Control-voltage alternating-voltage (AC)

Phase	-Red
Hook-up wire	-Red
Zero	-Violet

Control-voltage direct-voltage (DC)

(+)	-Dark blue
Hook-up wire	-Dark blue
(-)	-Grey

Potential free and stranger-voltage:

Potential free	-Orange
Test lead	-White

Symbol code explanation:

DP 5 Q 1

- DP — Group (in case used)
- 5 — Page number
- Q — Symbol letter
- 1 — Consecutive numbering

Archive number explanation:

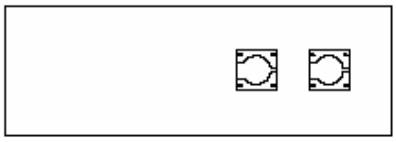
PJ01.01234T1A

- PJ01.01234 — Archive number
- T — Serial number
- 1 — Revision letter
- A

Pushbutton NO / NC
Rotary switch NO / NC
Contact NO / NC
NO Contact Cut-in delayed
NC Contact Cut-in delayed
NO Contact Drop-out delayed
NC Contact Drop-out delayed
Emergency stop NC
Contact NO / NC Thermal
Key switch NO / NC
Thermostat NO / NC
Pressure switch NO / NC
Level switch NO / NC
Relay
Relay Time delayed on drop-out
Relay Time delayed on pick-up
Relay Impulse
Ammeter
Voltmeter
Working hour counter
Current coil
Motor
Pilot light
Horn
Valve
Transformer
Direct voltage supply
Terminal clamps
Fuses
Fuse terminal
Earth-leakage switch Earth-leakage protection
Installation automatic Short-circuit and overcurrent protection
Autotransformer
Main switch
Fuses load divider
Diode module
Resistance
Motor safety switch
Final switch NO / NC

Mounting plate
M

Rightside-view
R



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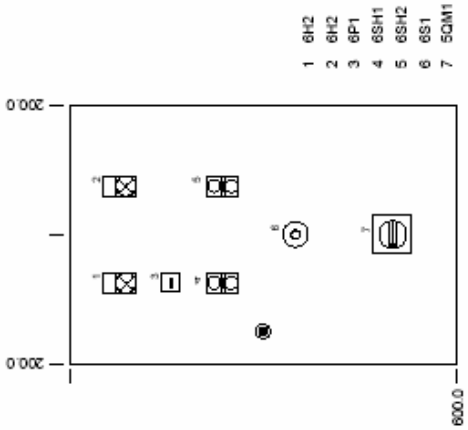
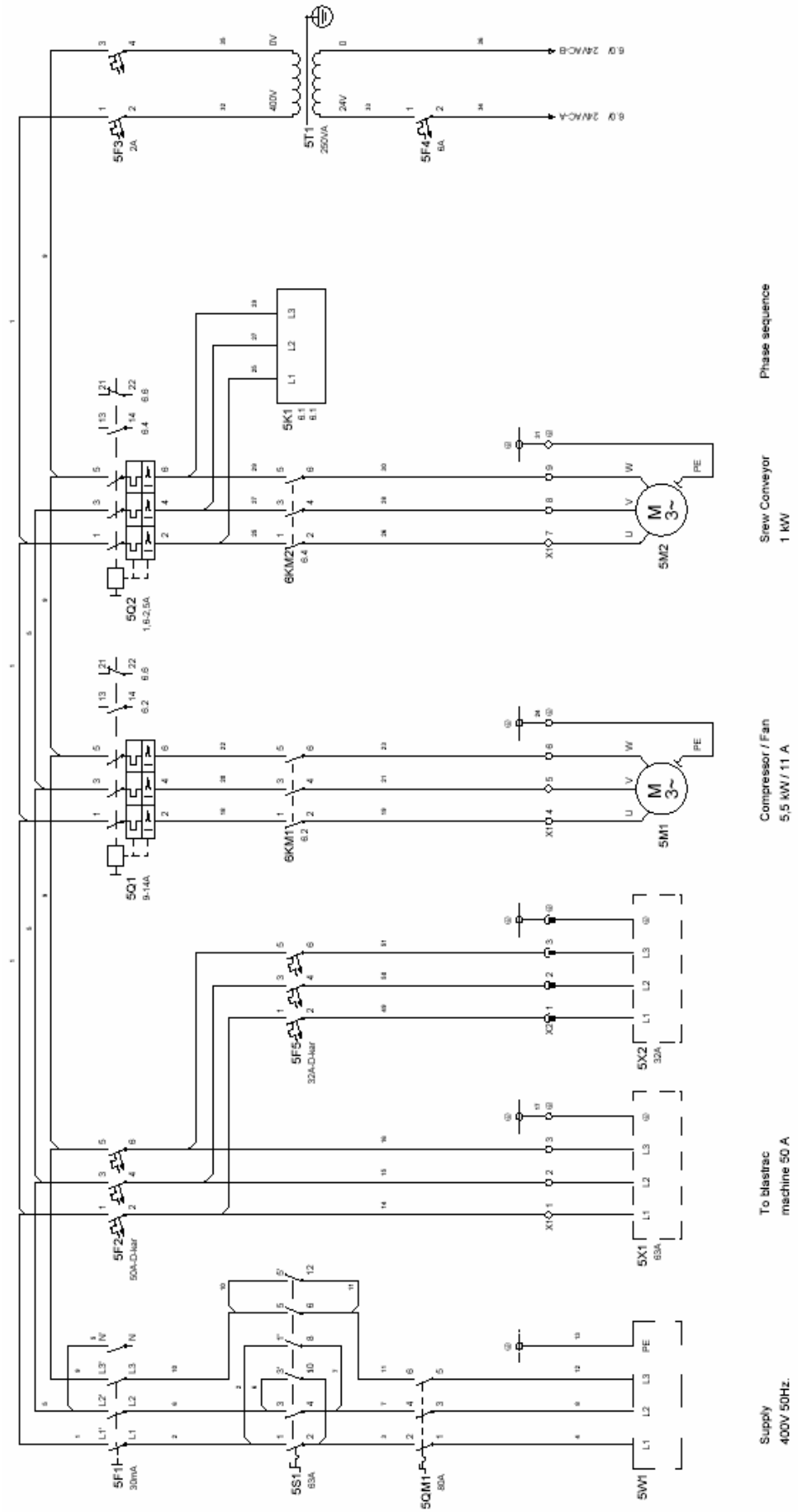
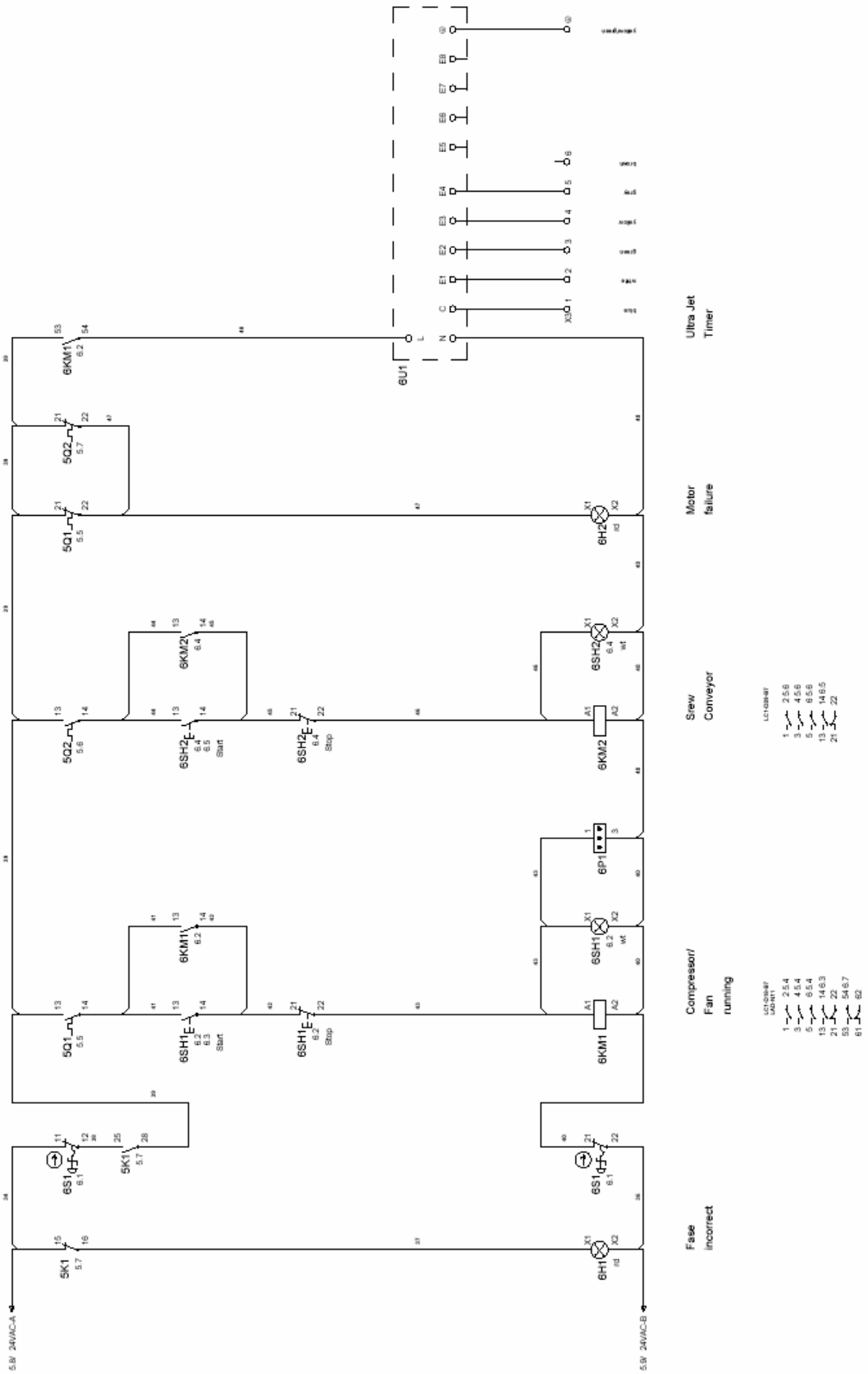
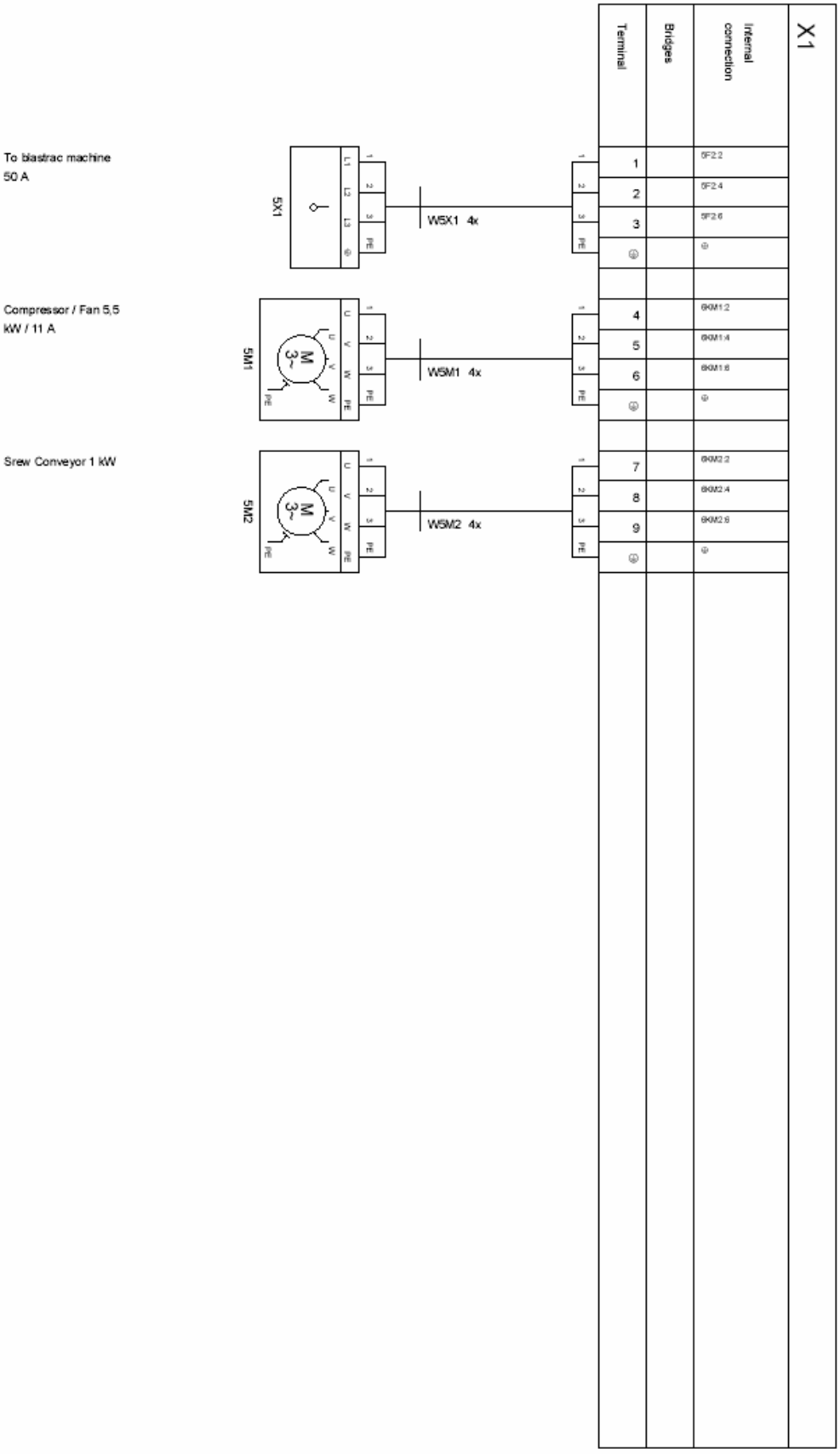
Front view
F

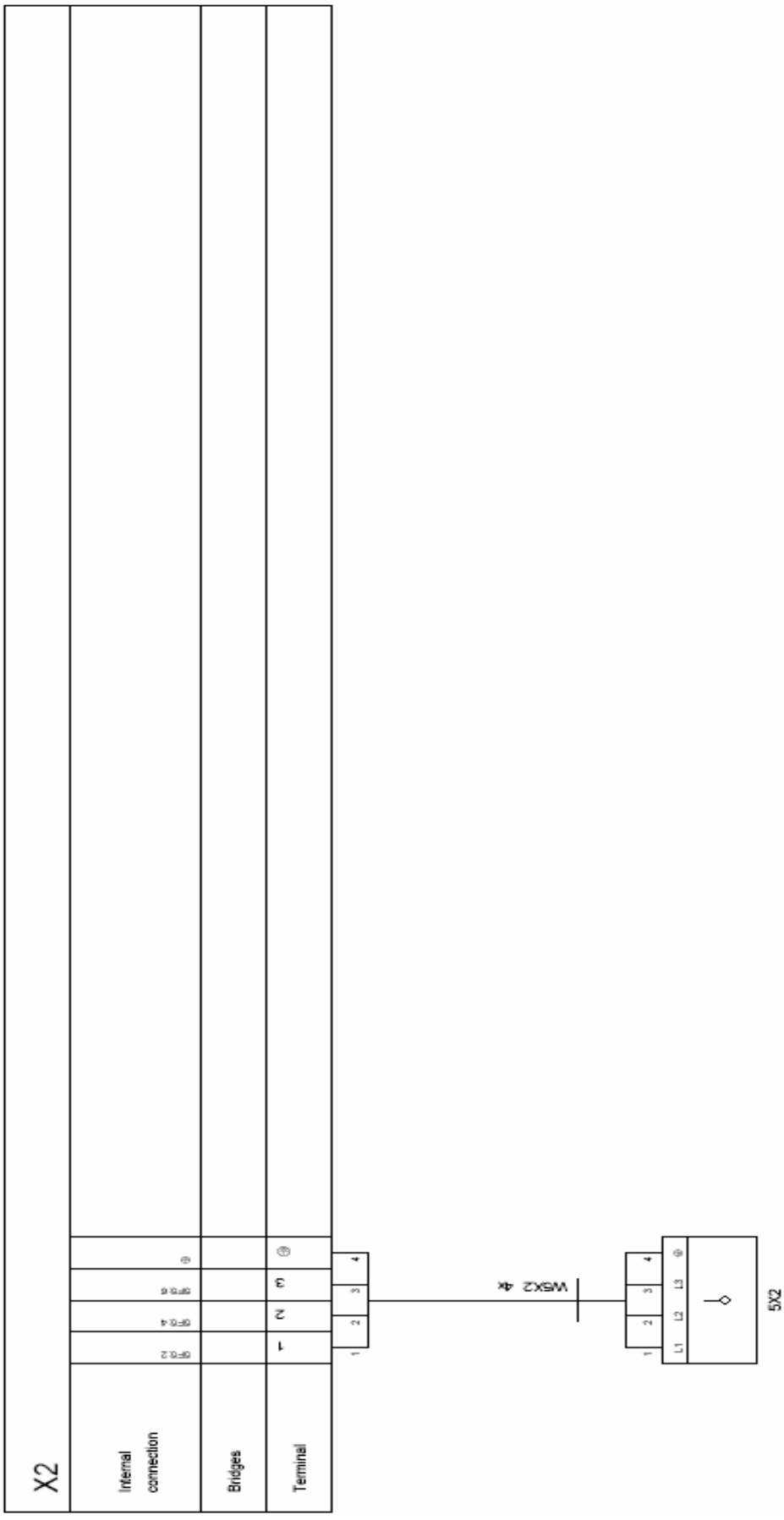



Phase sequence
Srew Conveyor
1 kW
Compressor / Fan
5,5 kW / 11 A
To blastrac
machine 50 A
Supply
400V 50Hz.


6U1
Ultra Jet Timer
6KM1
5Q2
5Q1
6H2
Motor failure
6KM2
6SH2
5Q2
6SH2E
6KM2
Srew Conveyor
6P1
6KM1
6SH1
5Q1
6SH1E
6KM1
Compressor/ Fan running
6S1
5K1
6H1
Fase incorrect
5.6V 24VAC-A
5.6V 24VAC-B

8


To blastrac machine
50 A
5X1
W5X1 4x
Compressor / Fan 5,5
kW / 11 A
5M1
W5M1 4x
Srew Conveyor 1 kW
5M2
W5M2 4x
Terminal
Bridges
Internal connection
X1
1
2
3
4
5
6
7
8
9



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X3

Terminal	Bridges	Internal connection
1		6U1:C
2		6U1:E1
3		6U1:E2
4		6U1:E3
5		6U1:E4
6		
⏚		6U1:⏚

8.2 Electric circuit diagrams 655DC – UL - version

Particulars:

PROJECT
Client : BLASTRAC BV
Name : 655DC UL Dust Collector

SUPPLIER
Draw.number : PJ04.02500T1A
Order number :

Supplier : BLASTRAC BV
Contact :
Telephone : +31(0)30-6018866
Telefax : +31(0)30-6018333
E-MAIL :

DATA
Arch.number : PJ04.02500T1A
Calc. number :
Status : As Built

Start of project : 23.09.2004
Latest change : 26.04.2005 (GKU)

Highest page number : 7
Number of pages : 8

8

Table of contents

8

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Phase	-Red
Hook-up wire	-Red
Zero	-Violet

Control-voltage direct-voltage (DC)

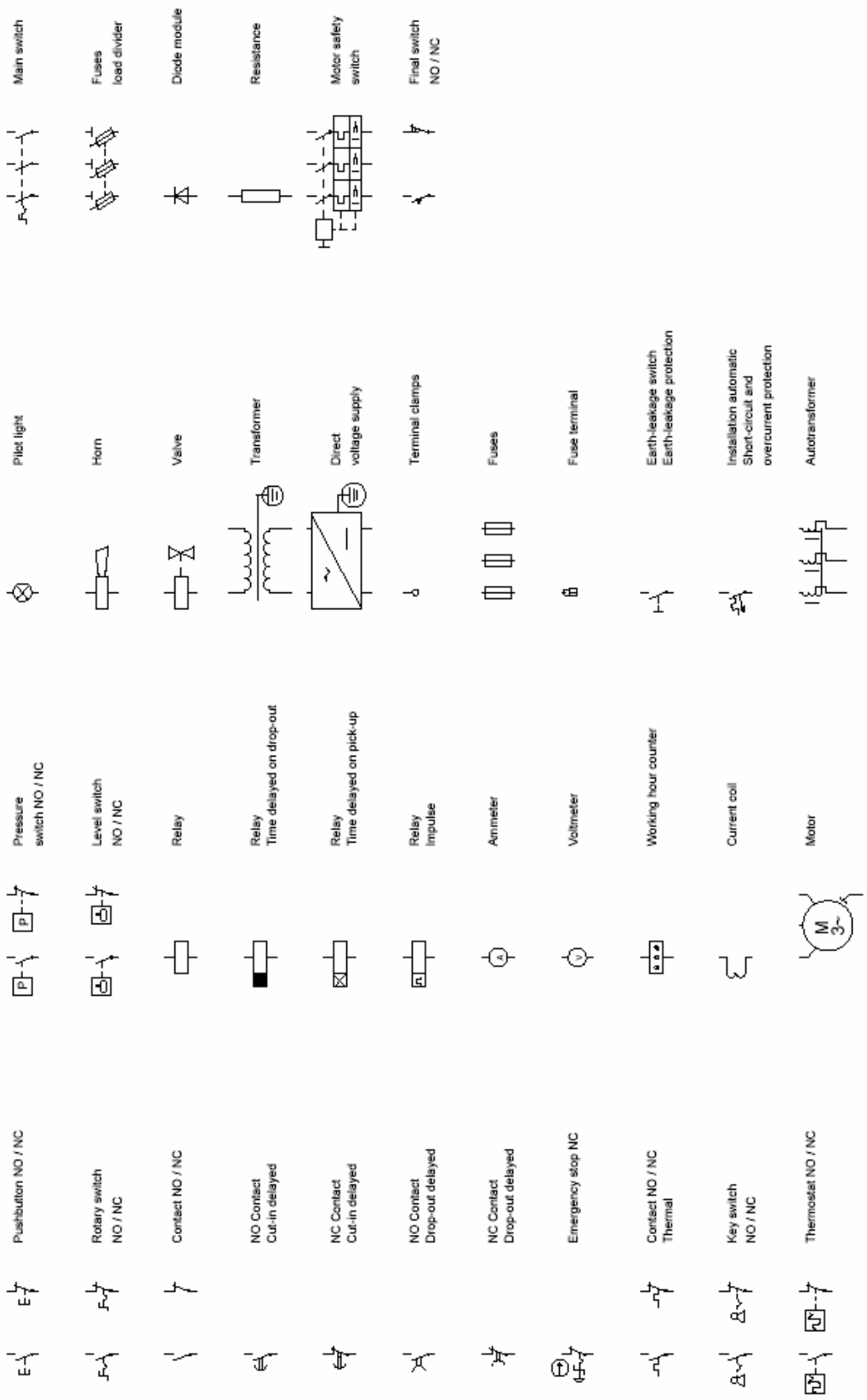
(+)	-Dark blue
Hook-up wire	-Dark blue
(-)	-Grey

Potential free and stranger-voltage:

Potential free	-Orange
Test lead	-White

Symbol code explanation:

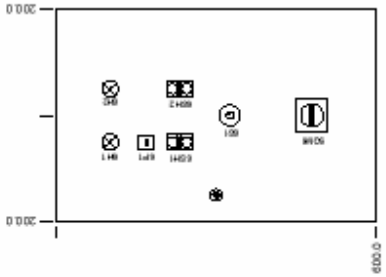
Archive number explanation:


Pushbutton NO / NC
Rotary switch NO / NC
Contact NO / NC
NO Contact Cut-in delayed
NC Contact Cut-in delayed
NO Contact Drop-out delayed
NC Contact Drop-out delayed
Emergency stop NC
Contact NO / NC Thermal
Key switch NO / NC
Thermostat NO / NC
Pressure switch NO / NC
Level switch NO / NC
Relay
Relay Time delayed on drop-out
Relay Time delayed on pick-up
Relay Impulse
Ammeter
Voltmeter
Working hour counter
Current coil
Motor
Pilot light
Horn
Valve
Transformer
Direct voltage supply
Terminal clamps
Fuses
Fuse terminal
Earth-leakage switch Earth-leakage protection
Installation automatic Short-circuit and overcurrent protection
Autotransformer
Main switch
Fuses load divider
Diode module
Resistance
Motor safety switch
Final switch NO / NC

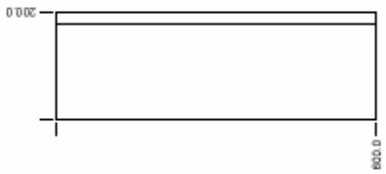
Mounting plate M

Rightside-view R

Front view F



Leftside-view L



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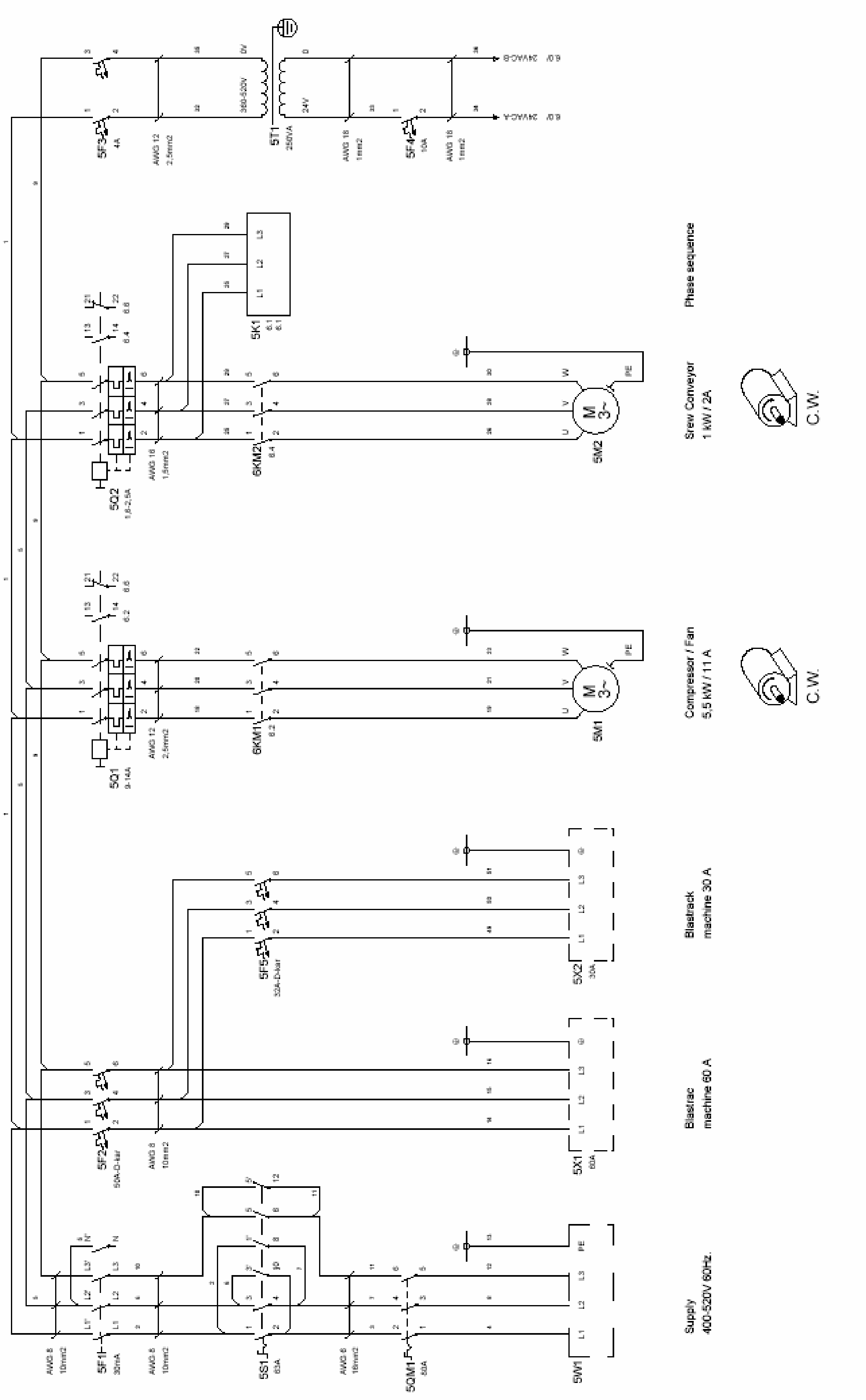
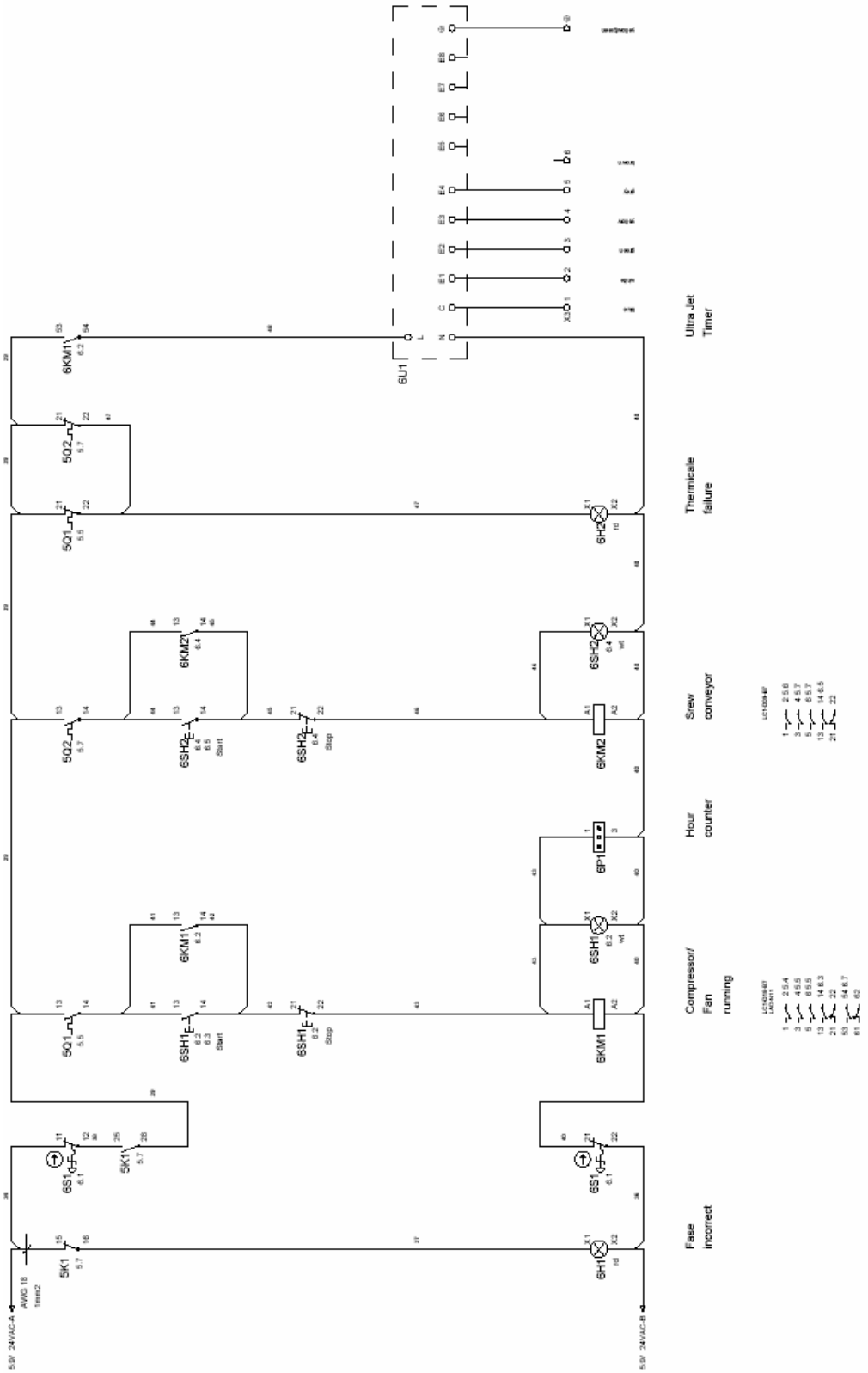

Phase sequence
Srew Conveyor
1 kW / 2A
C.W.
Compressor / Fan
5,5 kW / 11 A
C.W.
Blastrack
machine 30 A
Blastrac
machine 60 A
Supply
400-520V 60Hz.
5T1
5K1
5Q2
5Q1
6KM2
6KM1
5M2
5M1
5F3
5F4
5F5
5F2
5F1
5S1
5QM1
5X2
5X1
5W1


6U1
Ultra Jet Timer
6KM1
5Q2
5Q1
6H2
Thermicale failure
6KM2
6SH2
Start
Stop
6SH2
Srew conveyor
6P1
Hour counter
6KM1
6SH1
Start
6SH1
Stop
Compressor/ Fan running
6S1
5K1
6S1
5K1
6H1
Fase incorrect
5W 24VAC-A
AWG 18
5W 24VAC-B

8

X3

Terminal	Bridges	Internal connection
1		6J1:C
2		6J1:E1
3		6J1:E2
4		6J1:E3
5		6J1:E4
6		
⏚		6J1:⏚

8

Contents Chapter 9

9.1 Fault diagnosis - dust collector

Prior to any repair works on the equipment or its drives the equipment must be secured against unintentional switching-on. Put the machine to its Safety off position.

Fault	Possible cause	Remedy
Unusual noises.	To little clearance or wrong adjustment of the rotating parts.	Check the adjustment of the rotating parts. Check screws and all parts for tight seat.
To low pressure or any pressure.	Check the whole pneumatic system for leaks.	Stop up the leaks or replace the damaged components.
		Check settings of control valve or replace it when defect.
		Replace filter element of waterseparator when dirty .
	Check the tension of the V-belt compressor.	Stretch the V-belt
Any suction power.	Dirty filter cartridge.	Clean or replace the filter cartridge.
	Check the tension of the V-belt fan.	Stretch the V-belt.
	Foreign airs through leaks in the hopper or in the housing cover seal.	Replace the seal.
Bad or any dedusting.	To low air pressure in pulse air system.	See over.
	Dedusting timer card or solenoid valve defective.	Replace defective parts.

9

Loud running noises.	It is missing grease in fan bearing. Silencer assembly defective. Oil level of compressor to low	Lubricate the fan bearing. Replace it. Fill compressor oil level up.

9.2 Fault diagnosis electrical-system

Prior to any repair works on the equipment or its drives the equipment must be secured against unintentional switching-on. Put the machine to its Safety off position..

Fault	Possible cause	Remedy
Fan/ compressor does not switch on.	Motor protections switch triggered.	Check the mains power supply and next switch on again. Check voltage and existence of 3 fases.
Control lamp for motor protection switch flashes.	Motor protections switch triggered. Overload current because of defective equipment (Motor, etc).	Switch on again the motor protections. Have the unit checked by an electrician.
Control switches off while working.	Dust collector safety fuse or residual current operated device has triggered. Connection cable is defective. Main switch of the dust collector switches off due to overload.	Have the unit checked by an electrician. Replace the cable. Main switch "Off", with fault, have the unit checked by an electrician.

9

Note: If the motor protection switches off the blast wheel motor, triggered by overload, they can be switched on again after a short cooling down period.

Contents Chapter 10

Spare parts

10.1 Spare parts list for dust collector 655DC

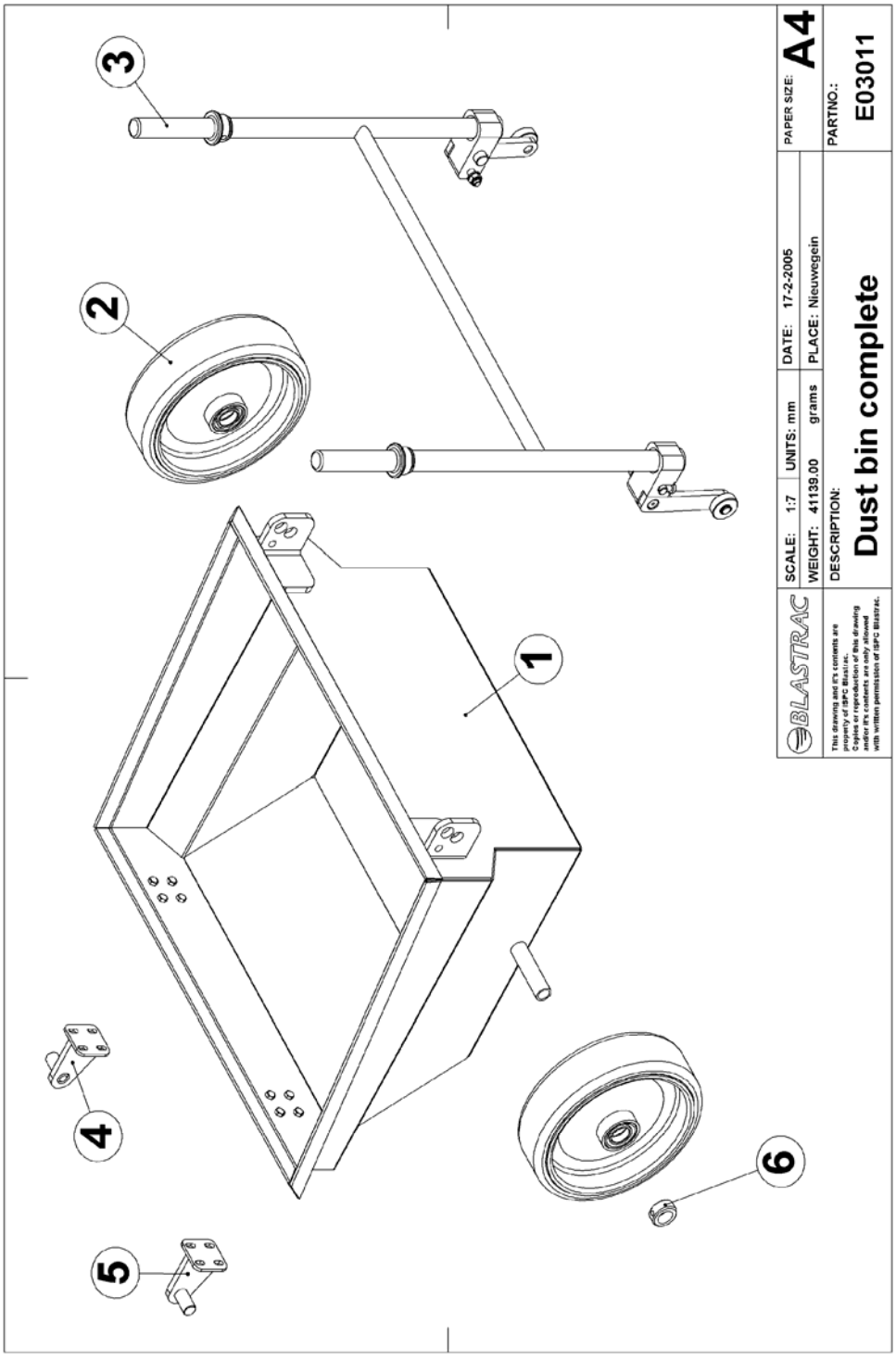


Fig.10.1

Dustbin complete

E03011 – DUSTBIN COMPLETE			
ITEM	**PART-NO.**	**DESCRIPTION**	**CTY.**
1	E03012	DUST BIN	1
2	B20969	WHEEL	2
3	E00890	HANDLE COMPLETE	1
4	E03013	DUST BIN HOLDER LEFT	1
5	E03014	DUST BIN HOLDER RIGHT	1
6		ADJUSTING RING WITH SCREW	2

Spare parts

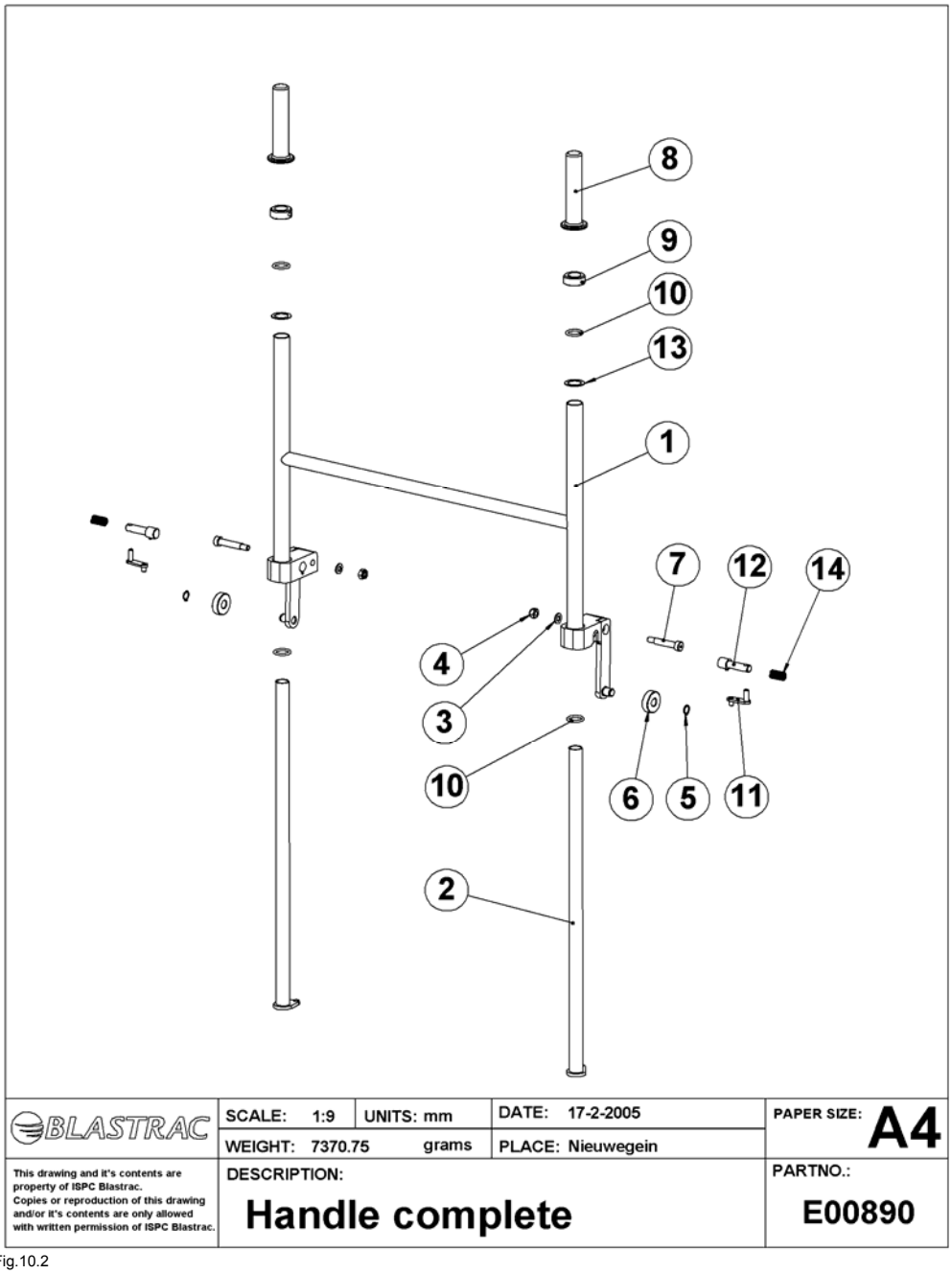


Fig.10.2

10

Handle complete

E00890 – HANDLE COMPLETE			
ITEM	**PART-NO.**	**DESCRIPTION**	**QTY.**
1	E00891	HANDLE	1
2	E00895	INNER HANDLE	2
3		M10 WASHER	2
4		M10 NUT PLASTIC INSERT NUT	2
5		CIRCLIP DIN 471 - 15 X 1	2
6	E01304	BALL BEARING	2
7	E03113	HEXAGON SOCKET HEAD SHOULDERS SCREW M10 -12X50	2
8	453290	HANDLE GRIP	2
9		ADJUSTING RING WITH SCREW	2
10	E03081	O – RING Ø25 X 4	2
11	E00896	ARM FOR LOCKING PIN	2
12	E00897	LOCKING PIN	2
13		SHIM 26 X 37 X 1	2
14	E03072	SPRING	2

Spare parts

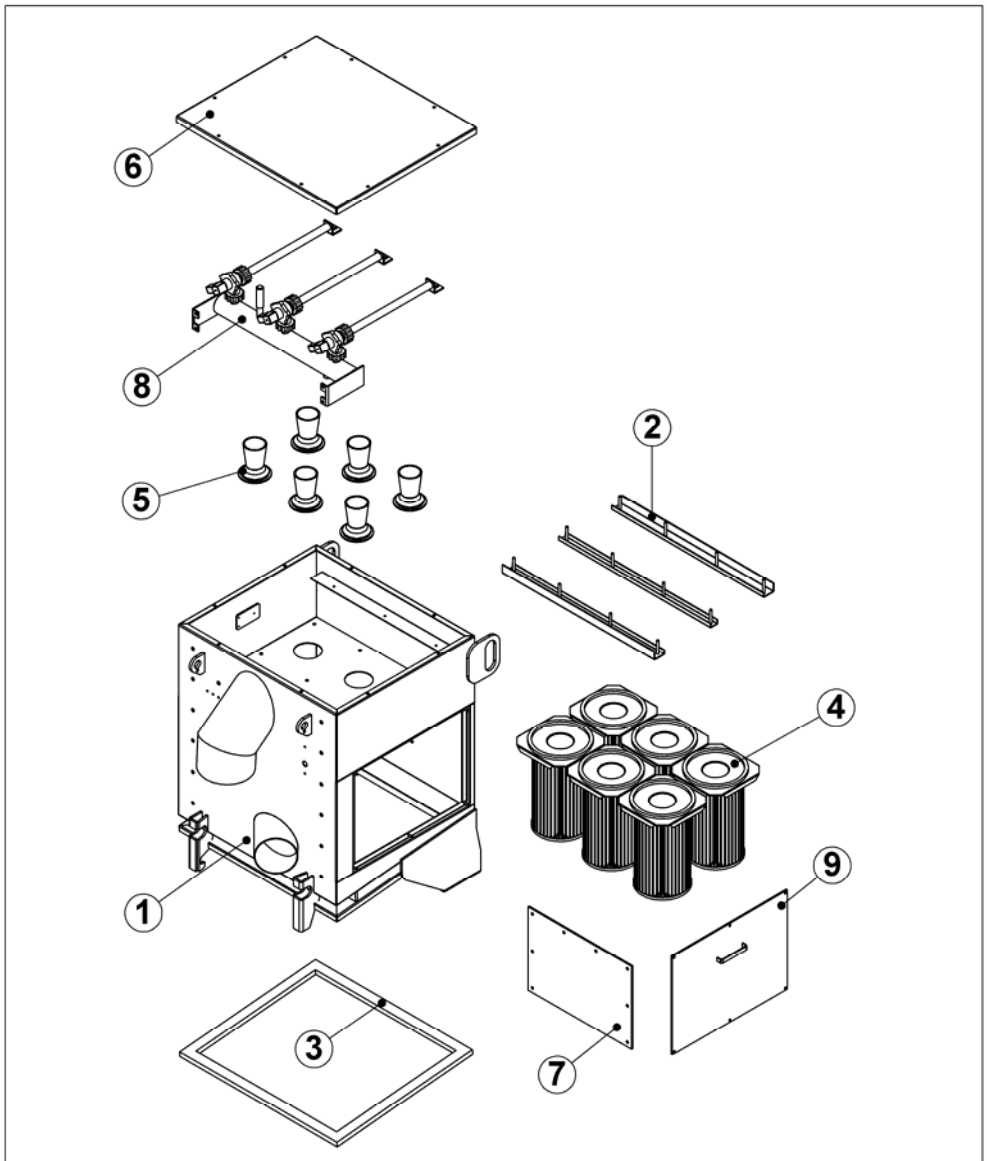
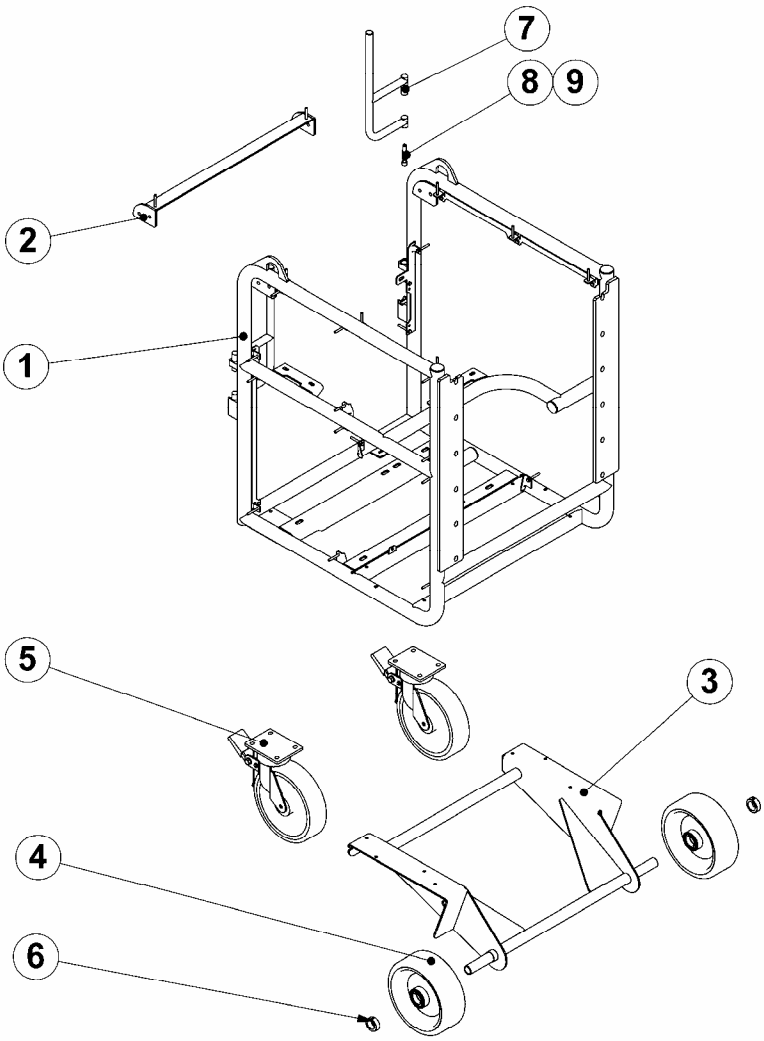


Fig.10.3

10

Filterhousing

E03108 - FILTERHOUSING			
ITEM	**PART-NO.**	**DESCRIPTION**	**QTY.**
1	E03015	FILTER BODY	1
2	E03016	CARTRIDGE LIFTER SYSTEM	1
3	E01309	SEAL	3M
4	E10218	CARTRIDGE	6
5	E14028	VENTURI	6
6	E03020	COVER PLATE	1
7	E00881	RUBBER IMPACT PLATE	1
8	E03031	PULSE SYSTEM COMPLETE	1
9	E03018	SIDE DOOR	1



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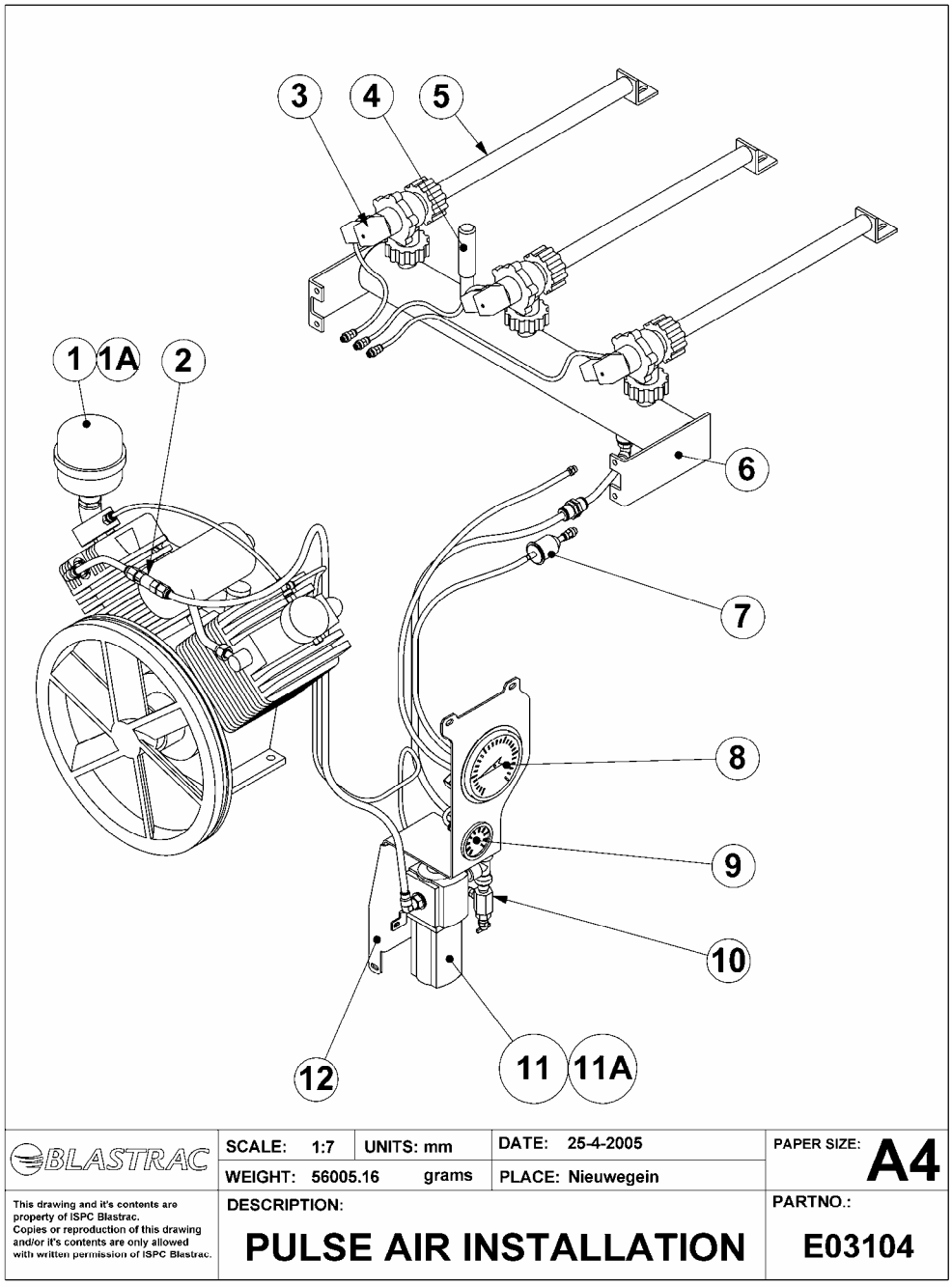
This drawing and it's contents are property of ISPC Blastrac. Copies or reproduction of this drawing and/or it's contents are only allowed with written permission of ISPC Blastrac.	DESCRIPTION: Tube section			PARTNO.: E03068

Fig.10.4

Tube section

E03068 – TUBE SECTION			
ITEM	**PART-NO.**	**DESCRIPTION**	**QTY.**
1	E03063	TUBE FRAME	1
2	E03082	CABLE SUPPORT	2
3	E03067	STIFFENER BEAM	1
4	E10202	WHEEL	2
5	E10207	SWIVEL CASTOR WITH BRAKE	2
6		ADJUSTING RING WITH SCREW	2
7	E10407	FRONT AXIS DEVICE UNIT	1
8	E03119	SPRING	2
9		M10X60 HEX.SOCKET HEAD CAP	2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2
6
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8
9
10
12
11
11A
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UNITS: mm
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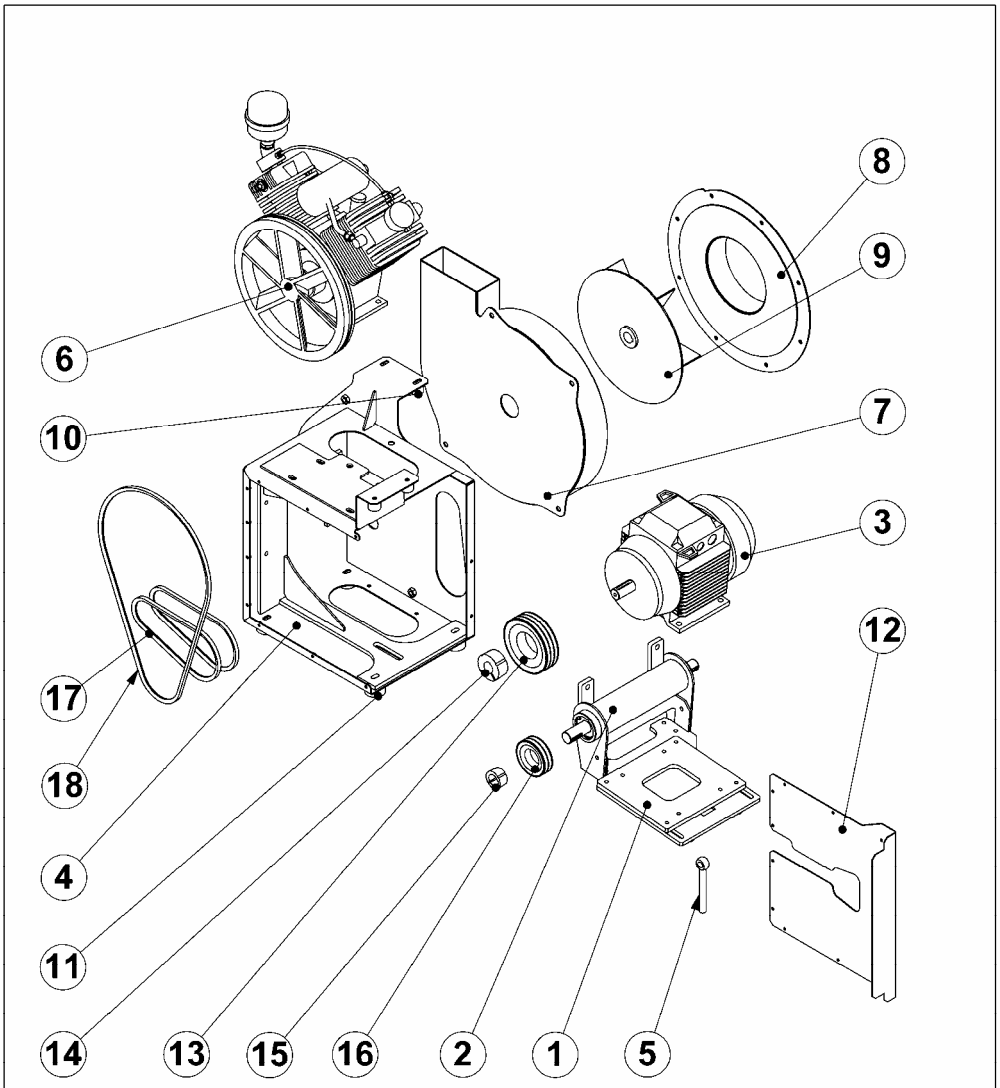
WEIGHT: 56005.16 grams
PLACE: Nieuwegein
This drawing and it's contents are property of ISPC Blastrac. Copies or reproduction of this drawing and/or it's contents are only allowed with written permission of ISPC Blastrac.
DESCRIPTION:
PULSE AIR INSTALLATION
PARTNO.:
E03104

Fig.10.5

Pulse system

E03104 – PULSE AIR INSTALLATION			
ITEM	**PART-NO.**	**DESCRIPTION**	**QTY.**
1	001244	AIR FILTER	1
1A	656384	FILTER ELEMENT ONLY	1
2	B21750	NON RETURN VALVE	1
3	E01300	AIR VALVE	3
4	E01303	SAFETY VALVE	1
5	E03033	PULSE TUBE	3
6	E03032	TANK PULSE SYSTEM	1
7	2381-365	FILTER VACUÜM GAUGE	1
8	491837	VACUÜM GAUGE	1
9	E10349	MANOMETER	1
10	490691	CONTROL VALVE COMPRESSOR	1
11	E00635	WATER SEPARATOR	1
11A	E00635/1	FILTER ELEMENT FOR WATER SEPARATOR	1
12	E03075	MOUNT PLATE	1



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This drawing and it's contents are property of ISPC Blastrac. Copies or reproduction of this drawing and/or it's contents are only allowed with written permission of ISPC Blastrac.	DESCRIPTION: Ventilation unit			PARTNO.: E03064

10

Fig. 10.6

Ventilation unit

E03064 – VENTILATION UNIT				
ITEM	PART-NO.		DESCRIPTION	QTY.
	50 HZ	60 HZ		
1	E03069		HINGE PLATE ASSY	1
2	E00999		BEARING UNIT COMPLETE	1
3	E10213		MOTOR 5.5 KW	1
4	E03071		MOTOR HOUSING	1
5			M16 X 140 EYE BOLT	1
6	490693		COMPRESSOR	1
7	E03142		FAN HOUSING	1
8	E03150		FANCOVER	1
9	E00444		FAN IMPELLER	1
10	E10422		SHOCK ABSORBER	4
11	E10418		SHOCK ABSORBER	4
12	E03077		PROTECTION PLATE	1
13	E10413	E03173	BELT PULLEY	1
14	E10415		TAPER LOCK BUSH	1
15	B22078		TAPER LOCK BUSH	1
16	DG14		BELT PULLEY	1
17	E03103		V-BELT	2
18	E03102		V-BELT	1

Spare parts

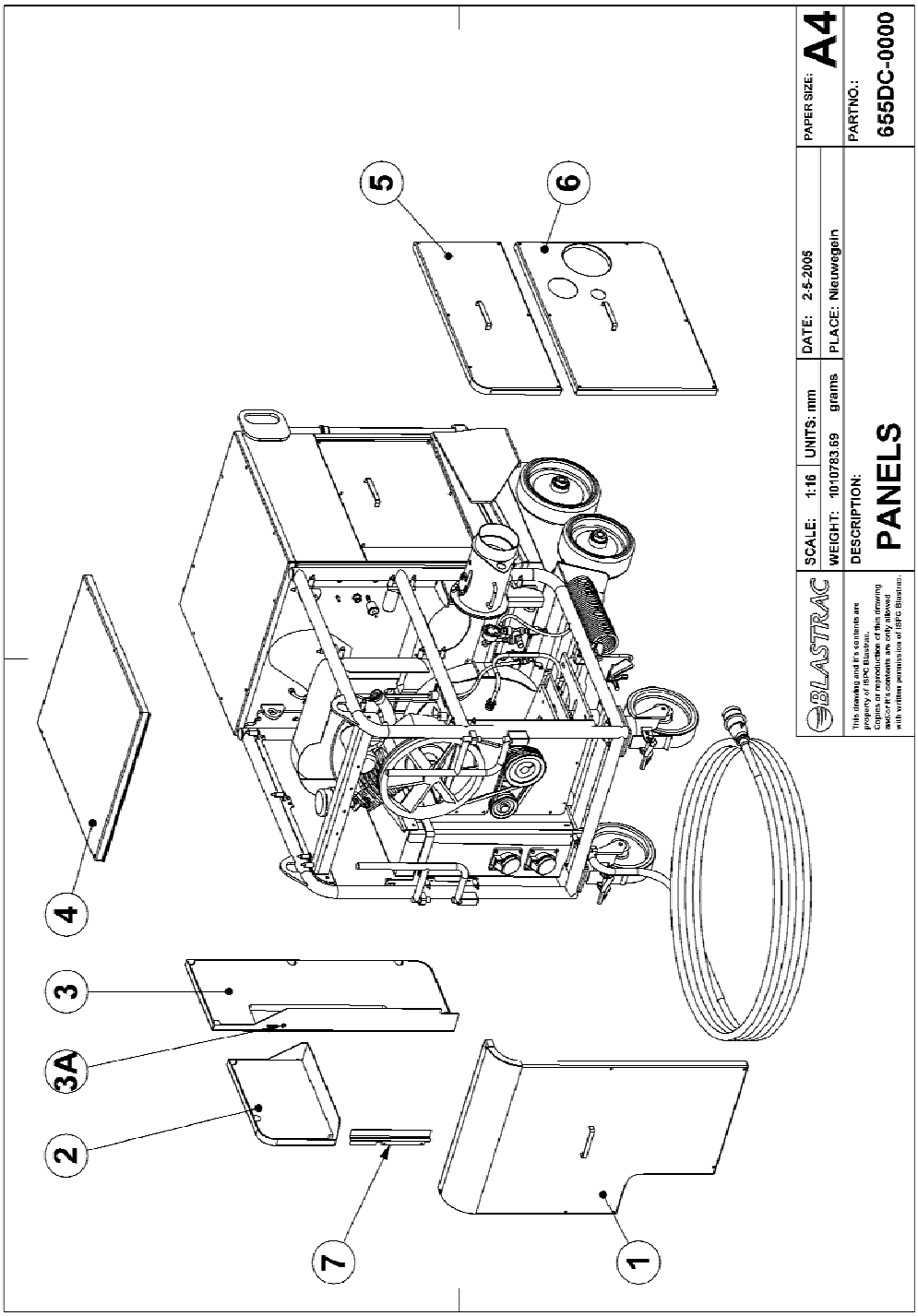
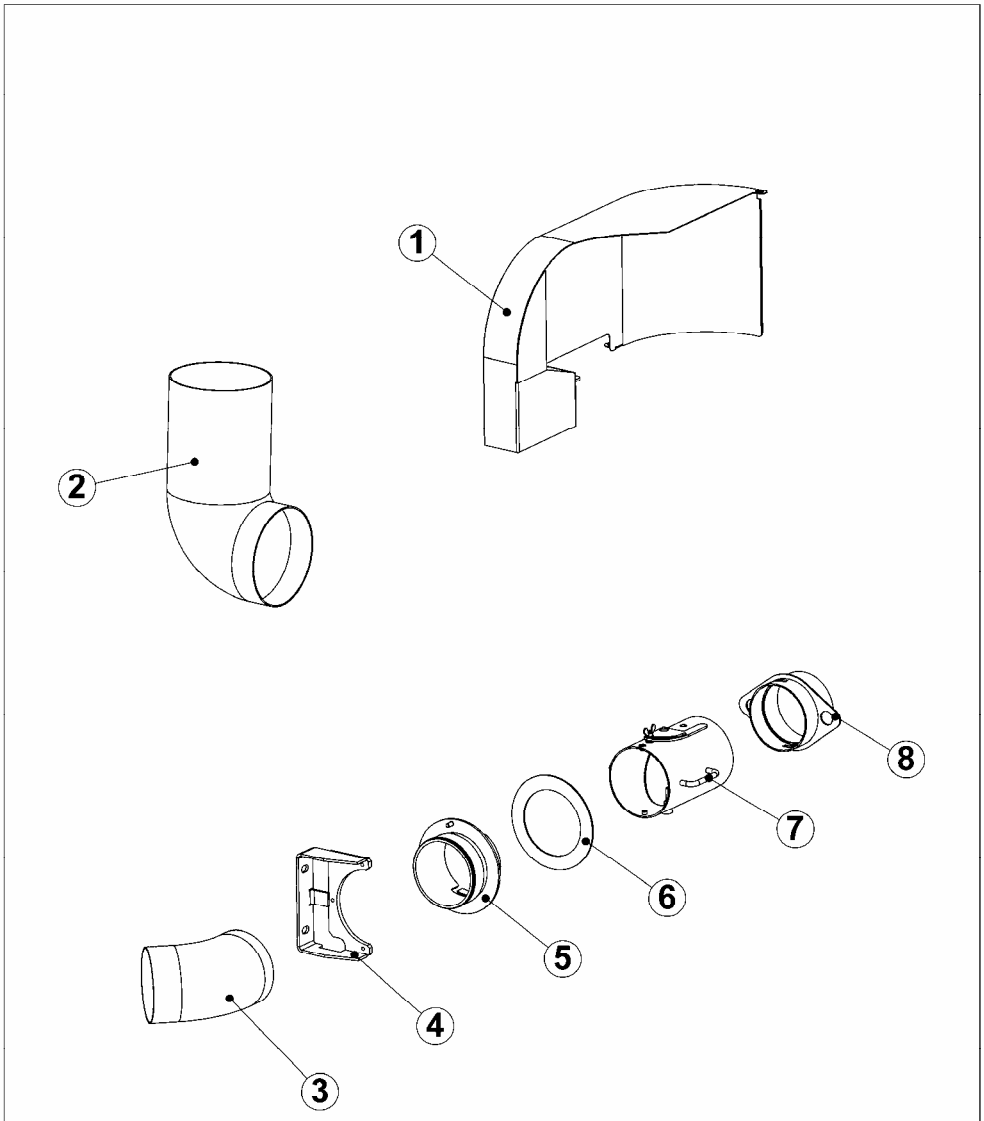


Fig. 10.7

Panels

655DC-0000 - PANELS			
Item	**Part-No.**	**Description**	**Qty..**
1	E03091	PANEL COMPRESSOR COMPLETE	1
2	E03093	PANEL BOX COVER COMPLETE	1
3	E03094	PANEL RIGHT COMPLETE	1
3A	E03106	GROMMET	1
4	E03086	PANEL TOP COMPLETE	1
5	E03098	PANEL LEFT UPPER COMPLETE	1
6	E03097	PANEL LEFT LOWER COMPLETE	1
7	E03092	COVER ANGLE	1

Spare parts



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This drawing and it's contents are property of ISPC Blastrac. Copies or reproduction of this drawing and/or it's contents are only allowed with written permission of ISPC Blastrac.	DESCRIPTION: AIRCONNECTIONS & SILENCER			PARTNO.: 655DC-0000

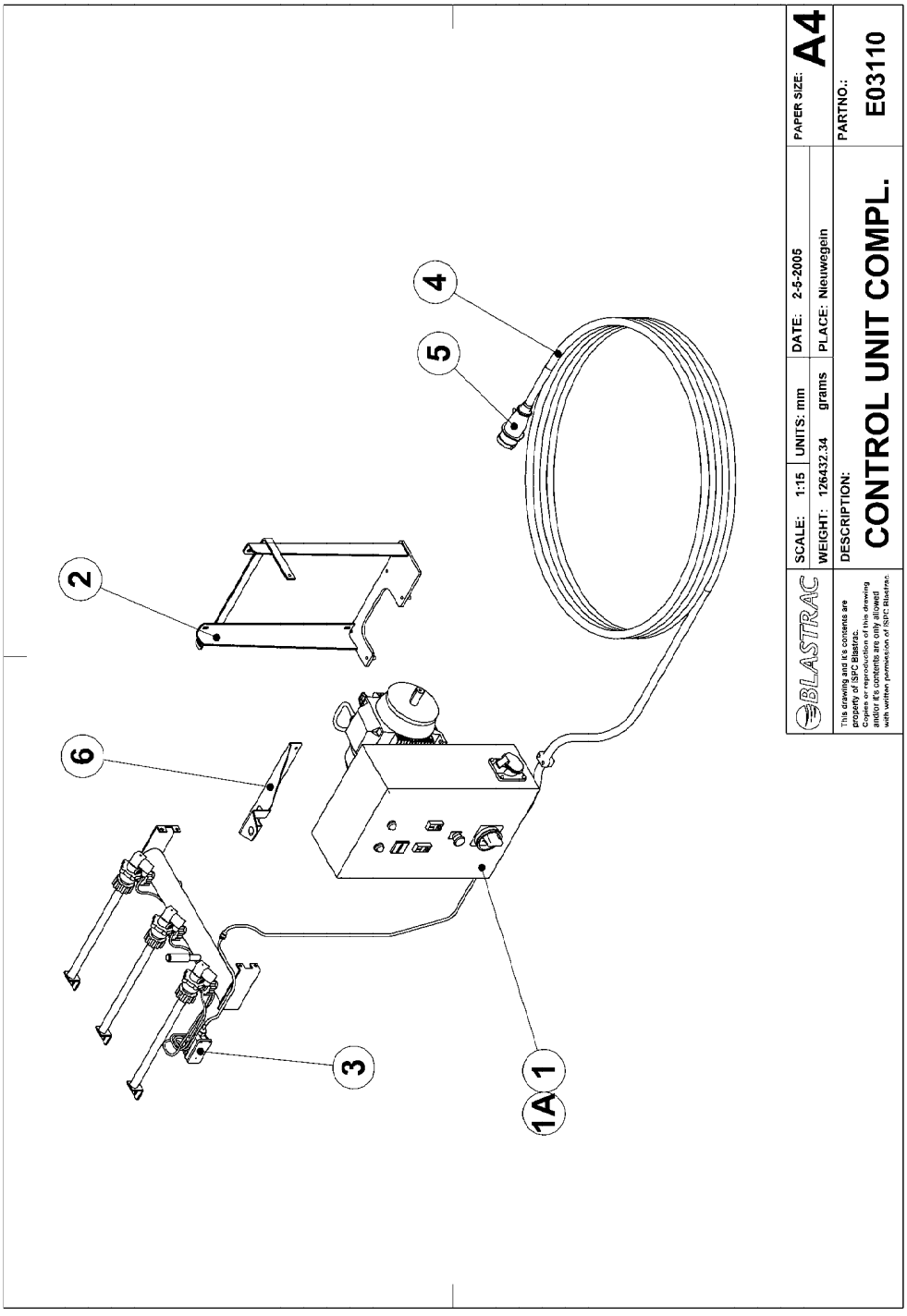
Fig. 10.8

10

Airconnections & silencer

655DC-000 – AIRCONNECTIONS & SILENCER			
ITEM	**PART-NO.**	**DESCRIPTION**	**QTY.**
1	E03074	SILENCER	1
2	490706	CONNECTION HOSE 200 L=600	1
3	001112	CONNECTION HOSE 150 L=250	1
4	E03074	CONNECTION SUPPORT	1
5	E03083	CONNECTION PART	1
6	E03105	ADAPTER SEAL	1
7	E03096	VALVE COMPLETE	1
8	E03101	ADAPTER Ø150 - Ø130	1

Spare parts

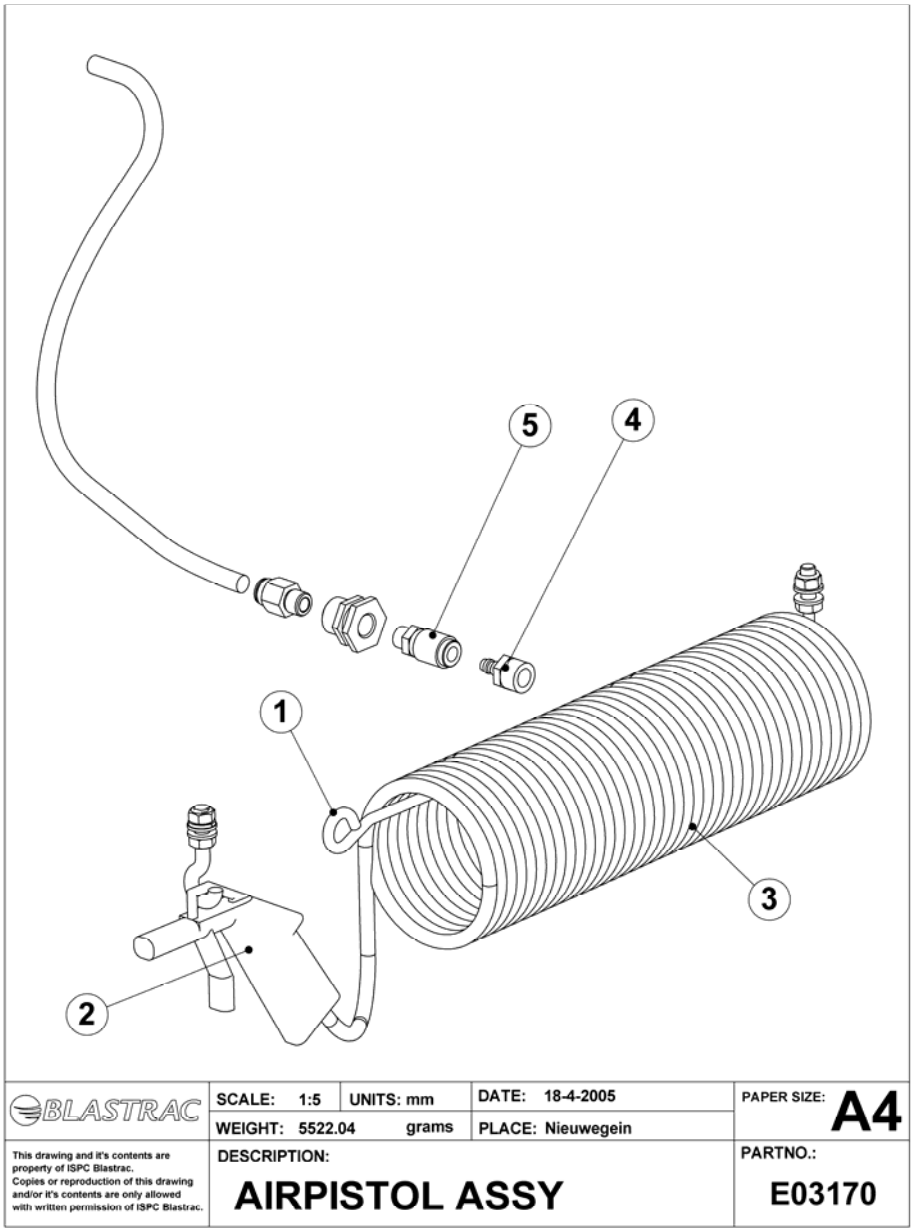


10

Fig.10.9

Control system

E03110 – CONTROL UNIT COMPLETE				
ITEM	PART-NO.		DESCRIPTION	QTY..
	50 Hz	60 Hz		
1	E10346	E03171	CONTROL PANEL	1
1A	E01301		TIMERUNIT	1
2	E03079		INSTR.PANEL SUPPORT	1
3	E03109		PULSE CABLE COMPLETE	1
4	999-3346/15	E00608	NEOPRENE CABLE (L=15 MTR.)	1
5	500-3195	INCLUDED I N E00608	PLUG	1
6	E03126		SUPPORT AIRFILTER	1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3
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DATE: 18-4-2005
PAPER SIZE: A4
WEIGHT: 5522.04 grams
PLACE: Nieuwegein
This drawing and it's contents are property of ISPC Blastrac. Copies or reproduction of this drawing and/or it's contents are only allowed with written permission of ISPC Blastrac.
DESCRIPTION:
AIRPISTOL ASSY
PARTNO.:
E03170

Fig.10.10

Air pistol

E03170 – AIRPISTOL ASSY			
ITEM	**PART-NO.**	**DESCRIPTION**	**QTY.**
1	E03160	HOSE CLIP	1
2	DA—9290.1	AIRPISTOL	1
3	DA—9290.2	AIRHOSE 6 MM. L 5 MTR.	1
4	E03168	MINI-QUICKCOUPLING	1
5	E03169	MINI-NIPPEL	1

Spare parts