

**LAVINA®**



# LAVINA® V32E USER MANUAL



Tech Support Line: 800-987-8403 | [www.superabrasive.com](http://www.superabrasive.com) | [info@superabrasive.us](mailto:info@superabrasive.us)



## Warranty Registration Card

Complete and submit this form within 30 days from the date of purchase. The registration is invalid without the machine serial number.

### Section 1: Customer Information

Customer name

Address

City

State and Zip Code

Phone #

Email

### Section 2: Machine Information

LAVINA model

Serial #

Purchase Date

Purchased From (distributor, dealer)

*Email: [warranty@superabrasive.us](mailto:warranty@superabrasive.us) / Fax: 706-658-0357  
Superabrasive Inc., 9411 Jackson Trail Rd, Hoschton, GA 30548*

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# 1. WARRANTY AND RETURNS

## 1.1 WARRANTY POLICY FOR LAVINA® V32E

If your warranty card is missing, contact your local distributor and request a warranty card, or visit us at [www.superabrasive.com](http://www.superabrasive.com) to download one. The customer is responsible for filling out the card and mailing it to the manufacturer's address as indicated on the card. To ensure registration and activation of warranty coverage, the warranty card must be mailed to the manufacturer within 30 days from date of purchase; failure to do so may void the warranty. Be sure to provide the manufacturer with all of the information requested, and most importantly with the distributor's name, machine serial number, and purchase date.

Superabrasive offers a guarantee on LAVINA® vacuums, covering manufacturing and material defects, for a period of 24 months from the date of purchase, as invoiced by Superabrasive. The following conditions pertain to this warranty:

- Applies only to the original owner and is not transferable.
- Vacuum must not be dismantled and tampered with in any way.
- This warranty does not cover any failures or defects caused by normal wear and tear, accidental damage, damage during transport, improper handling, repairs conducted by an unauthorized facility (without prior authorization by Superabrasive), or operation that is not in compliance with the instructions provided in this manual. Superabrasive denies all responsibility for damages or injuries, to any persons or objects, caused by improper operation of the vacuum unit.
- This warranty will become invalid in the event that equipment or accessories used on/with the vacuum unit are not supplied or approved by Superabrasive.
- Covered components proven defective will be repaired or replaced at no charge.
- This warranty does not apply to any repair of/to of proprietary parts, nor does it cover cleaning or general maintenance.
- This warranty does not apply to items with aftermarket alterations, changes, or modifications.
- This warranty is limited to repair or replacement of covered components and reasonable labor expenses.
- In the event of a warranty claim, the vacuum unit must be returned to Superabrasive, or an authorized facility, for a warranty investigation, and subsequent warranty repair or replacement.
- All warranty returns must be shipped freight prepaid.
- This warranty is in lieu of and excludes every condition of warranty not herein expressly set out and all liability for any form of consequential loss or damage is hereby expressly excluded.

The above warranty conditions may be changed only by Superabrasive. Superabrasive reserves the right to inspect and make a final decision on any machine returned under this warranty. This warranty applies to new, used, and demo machines.

Superabrasive agrees to repair or replace, free of charge, any parts which have failed due to manufacturer or material defects. Repairs must only be performed at authorized service facilities that have been approved by Superabrasive. Shipping and handling fees associated with warranty claims must be pre-paid by the customer / claimant.

In the event that a warranty investigation determines that the damage or unit failure is not attributed to manufacturer or material defects, all costs associated with the repair of the vacuum will become the direct responsibility of the claimant. If payment is not rendered for such services, Superabrasive will assume ownership of the machine and any associated parts in possession.

Superabrasive does not authorize any person or representative to make any other warranty, or to assume for us any liability in connection with the sale and operation of our products.

The manufacturer is also not liable in the event that the customer fails to submit a Warranty Certificate, fails to follow manual instructions, uses non-original spare parts, or fails to service/clean the vacuum regularly and properly

## 1.2 RETURN POLICY FOR LAVINA® VACUUMS

LAVINA® Vacuums may be returned, subject to the following terms:

- Vacuums may not be returned to Superabrasive Inc. for credit or repair without prior authorization. Please contact Superabrasive Inc. or your local distributor for authorization and issuance of a return authorization number. This number along with the serial number of the vacuum must be included on all packages and correspondences. Vacuums returned without prior authorization will remain property of the sender and Superabrasive Inc. will not be responsible for these.

- No vacuums will be credited after 90 days from the date of Superabrasive's invoice.
- All returns must be shipped freight prepaid. All returns may be exchanged for other equipment or parts of equal dollar value. If vacuums are not exchanged, they are subject to a fifteen percent (15%) restocking fee.

## 2. GENERAL INFORMATION

This owner's manual is intended for the operator of the Lavina® V32E machine, the servicing technician as well as for anyone involved with operating or servicing the machine. We recommend that you read the instructions very carefully and follow them strictly. The manual includes information about assembling, using, handling, adjusting and maintaining your Lavina® V32E concrete dust collector.

### 2.1 MANUFACTURER

Superabrasive was founded in 1987, as a manufacturer of high quality diamond tools for the stone and concrete industry. Today, Superabrasive is one of the world's leading companies in the production of diamond tools and floor grinding machinery. At Superabrasive, we strive to deliver the very best solutions to our customers, and enable them to work more efficiently.

### 2.2 GENERAL DESCRIPTION

Lavina® V32E dust collector is designed for sucking and separating dry, non-combustible and non-explosion dust. Dust laden air is sucked through at high speed via the suction hose. When the dust engage the vacuum, it is been separated in four stages. The first one is the integrated pre-separator, which captures around 90% of the large dust particles (the efficiency depends on the dust particle size – the larger the better). In the next stage, the smaller dust particles that passed through the pre-separator engage the filter chamber, where a second cyclone is formed around the filter itself, which prevents larger dust particles to engage it. The next two stages are the main filter and the HEPA filter. The machine is designed to clean the primary filter by impulse reverse airflow. To discharge the dust from the vacuum's cylinders, the following must be done:

The separated dust accumulates in the cyclone until you open the valve situated on the vacuum's hood or the machine is switched off. Either way the dust drops through the bottom flap into the plastic bag.

Lavina® V32E dust collector has two hoses:

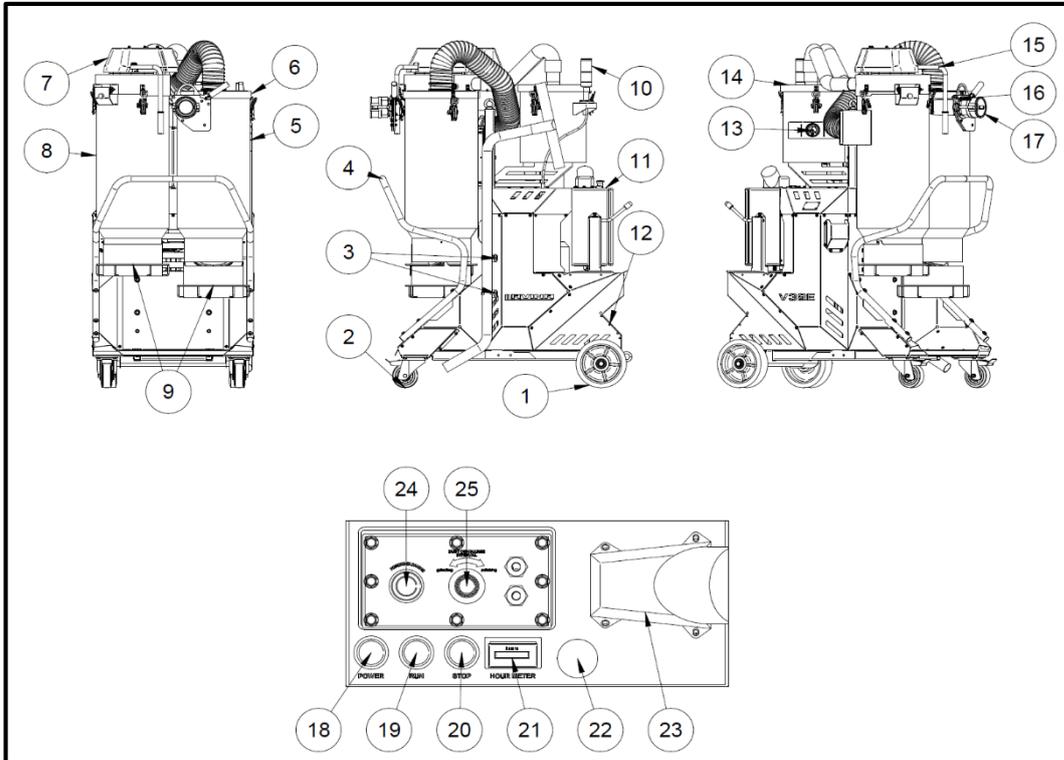
- Main hose with Cam Lock to connect to the grinding and polishing machine;
- Accessory hose with cuff for the wand;

#### **WARNING!**

The dust collector Lavina® V32E is manufactured and fitted for the above-mentioned applications only! Every other use may possess risks to the persons involved.

### 3. MAIN COMPONENTS AND CONTROLS

Lavina V32E has three sub models: European, US 230V and US 480V HV. Each model has two variations. Basic one with manual filter cleaning and a variation equipped with automatic filter cleaning system. Also there is the option to upgrade your manual cleaning vacuum by installing automatic cleaning kit.



**Figure 3.1**

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. Fixed wheel (2 total);</li> <li>2. Caster locking wheel (2 total);</li> <li>3. Holders for the steel wand;</li> <li>4. Handle;</li> <li>5. Pre-separator body;</li> <li>6. Pre-separator head cover;</li> <li>7. Filter chamber head cover;</li> <li>8. Filter chamber;</li> <li>9. Holder for LONGOPAC® waste system (2 total);</li> <li>10. Signal lamp;</li> <li>11. Control board;</li> <li>12. Rear service cover;</li> <li>13. Vacuum pressure gauge;</li> <li>14. HEPA filter chamber;</li> </ol> | <ol style="list-style-type: none"> <li>15. Handle for jet pulse filter cleaning;</li> <li>16. Valve;</li> <li>17. 3'' Female camlock;</li> <li>18. Power LED lamp – lights green when the vac is on;</li> <li>19. Run button – starts the motor;</li> <li>20. Stop button;</li> <li>21. Hour meter;</li> <li>22. EMG stop button;</li> <li>23. Distribution plug;</li> <li>24. Force cleaning button. <b>ONLY IN AUTOMATIC CLEANING VERSION;</b></li> <li>25. Potentiometer to adjust time intervals between discharge cycles. <b>ONLY IN AUTOMATIC CLEANING VERSION;</b></li> </ol> |
|--|--|

**Label Data** - The data on the label provides the correct kW, weight and dimensions; Weight (needed for transportation purposes); production year and serial number (needed for maintenance purposes).

**Customer Service** - For customer assistance and technical support call your local distributor or call Superabrasive Inc. at 1-800-987-8403 or visit us at [www.superabrasive.com](http://www.superabrasive.com) , where you can download a copy of this manual.

## 4. TECHNICAL DATA

**Table 4.1**

LAVINA® V32E TECHNICAL DATA		V32EU	V32E 230V	V32E 480V (HV)
Power/KW/hp/	kW	7.5	8.6	8.6
	HP	10	11.5	11.5
Voltage/Hz		3ph x 380V / 50Hz	3ph x 208V / 60Hz	3ph x 480V / 60Hz
Amperage	Amps	16.9	30.4	17.5
Distribution plug	Amps	32	55	32
Main Filter		CONICAL FILTER	CONICAL FILTER	CONICAL FILTER
Main Filter area	m <sup>2</sup>	5	5	5
	ft <sup>2</sup>	53.8	53.8	53.8
Filter cleaning		Manual/Automatic(optional)	Manual/Automatic(optional)	Manual/Automatic(optional)
HEPA filter area	m <sup>2</sup>	4	4	4
	ft <sup>2</sup>	43	43	43
Longopac		YES	YES	YES
Main hose	mmxm	75 x 10	75 x 10	75 x 10
	inxft	3 x 32	3 x 32	3 x 32
Accessory hose	mmxm	50 x 6.5	50 x 6.5	50 x 6.5
	inxft	2 x 21.3	2 x 21.3	2 x 21.3
Airflow (max)	m <sup>3</sup> /h	760	840	840
	CFM	447	490	490
Vacuum max	bar	0.28	0.28	0.28
	(inchH <sub>2</sub> O)	112.5	112.5	112.5
Dimensions (L*W*H)	mm	1300x800x1775	1300x800x1775	1300x800x1775
	in	51x31.5x69.8	51x31.5x69.8	51x31.5x69.8
Weight	kg	280	280	280
	lbs	620	620	620

## 5.SAFETY PRECAUTIONS

### 5.1 RECOMMENDED USE

The LAVINA® V32E vacuum is designed and manufactured for use with concrete, terrazzo and natural stone floors. It is recommended for use with LAVINA® machines. This vacuum is rated for dry use only, and with a machine of appropriate size. For more information, please contact Superabrasive.

### 5.2 PROHIBITED USE

**The vacuum MUST NOT be used:**

- For applications different from those stated in this manual;
- For collecting non-suitable materials (asbestos or other toxic materials) ;
- In environments which (1) Possess the risk of explosion, (2) Possess high concentration of powders or oil substances in the air, (3) Possess the risk of fire, (4) Feature inclement conditions, (5) Possess electromagnetic radiation;

### 5.3 PREPARATION FOR WORK

**Ensure that:**

- You have secured the working area, so that no person unfamiliar with operating the vacuum can enter the area;
- The vacuum is not missing parts;
- The vacuum is in an upright, working position;
- All protection devices are working properly;

### 5.4 STOP FUNCTIONS

**Functions for arresting of the machine include following:**

- Start/Stop ignition switch;

### 5.5 SAFE USE

The LAVINA® V32E is designed to eliminate all potential risks associated with its use. However, accidents may occur if unskilled or uninstructed workers fail to heed the list of potential risks below:

- Position Risks due to operator's incorrect working position;
- Tangling Risks due to wearing inappropriate working clothes;
- Training Risks due to lack of operational training;

NOTE: Machine operators should follow the instructions in the manual at all times.

RESIDUAL RISKS During normal operating and maintenance cycles, the operator is exposed to some.

### 5.6 BEFORE YOU BEGIN

- The working area must be clear from any debris or objects.
- A first-time operator must always read the manual and heed all safety instructions.

- Perform general daily inspections of the vacuum and inspect the vacuum before each use for any sign of damage.
- Inspect all safety devices.
- The vacuum filters must be clean and the hose should be connected.

## 5.7 OPERATING THE VACUUM

When operating the LAVINA® V32E, be sure that no one else is within close proximity to the vacuum. Never leave the vacuum unattended while working. The hose must move freely, be damage-free, and should never run beneath the vacuum or machine. Check the floor prior to beginning any work, and ensure that it's not too uneven, which can cause damage to the vacuum.

## 5.8 AFTER WORK IS COMPLETED

When work is complete, clean the vacuum and its surroundings sufficiently, empty all dust / debris, secure the hose, and store the vacuum in a safe and secure place.

## 5.9 THE WORK AREA

Ensure that the area is free of unauthorized people or vehicles, hoses, and always check the floor for debris.

## 5.10 PERSONAL PROTECTIVE EQUIPMENT (PPE)

When operating the machine, always wear safety shoes, ear protectors, safety gloves (especially when changing tools), and suitable clothing. All persons within the immediate working area must wear safety glasses with side shields.

## 5.11 OPERATOR

The operator must be aware of the vacuum's work environment, be properly trained prior to operating the equipment, and fully understand this manual. Only one operator may work with the machine at a single time. The operator must understand and interpret all the drawings and designs in manual, understand all sanitation and safety regulations pertaining to its operation, have floor grinding experience, know how to perform in an emergency situation, and have an adequate technical knowledge.

- The dust collector should only be operated in environments with a temperature between 41°F and 113°F (5°C to 45°C) and a maximum relative humidity of 70%.
- The work environment for the vacuum should be clean, well-lit, and free of combustible elements.
- The dust collector should not be operated without the proper filters installed. This could possibly result in damage to the machine, and cause harm to surrounding personnel.
- Do not open the waste container or motor head assembly while the vacuum is operating.
- Do not vacuum any flammable materials or substances such as fuels, solvents, etc. A dust collector must be specifically designed and labeled for such operation. When grinding epoxy, first ensure that the epoxy is non-toxic.
- Do not vacuum any corrosive substances unless the vacuum is specifically outfitted with containers suitable for this purpose.
- Do not vacuum any burning, smoldering, or hot materials. This could result in a possible explosion and/or damage to the vacuum components.

- If toxic or harmful substances accidentally enter the vacuum cleaner, the container and filters must be removed and cleaned immediately using the proper protective equipment and safety procedures.
- Utilize the locking caster wheel to prevent movement while work is being performed.
- When moving the dust collector, never pull on the vacuum hose. For this purpose, always use the designated handles mounted on the machine.
- For this specific dust collector, sound tests indicate that the emitted noise level is measured at a maximum of 75 decibels (dBA), for a distance of 1 meter from the machine (and height of 1.60 meters). The vibrations emitted from the machine have been measured at a maximum value of 2.5 m/s<sup>2</sup>. • CAUTION: The National Institute for Occupational Safety and Health (NIOSH) recommends that exposure to noise in the working environment be maintained below a level equivalent to 85 dBA for a period of eight hours, in order to minimize occupational, noise induced hearing loss. Any persons working in proximity of the vacuum cleaner should wear the proper hearing protection in order to prevent hearing loss. Please refer to your local laws and regulations for further information on the matter.
- When storing the vacuum, the filter should be removed and cleaned, and the waste container should be emptied of debris. Store the vacuum in temperatures between 32°F and 104°F (0°C and 40°C). Cover the vacuum in order to protect it from accumulating debris and/ or environmental elements.

## 6. UNPACKING, HANDLING, TRANSPORTATION AND STORAGE

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

- Steel wand;
- Floor brush;
- Main vacuum hose with camlock to connect to the machine;
- Accessory vacuum hose with cuff to connect to the wand;

If any of the above-mentioned parts are missing, please contact your local distributor or our sales representative. Protect the environment: Please dispose of packaging materials and used machine components in an environmentally safe way according to local disposal regulations.



**Figure 6.1**



**Figure 6.2**



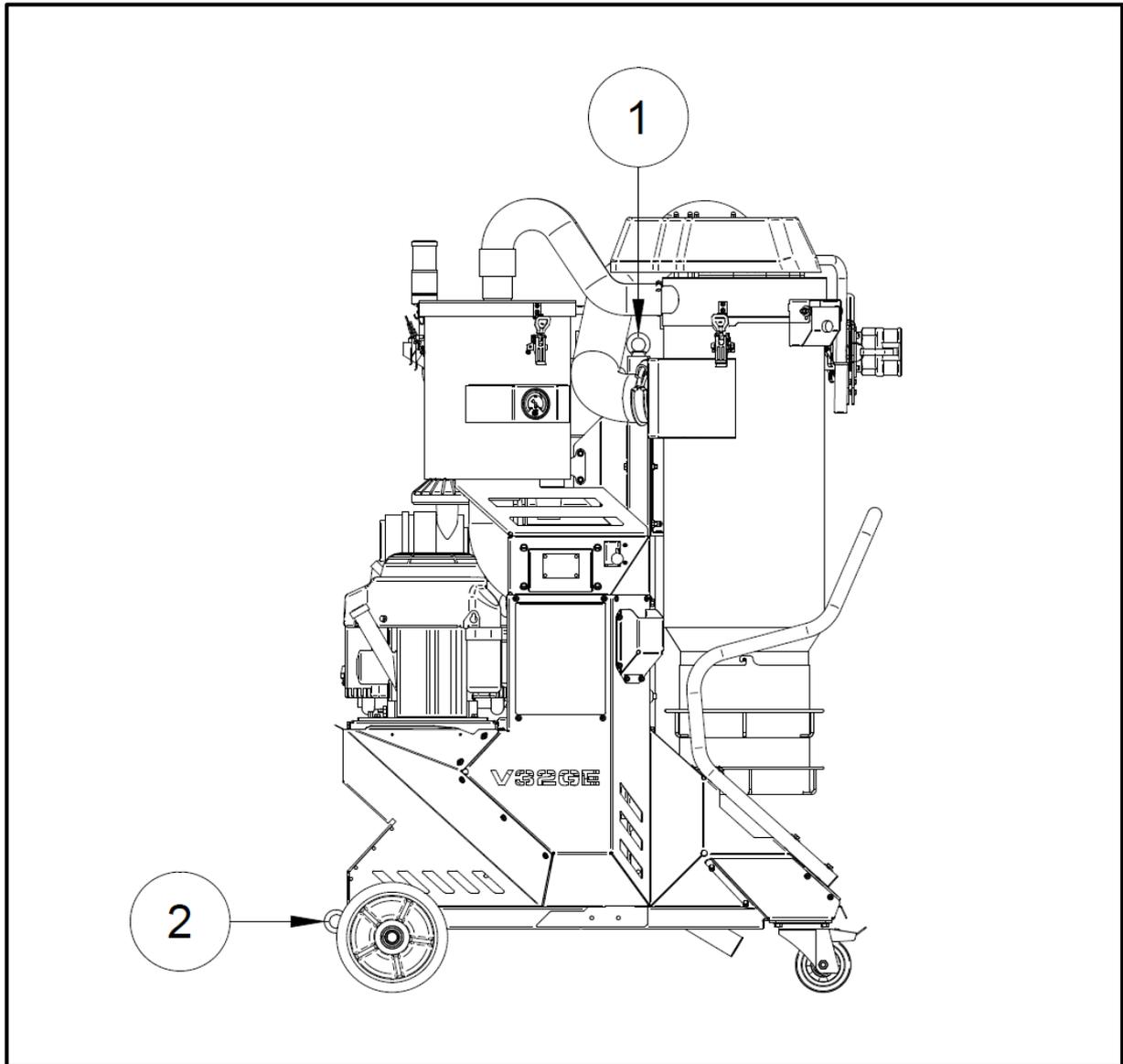
**Figure 6.3**

### Attention

- During transportation, battery and propane tank must be securely fastened and completely disconnected at all times.
- Before operating the vacuum after transportation, propane tank and battery must be re-connected and correctly assembled:
  - Battery: Make sure that the wires are firmly connected to the correct terminals (black (-) & Red (+). Also confirm that the bracket that holds the battery in place is correctly assembled, so that the battery can't move during operation.
  - Propane tank: Make sure that the tank is firmly held in place by the lock and holder plate where the propane tank sits on the back of the dust collector. It should not be able to move when it's correctly assembled.

When handling and transporting the machine, never use the handles or other machine parts to lift the machine. Use always a skid or pallet for transportation, and never transport an unprotected machine in the rain or snow. Always store and transport the machine in an upright position. The machine should also always be stored in a dry, frost-proof environment.

## 6.1 LIFTING THE MACHINE



**Figure 6.1**

**IMPORTANT:**

**TO LIFT THE MACHINE USE ONLY THE RINGS POS.1.**

**TO PULL THE MACHINE USE THE RINGS POS.2.**

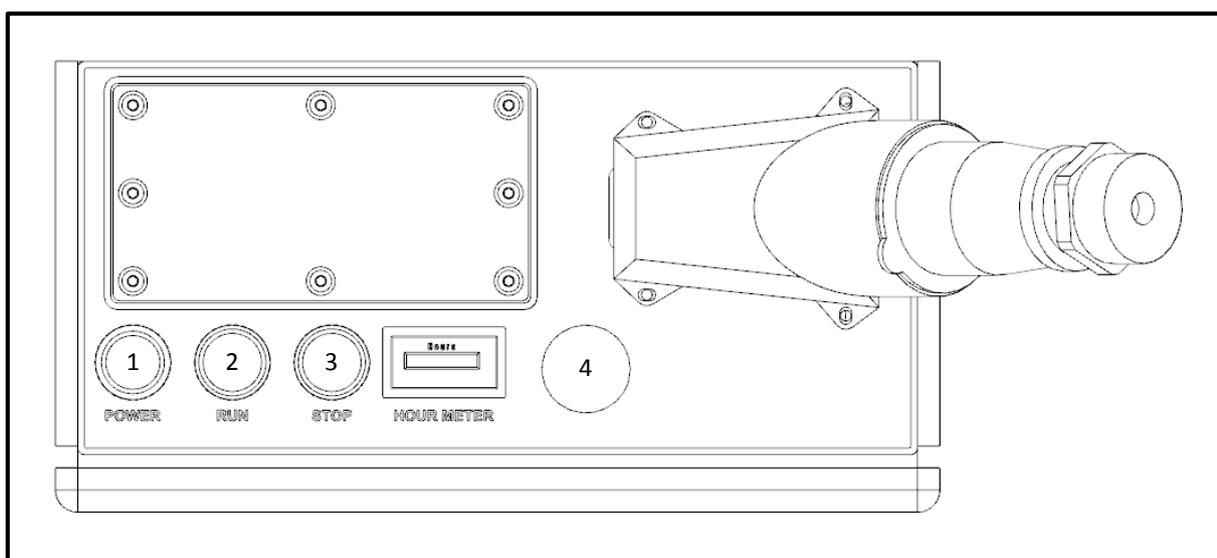
**NEVER USE THE HANDLE AS A LIFTING POINT!**

## 7. OPERATING WITH THE VACUUM

**IMPORTANT:** Before starting the machine, check the service table for daily maintenance. Make sure that the flexible vacuum hose is securely attached to the vacuum pipe union and vacuum cleaner inlet. Check oil level.

### 7.1 TO START THE VACUUM

- A. Connect the dust extractor to the power supply network.
- B. Check if the “POWER” button (1) glows in green light.
- C. If it glows, the machine is ready for operation.
- D. Make sure that the EMG button (4) is released and press the “RUN” button (2) to turn on the dust extractor.
- E. To turn it off press either the “Stop” (3) or the “EMG Stop” button (4).



**Figure 7.1**

### 7.2 LOCKING CASTER WHEEL

There are two locking caster wheels located on the front of the dust collector. Locking the wheel will prevent the vacuum from moving, and possibly causing damage or injury. The wheel should be locked on uneven surfaces to prevent unexpected rolling or movement. To lock or unlock the caster wheel, follow the procedure shown below.

- To lock the caster wheel, press down on the metal tab.
- To unlock the caster wheel, press backwards the metal tab protruding from the top of the wheel assembly.



**Figure 7.2**

## 7.3 MAIN FILTER CLEANING

### 7.3.1 MANUAL FILTER CLEANING.

**IMPORTANT:** Lavina V32E is equipped with a signal lamp (fig 3.1 pos.10). The lamp starts glowing red as the vacuum reaches the red area of the vacuum's pressure gauge (about -0.2bar) to indicate that the main filter must be cleaned or changed.

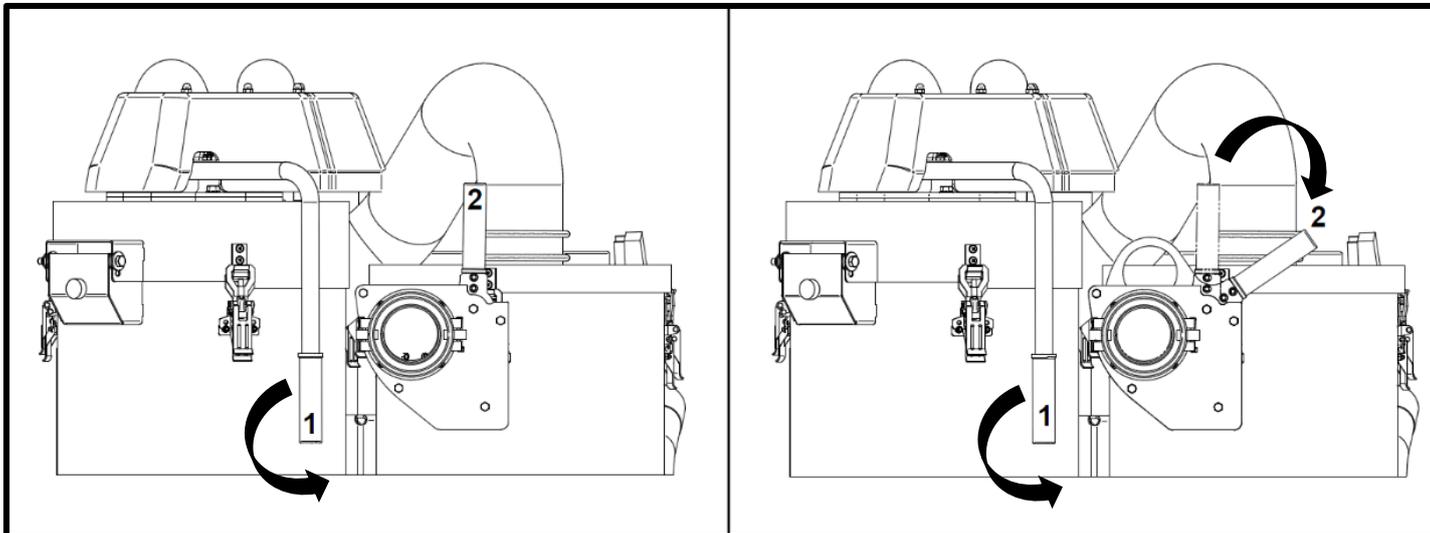


Figure 7.3.1

Lavina V32E uses jet pulse manual filter cleaning. One cycle of filter cleaning takes 10 to 20 seconds, depending on the vacuum's operator. The filter must be cleaned as the vacuum gauge goes to red (the LED lamp starts glowing) or if there's low suction. If the suction performance is still not improved after a cleaning cycle is applied, the filter must be replaced with new one.

In fig. 7.3.1 you have the vacuum's working position on the left. To clean the main filter, follow the steps below in the exact order:

**1<sup>st</sup>.** Open the valve situated on the vacuum's head cover by pushing the lever pos.1 and wait for a few seconds before releasing. This will discharge the vacuum from the accumulated dust.

**2<sup>nd</sup>.** After discharging, close the entrance valve by pushing the lever pos. 2. This creates a vacuum in the system, indicated by the pressure gauge (fig. 3.1) as it goes to red (-0.28 to -0.3 bar).

**3<sup>rd</sup>.** With the system under vacuum, open and close the valve on the head cover pushing the lever (pos. 1) 3 to 5 times to clean the filter. Allow 1-2 seconds between each valve opening to build up vacuum in the system again. This can also be verified via the pressure gauge. Once complete, return to the normal operating position.

## 7.3.2 AUTOMATIC FILTER CLEANING.

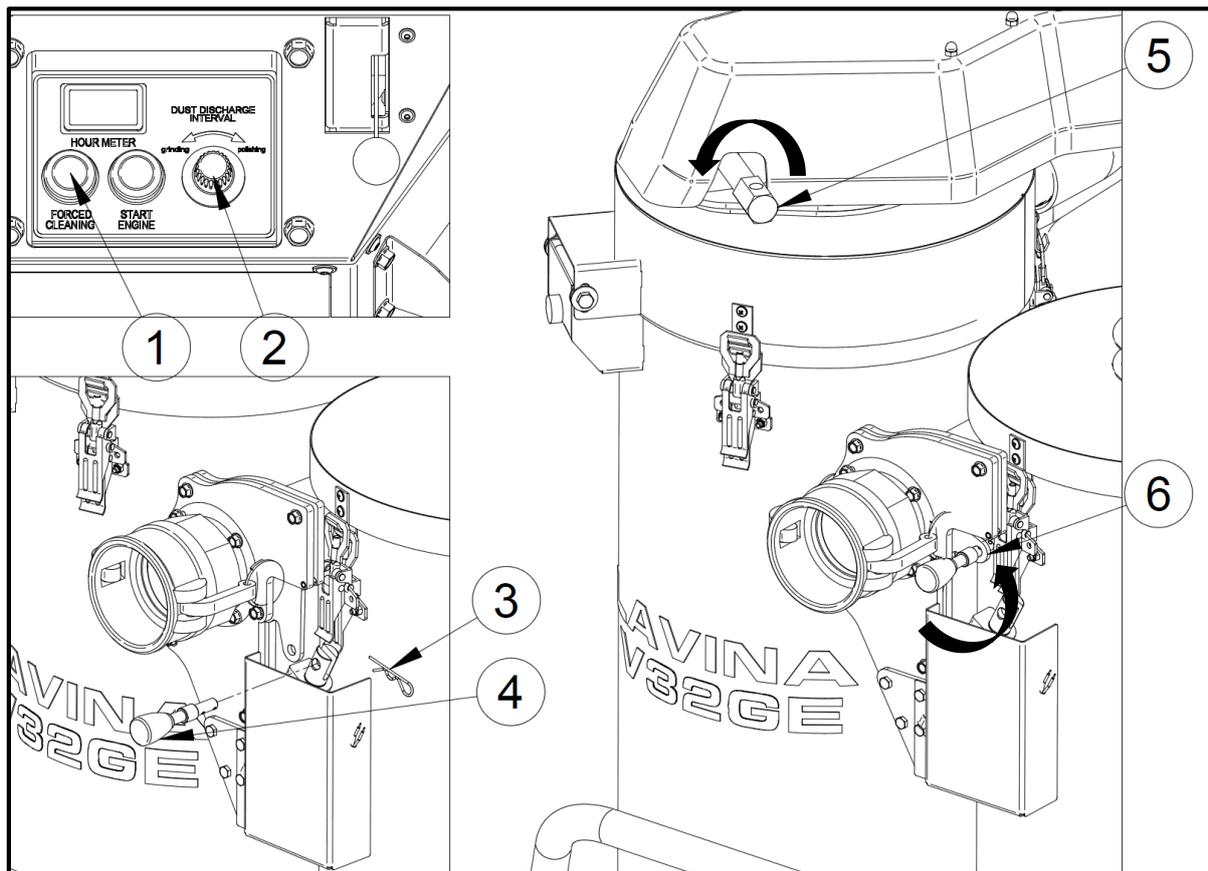


Figure 7.3.2

The automatic filter cleaning triggers itself when the dust extractor reaches about -0.2bar of vacuum, as suction becomes poor and the filter requires cleaning. It can be triggered manually by pressing the button for "FORCED CLEANING" **pos.1**. In some cases (depend on the tools used on the grinding machine) before reaching -0.2 bar the dust extractor will accumulate enough dust for several bag changes. To avoid choking the vacuum with dust before reaching -0.2bar there is a potentiometer **pos.2** with 11 positions. Each division corresponds to 5 minutes (pos.1-5min. pos.11-55min.). This potentiometer sets the dust release interval, which lasts about 5 seconds. For example if the dust extractor accumulates 15 kg dust in 15 minutes and the dust extractor is still far from - 0.2bar of vacuum, it needs to be discharged to prevent choking the pre-separator and maintaining its high level of efficiency.

**In case of emergency:**

If the automatic system stop for some reason, there is an alternative way to clean the filter. Remove the cotter pin **pos.3** and eject the axle **pos. 4**. Once the actuator is detached use the axle to rotate the inlet valve **pos.6**. Once the valve is closed and the system is under vacuum, rotate the axle **pos. 5** to clean the filter. Repeat the procedure with the lever 3 to 5 times and then open the valve to its working position.

**IMPORTANT:** The axle **pos. 5** has a hole in it with a diameter of 12mm (0.47 inch). Use a metal rod or big screwdriver as a lever to rotate the axle.

## 7.4 MAIN FILTER CHANGE

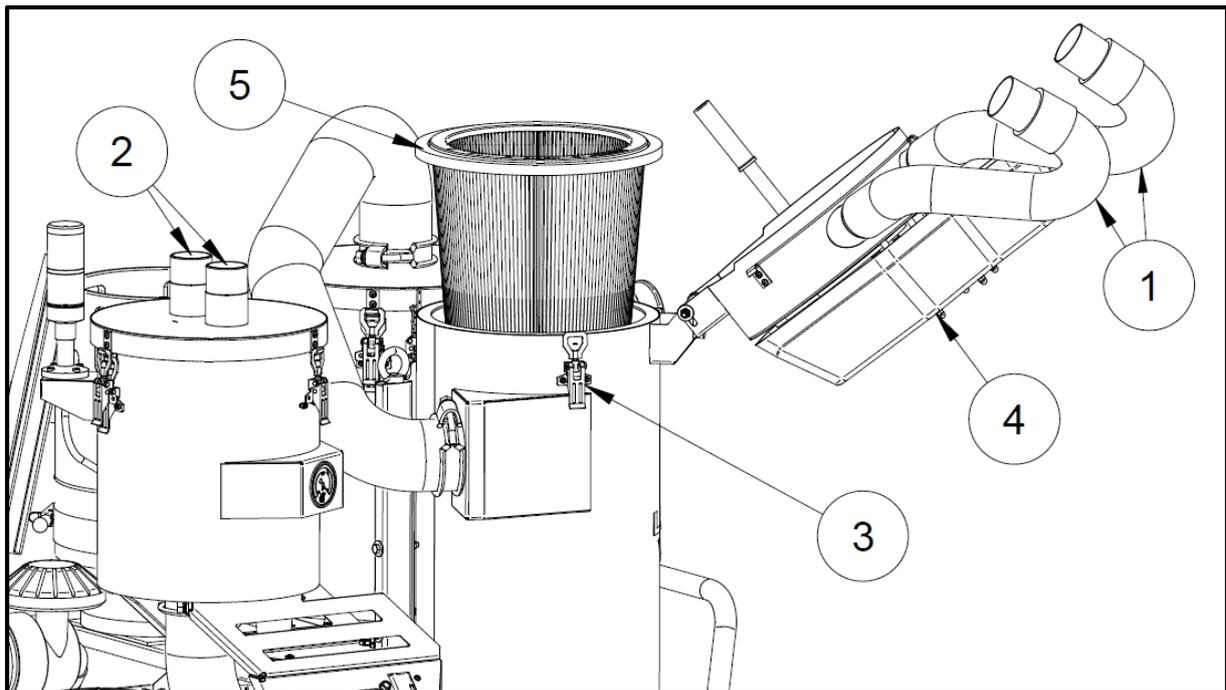


Figure 7.4

### WARNING:

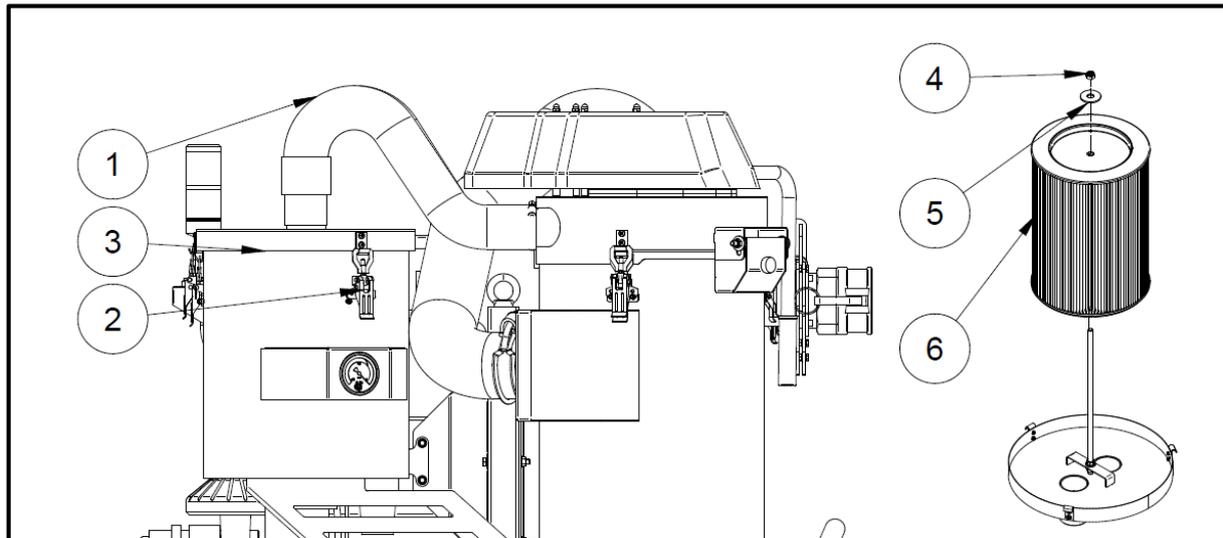
1. Turn off the engine and wait for the fan impeller to completely stop before opening the machine to change filters.
2. Do not touch the exhaust! It will get very hot even when running the engine for a short time.

**IMPORTANT:** All of the following procedures must be performed with the dust collector turned off (look at the beginning of chapter 7). Before performing any work or maintenance on the vacuum, be sure to wear the proper protective equipment. This might include clothing which covers any exposed skin, protective eyewear, a respirator, and/or protective gloves conforming to protection class FFP3.

To replace the main filter, first remove the hoses pos.1 from the hepa chamber pos.2. Then release the three latches pos.3 and open the head cover pos.4. Once opened, lift out the used filter pos.5 and place it carefully in a plastic bag. This bag must be properly disposed. Clean the area where the filter lies and then insert the new filter. Only original filters may be used.

**CAUTION:** If you are removing the main filter in order to clean it: hitting the filter with force or using compressed air may damage the filter. It can handle being cleaned with water, but not under high pressure. Let the filter dry thoroughly before installing.

## 7.5 HEPA FILTER CHANGE



**Figure 7.5**

### **WARNING:**

1. Turn off the vacuum and wait for the fan impeller to completely stop before opening the machine to change filters.

**IMPORTANT:** All of the following procedures must be performed with the dust collector turned off (look at the beginning of chapter 7). Before performing any work or maintenance on the vacuum, be sure to wear the proper protective equipment. This might include clothing which covers any exposed skin, protective eyewear, a respirator, and/or protective gloves conforming to protection class FFP3.

**IMPORTANT:** the used filter and debris must be disposed of using methods which fully comply with local environmental laws and regulations.

To change the HEPA filter you need to follow the four steps as it's shown in fig. 7.5.

1<sup>st</sup> Remove the two hoses from the HEPA chamber pos. 1.

2<sup>nd</sup> Release the 3 latches pos. 2.

3<sup>rd</sup> Lift the HEPA chamber head cover pos. 3. The HEPA filter is mounted on the head cover.

4<sup>th</sup> Unscrew the nut pos. 4 and remove the washer pos. 5. Pull the filter pos. 6 and replace it.

**Make sure to replace also the nut pos. 4 with new one in order to avoid self-tapping!**

After you place the new HEPA filter in the chamber do the steps in the reverse order.

## 7.6 LONGOPACK® BAG REPLACEMENT (CHANGING BAGS)



**Figure 7.6.1**



**Figure 7.6.2**

**Figure 7.6**

The Lavina® V32E has two pieces of LONGOPAC waste system for effective dust storage. This is a 20 m long plastic tube that will be divided into plastic bags using the zip ties attached to the machine.

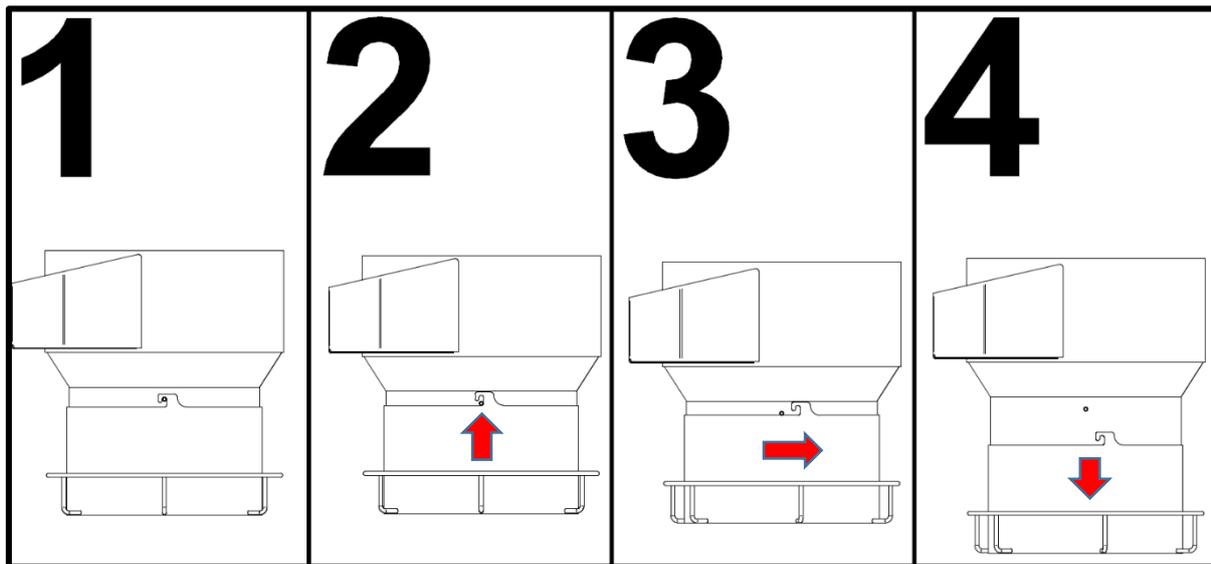
### **IMPORTANT:**

#### 1. TURN OFF THE VACUUM;

- Make sure that there at least 3-4 inches of an empty bag located between the bottom of the dust container and the top of the debris/waste.
- Install 2 zip ties, or cable ties, around the plastic bag: 1 located above the top of the debris/waste, and a 2nd tie located approximately 2-3 inches higher up on the bag). Both ties must be securely tightened in order to prevent the opening of the bag and possible spillage (Fig 7.6.1).
- Using a sharp knife or scissors, cut across the entire section of plastic bag located between the 2 zip ties, or cable ties (Fig 7.6.1). Remove and dispose of the bag section containing the dust and debris.
- Pull down on the bag until the end reaches the lower bag-support plate (Fig 7.6.2).

**IMPORTANT:** When disposing of bags containing debris, be sure to use waste disposal containers and methods that fully comply with all environmental laws and regulations that are applicable to your specific country and location.

## 7.7 INSTALLING LONGOPAC® REFILL PACKS



**Figure 7.7**

When the plastic bag cartridge has reached the end, the plastic bag refill may be installed using the following procedures:

1. At **fig. 7.7 pos. 1**, you can see the locked position of the LONGOPACK® plastic bag holder and to take it off you should:
  - Lift the holder upwards about 10-15mm to unlock it **fig. 7.7 pos.2**;
  - Rotate the holder enough that you can bring it down and take it off from the filter chamber **fig. 7.7 pos.3**;
  - Take off the holder **fig. 7.7 pos.4**;
2. As you took the holder off from the vacuum, now you can place new LONGOPACK bag refill by the following steps:



**Figure 7.7.1**



**Figure 7.7.2**

1. Place the LONGOPAC® bag refill into the support ring. Ensure that the 2 ends of the refill are directed in an upwards position. Pull the inner end of bag refill down over the inside surface of the bag support ring by making sure that the hook of the holder sticks out from the bag (Fig 7.7.1 and 7.7.2).
2. After you install the new bag, you need to attach the holder back to the filter chamber by following the steps from fig. 7.7, performing it backwards.
3. After you attach it and the zip tie has been securely installed, pull the bag down until the end reaches the lower, bag-support plate (fig. 7.6.2). The vacuum cleaner is now ready for operation.

## 8. MAINTENANCE AND INSPECTION

### ATTENTION!

**Wait until turbine impeller has completely stopped before starting servicing the machine.**

- Before moving the dust collector from the working area, the machine must be cleaned.
- All other equipment must be considered to be contaminated and be treated thereafter.
- If possible, use a special suitable room.
- Proper personnel protective equipment must be used.
- After a service, all parts that are contaminated must be taken care of properly in plastic bags, according to all regulations.
- If the dust collector has to be used for other purposes, it is extremely important that the machine is cleaned to avoid the spread of hazardous dust.

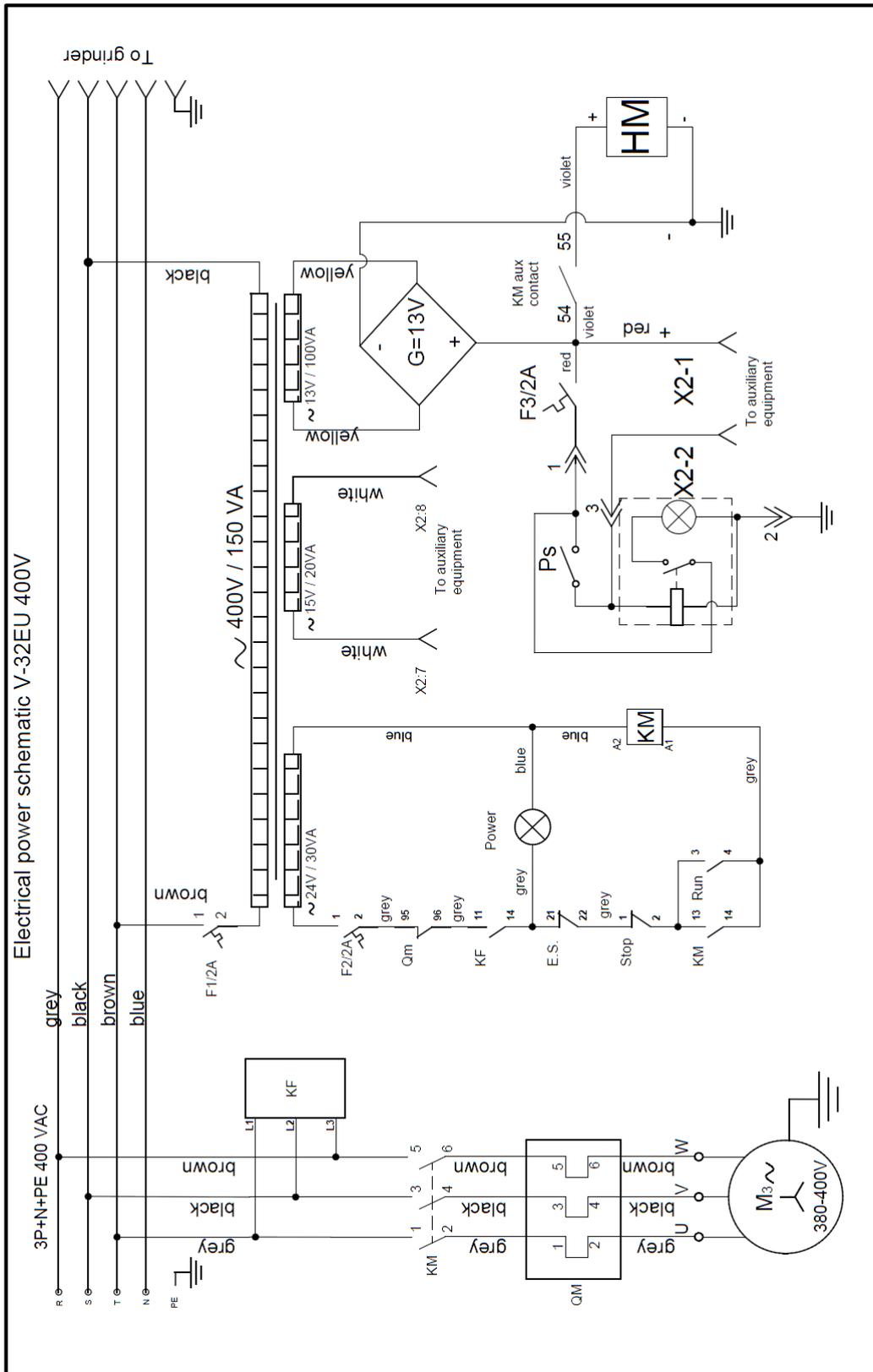
In order to ensure safe and efficient operation of the dust collector, the following procedures should be performed periodically (depending on the frequency of operation):

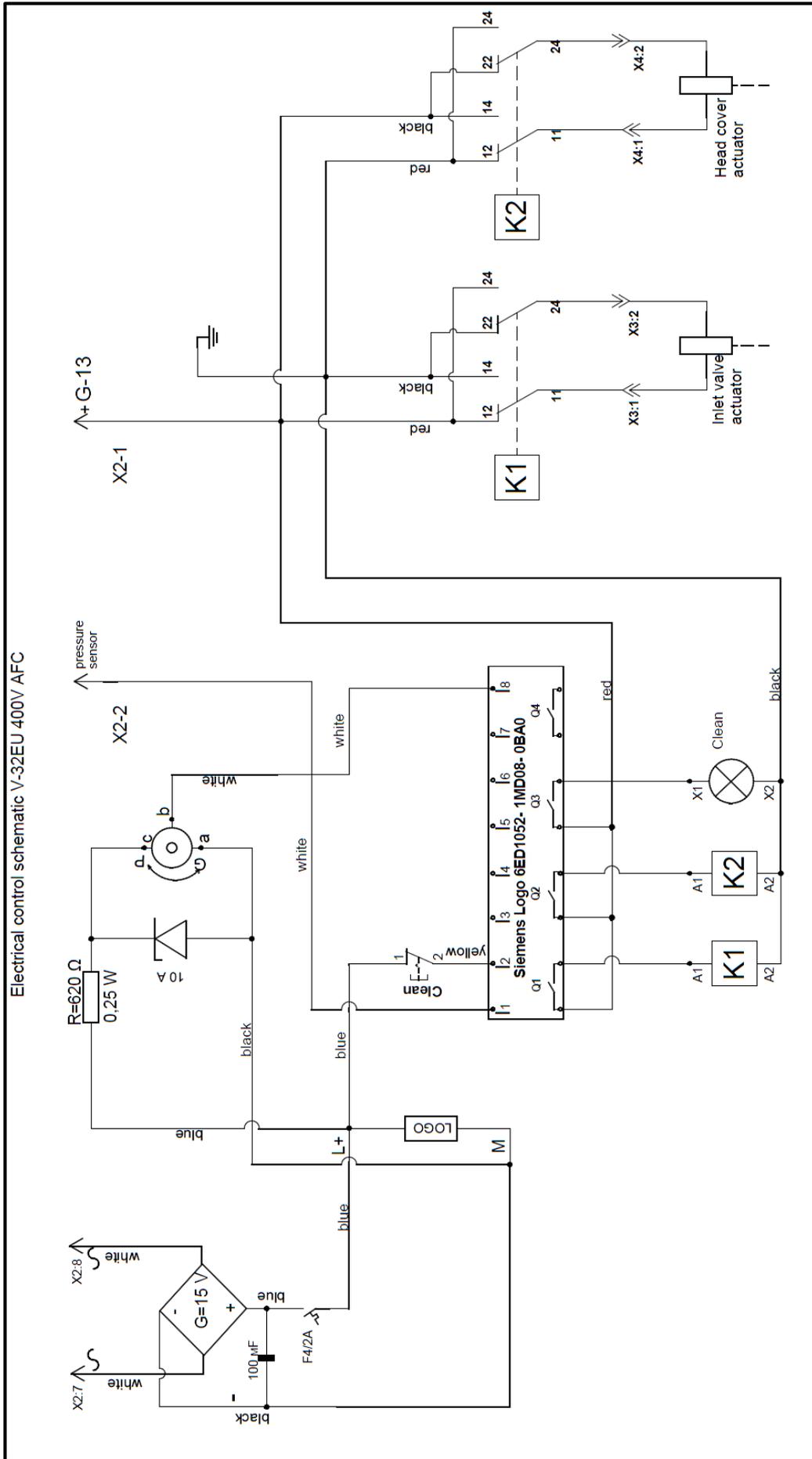
- Remove and inspect the filters for any signs of excessive wear or damage. Replace as necessary. (See section on "Filter Removal").
- Ensure that the gaskets on the filters are free of excessive wear or damage. Replace as necessary.
- Inspect all electrical components (switches, plugs, cables, etc.) for damage or exposed wiring. Replace as necessary.
- Ensure that all screws, bolts, and nuts are properly tightened.
- Check the waste container level. Always clean and change the bag when the debris reaches a maximum of 75% of its full capacity.
- Check the flexible vacuum hose and accessories for significant wear or damage. If holes are present, the dust collector's efficiency will be reduced, and debris will leak into the work environment. **IMPORTANT:** All major repair work should be performed by Superabrasive or an authorized repair facility.

**CHECK DAILY:** After operating the V32E, the operator should conduct a visual inspection of the machine. Any defect should be solved immediately. Pay attention to plugs and vacuum hoses, loose bolt or screws.

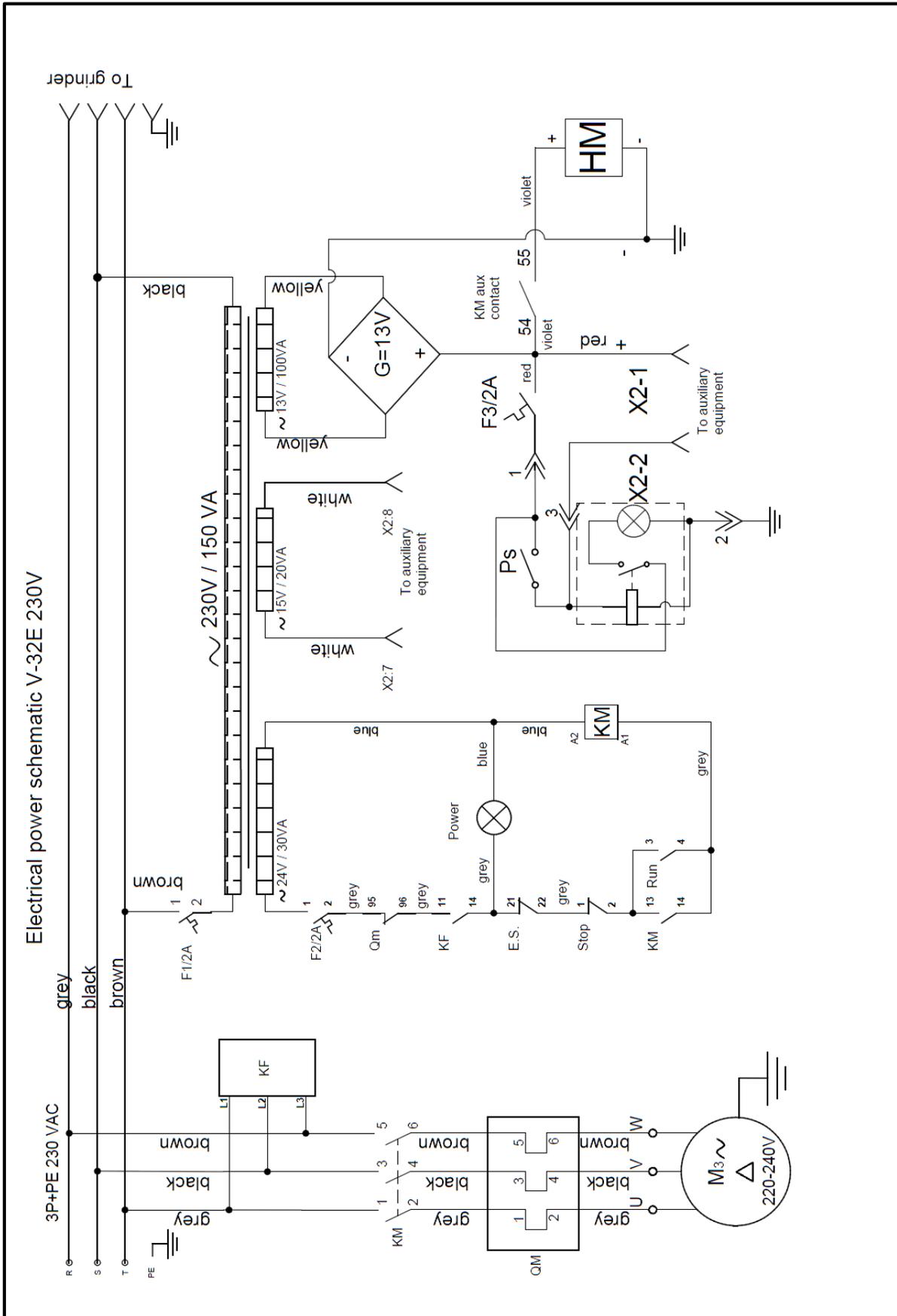
### 8.1 LAVINA® V32E ELECTRIC CIRCUIT DIAGRAM

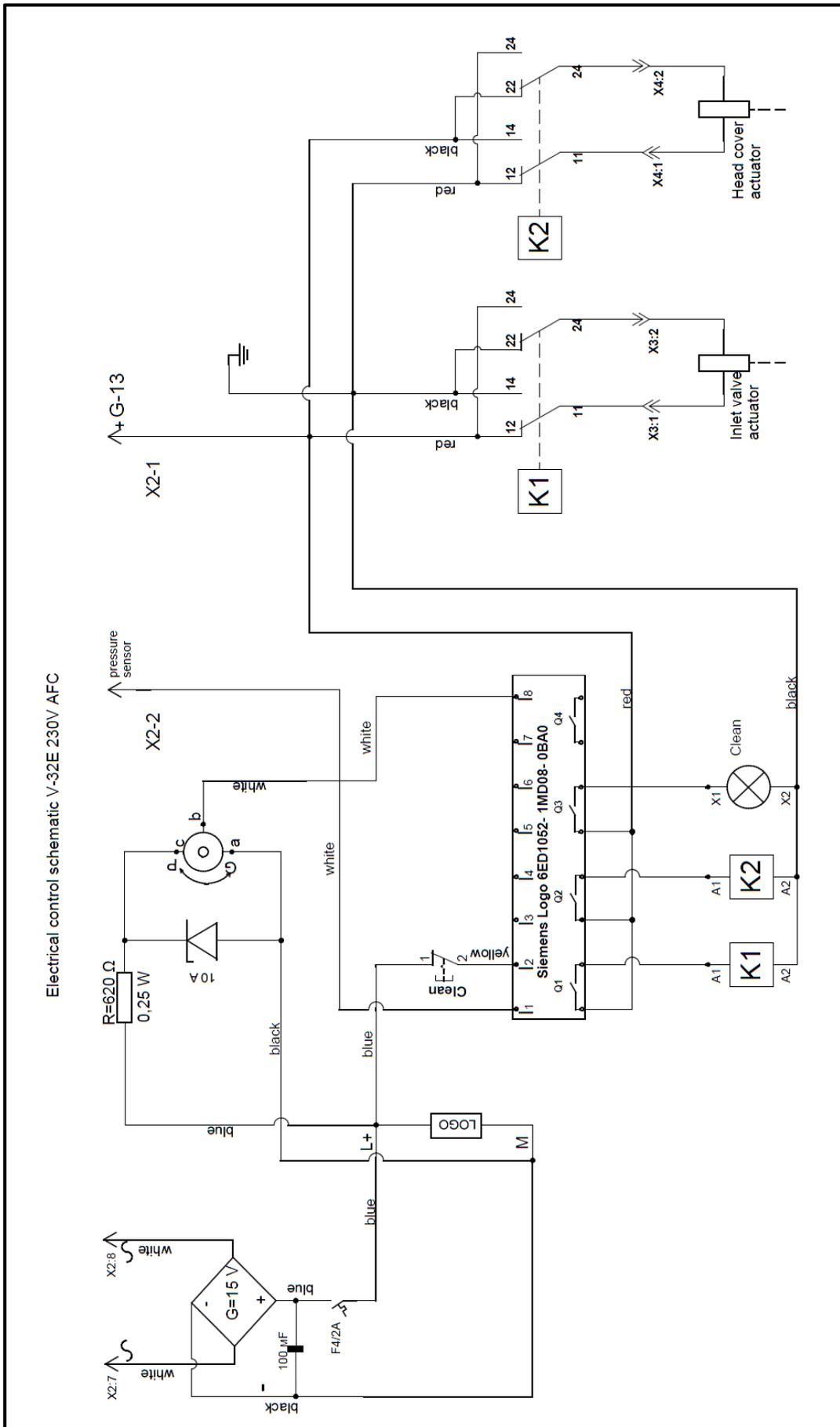
#### 8.1.1 V32EU



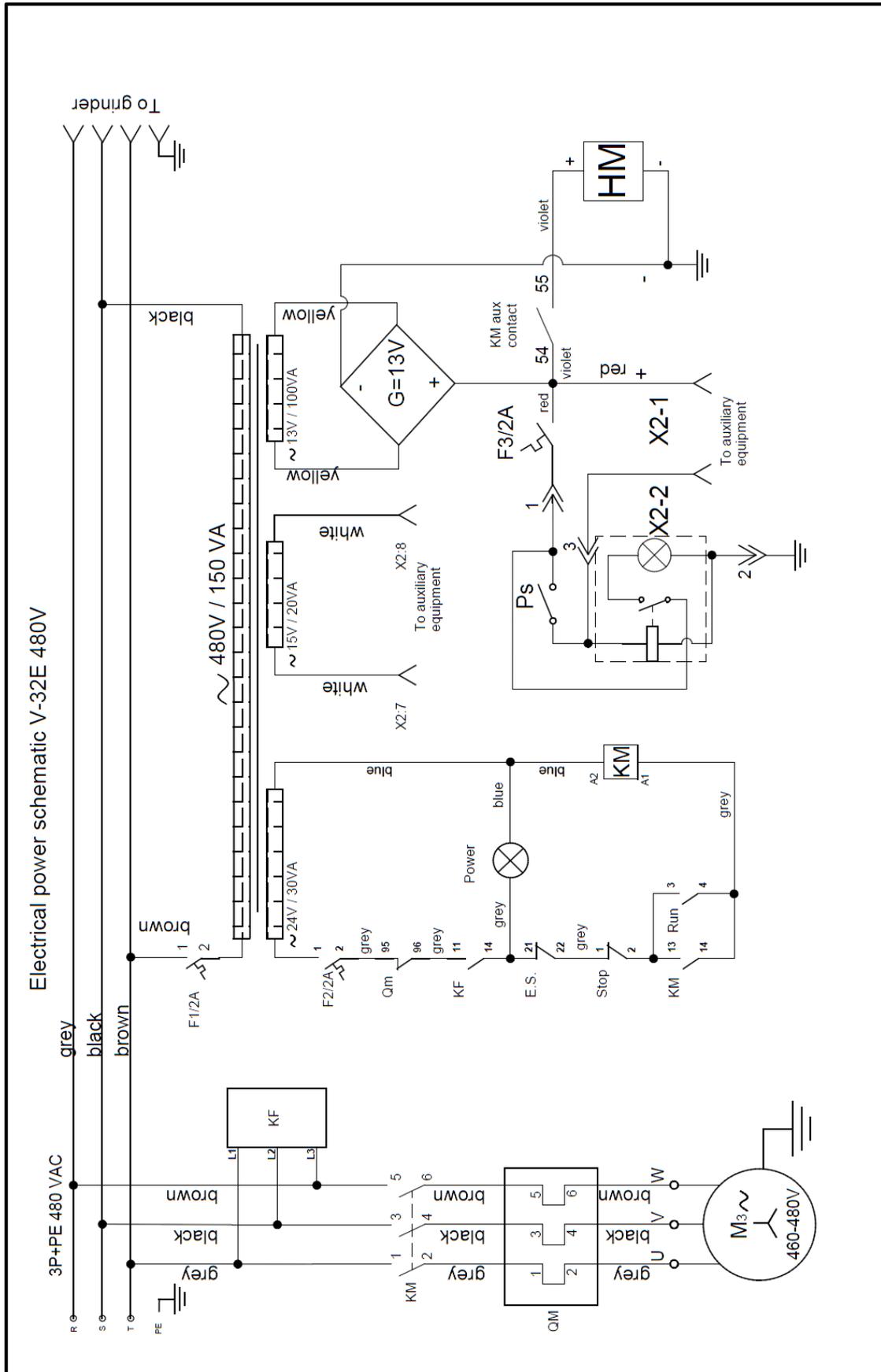


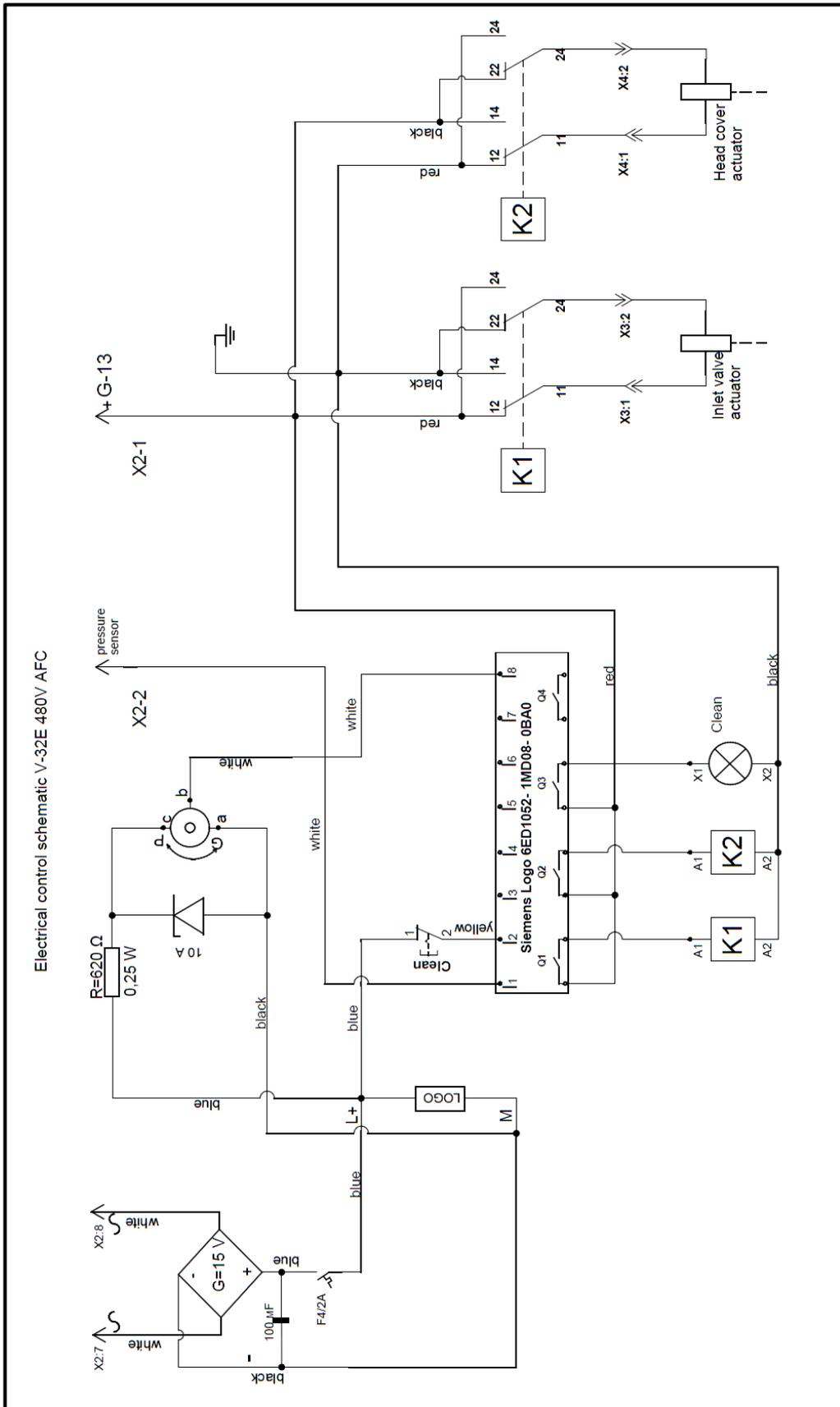
8.1.2 V32E 230V



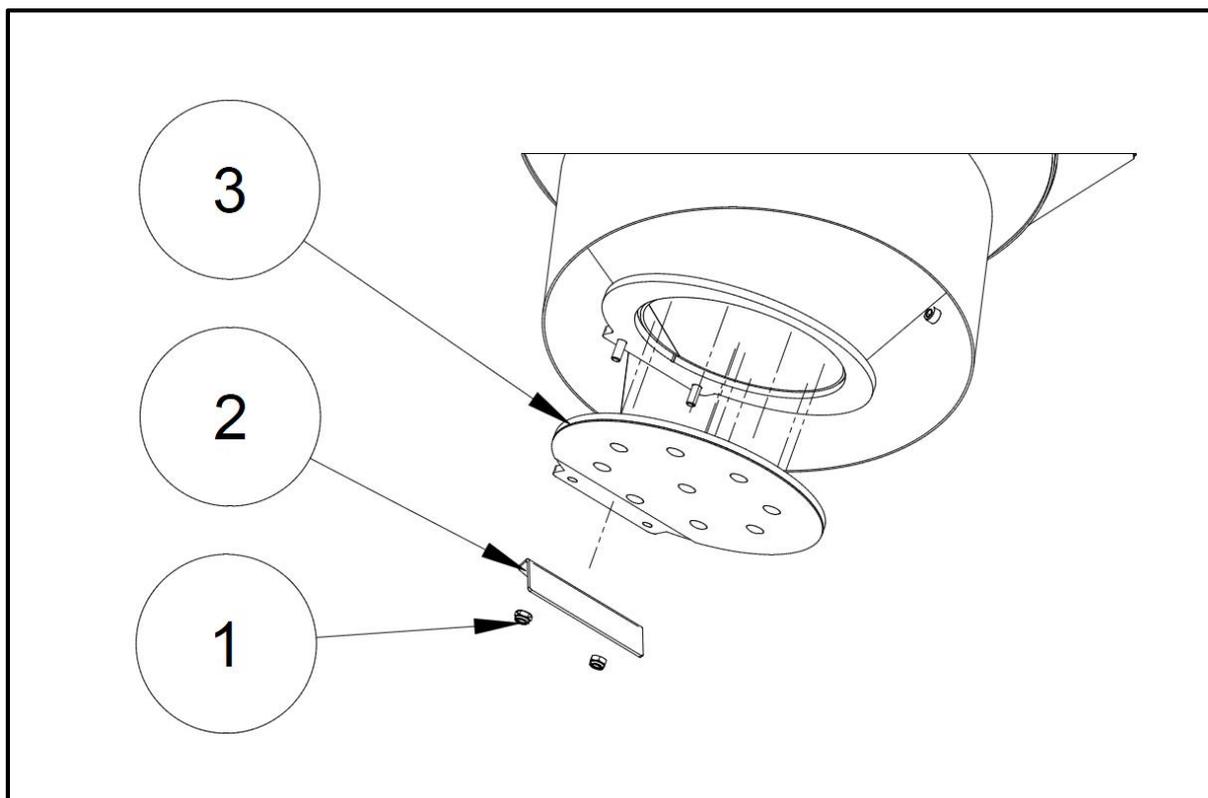


8.1.3 V32E 480V





## 8.2 DUST CHAMBERS FLAP REPLACEMENT



**Figure 8.6**

To change the flap follow those 3 steps (fig. 8.6):

- Unscrew the nuts pos.1;
- Remove the limiting plate pos.2;
- Remove the flap pos.3;

Mount the new flap and go through the steps in reversed order.

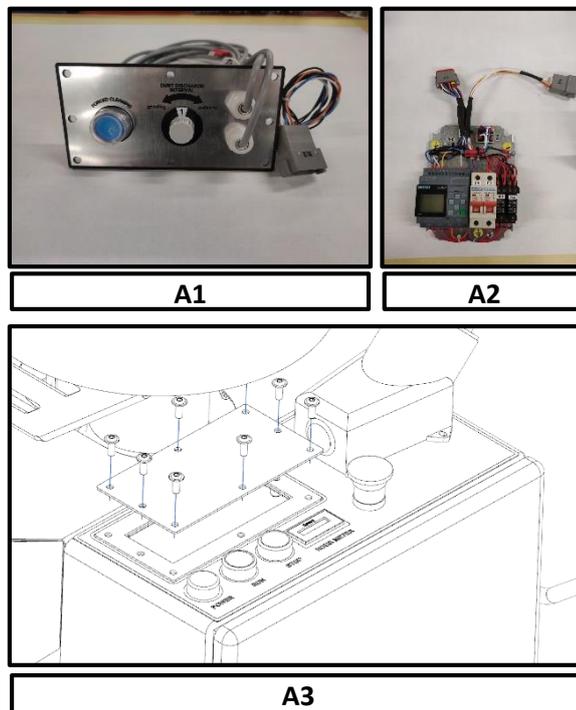
### 8.3 AUTOMATIC FILTER CLEANING INSTALATION AND MAINTANANCE

As mentioned in the beginning of the manual, Lavina V32E comes in two variations. With manual and automatic filter cleaning.

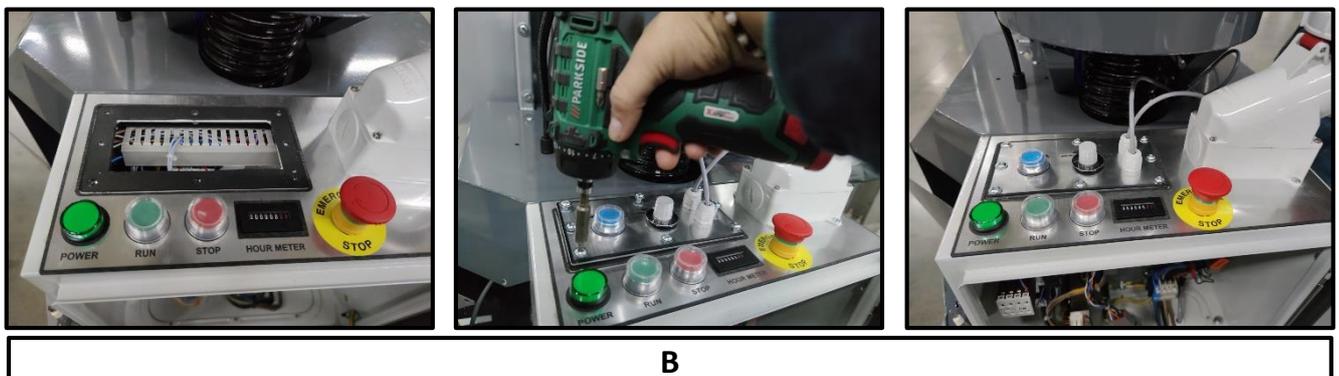
If you already possess V32E with manual filter cleaning, we give you the opportunity to purchase AUTOMATIC FILTER CLEANING (AFC) kit and install it to your vacuum. In order to do that follow the steps bellow:

**MAKE SURE THAT THE VACUUM IS TURNED OFF AND IT IS DISCONNECTED FROM THE POWER SUPPLY NETWORK!**

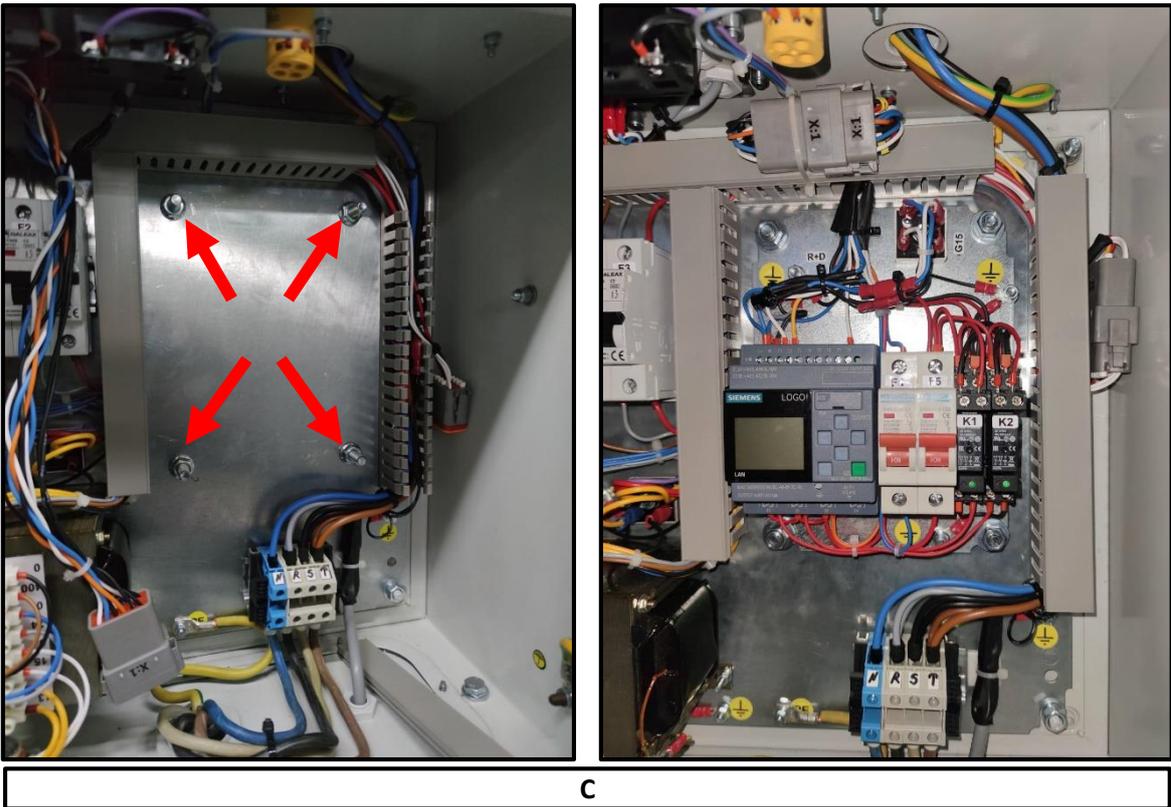
- A.** The AFC kit includes a command plate (A1) and control block (A2), which must be installed to the control board. First thing to do is to remove the safety plate by unscrewing the fasteners (A3).



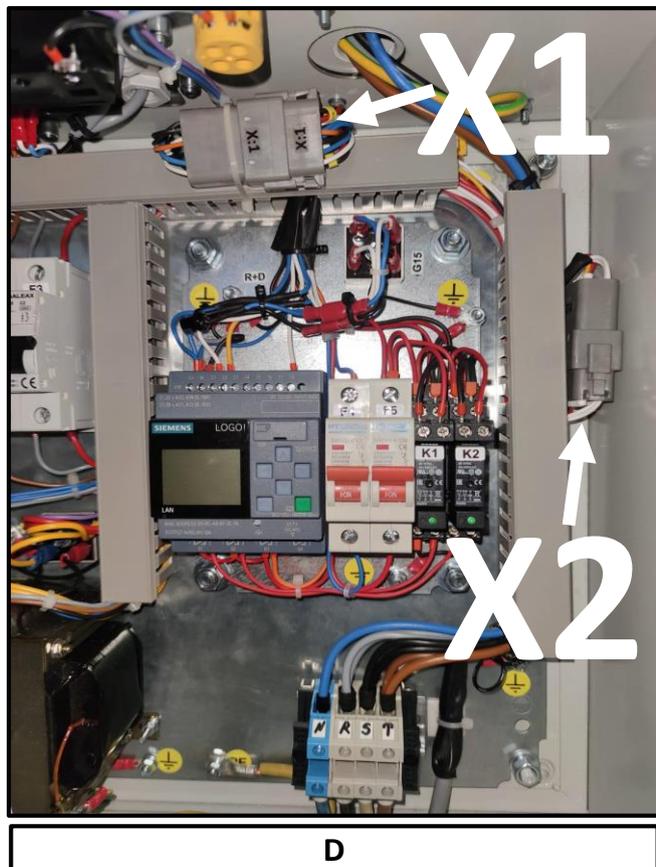
- B.** Mount the command plate (A1) in place of the safety plate and do not miss the sealing.



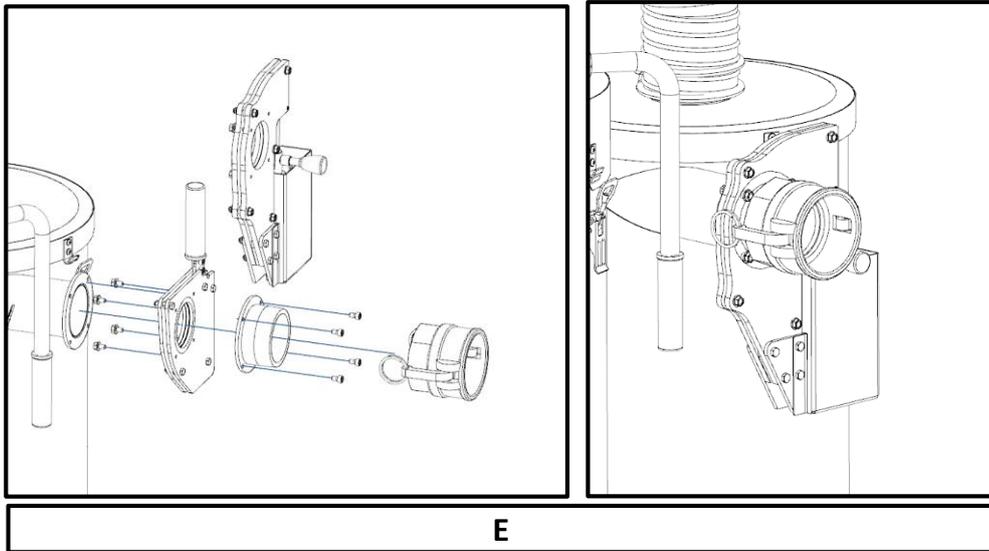
- C. Open the control board and inside you will see four studs with four nuts and that's where you must mount the control block (A2).



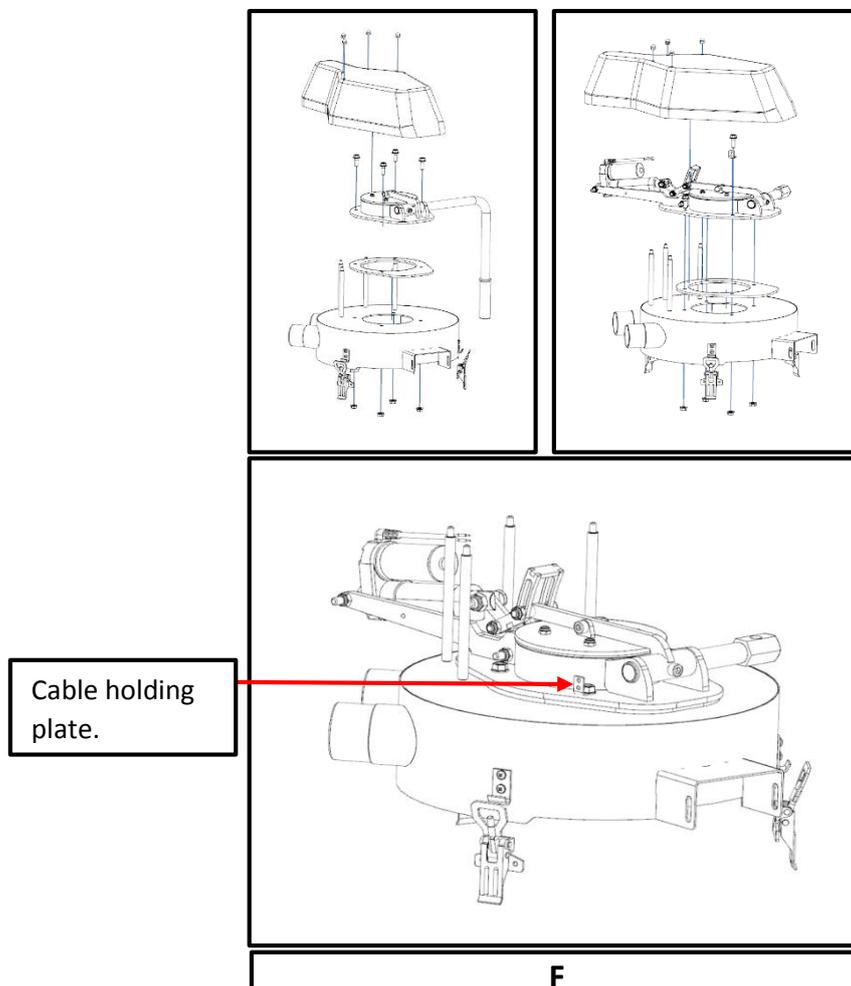
- D. After step A, B and C are completed, the command plate (A1) and the control block (A2) must connect to each other and to the vacuum via the deutsch connectors they come with. To connect (A1) with (A2) you must join the deutsch connectors marked with X1. And to connect the (A2) to the vacuum u must join the connectors marked with X2.



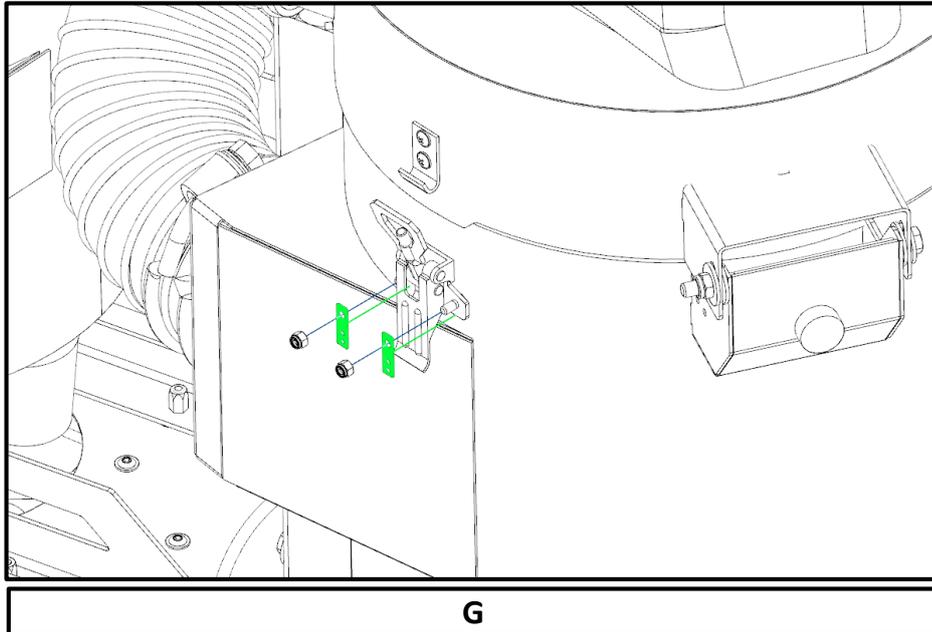
- E.** Dismount the manual inlet valve and replace it with the automatic one, provided with the AFC kit. The automatic valve is designed to be assembled in the same way with the same fasteners as the manual one just without the sealings.



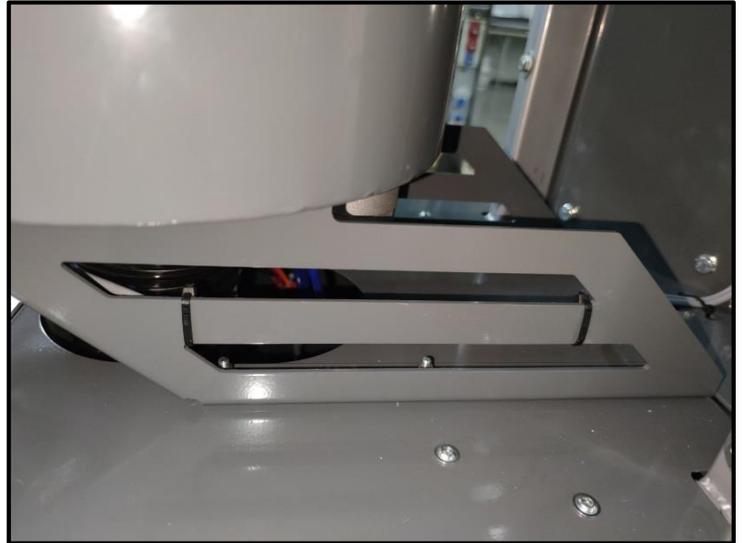
- F.** Remove the top cover. Dismount the manual cleaning valve and replace it with the automatic one. The automatic valve is designed to be mounted same as the manual one with the same fasteners and fit on the same place. Note that you need to install cable holding plate under one of the bolts as it is shown on the picture.



- G.** Two more cable holding plates come with the AFC kit. They must be mounted on one of the clamps based on the filter chamber as it is shown on the picture. In order to install them you need to dismount the clamp first and then mount it back with the plates.



- H.** The last step is to connect the wires from the command plate (A1) to the actuators. The (A1) is supplied with two cables marked with X3 and X4. The X3 cable must be connected to the actuator, situated on the inlet valve and the X4 with the one mounted on the head cover. In order to route the cables follow the pictures bellow in the shown order.





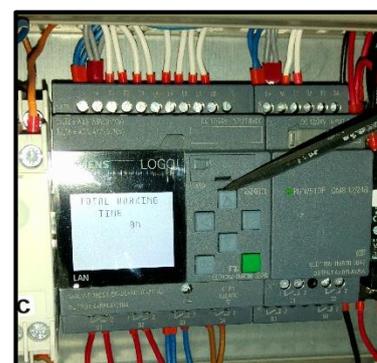
When you are ready and all the components are connected, mount back the top cover and connect the accumulator. Test if the automatic filter cleaning works properly.

## 9. TROUBLESHOOTING

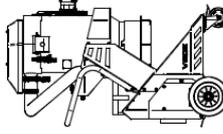
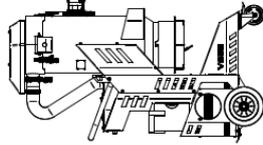
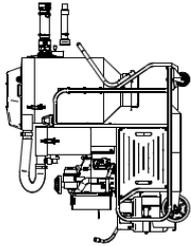
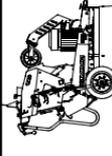
### Index of Problems and Solutions

VACUUM ISSUE OR SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
<b>MOTOR DOES NOT START</b>	NO POWER	CONNECT THE MACHINE
	SWITCH DEFECTIVE	REPLACE
<b>MOTOR DOES NOT START AND FORCED CLEANING BUTTON BLINKS</b>	WRONG PHASE SEQUENCE	OPEN THE CONTROL BOX AND CHECK LOGO FOR MESSAGES .
	EMERGENCY STOP BUTTON IS ACTIVATED	OPEN THE CONTROL BOX AND CHECK LOGO FOR MESSAGES.
<b>MOTOR STOPS IMMEDIATELY AND FORCED CLEANING BUTTON BLINKS</b>	MOTOR OVERLOAD	CLEAN THE FILTER (WHILE THE VACUUM IS TURNED OFF). REPLACE IF NECESSARY.
	MOTOR OVERTEMP	OPEN THE CONTROL BOX AND CHECK LOGO FOR MESSAGES.
	MOTOR BEARINGS OVERTEMP	OPEN THE CONTROL BOX AND CHECK LOGO FOR MESSAGES.
<b>MOTOR RUNS BUT THERE IS NO SUCTION</b>	HOSE NOT CONNECTED	CONNECT THE HOSE
	THE VACUUM HOSE HAS AN OBSTRUCTION OR HOLES PRESENT	CHECK THE HOSE FOR OBSTRUCTIONS AND CLEAR THEM AS NECESSARY. REPLACE THE HOSE IF VISIBLE HOLES ARE PRESENT
	THE VACUUM FILTER(S) HAS EXCESSIVE BLOCKAGE	ACTIVATE THE FILTER SHAKER LEVER TO CLEAN THE FILTER (WHILE THE VACUUM IS TURNED OFF). REPLACE IF NECESSARY
	NO PLASTIC BAG	INSTALL PLASTIC BAG
<b>MOTOR RUNS BUT SUCTION IS POOR</b>	DAMAGE TO THE HOSE	CHANGE HOSE
	BLOCKED FILTER	REMOVE THE FILTER(S) FROM THE VACUUM AND INSPECT FOR HOLES OR TEARS. REPLACE IF NECESSARY
	TOP COVER LOOSE	ADJUST
	THE VACUUM DUST CONTAINER/BAG IS FULL	FOLLOW THE PROCEDURE TO CLEAN THE MAIN FILTER, TURN OFF THE MOTORS AND CLEAN THE DUST COLLECTOR. REPLACE THE LONGOPAC® SECTION OF BAG FILLED WITH DUST AND DEBRIS
	THE VACUUM SEALS ARE MISALIGNED OR DAMAGED	MAKE SURE ALL RUBBER SEALS ARE INSTALLED AND ALIGNED PROPERLY. REPLACE IF ANY VISIBLE DAMAGE IS PRESENT
<b>DUST IS LEAKING FROM THE VACUUM DURING OPERATION</b>	DEFECTIVE OR LOOSE FILTER	ADJUST OR CHANGE
<b>AUTOMATIC FILTER CLEANING SYSTEM</b>	NO POWER SUPPLY TO THE LOGO OR THE ACTUATORS	CHECK THE CIRCUIT BREAKER "F4" IN CONTROL BOARD
<b>ABNORMAL NOISE</b>		ORDER SERVICE

**IMPORTANT:** To check the LOGO messages press the up arrow button to light the screen. After the corrective action, press the STOP button to clear the LGO message.

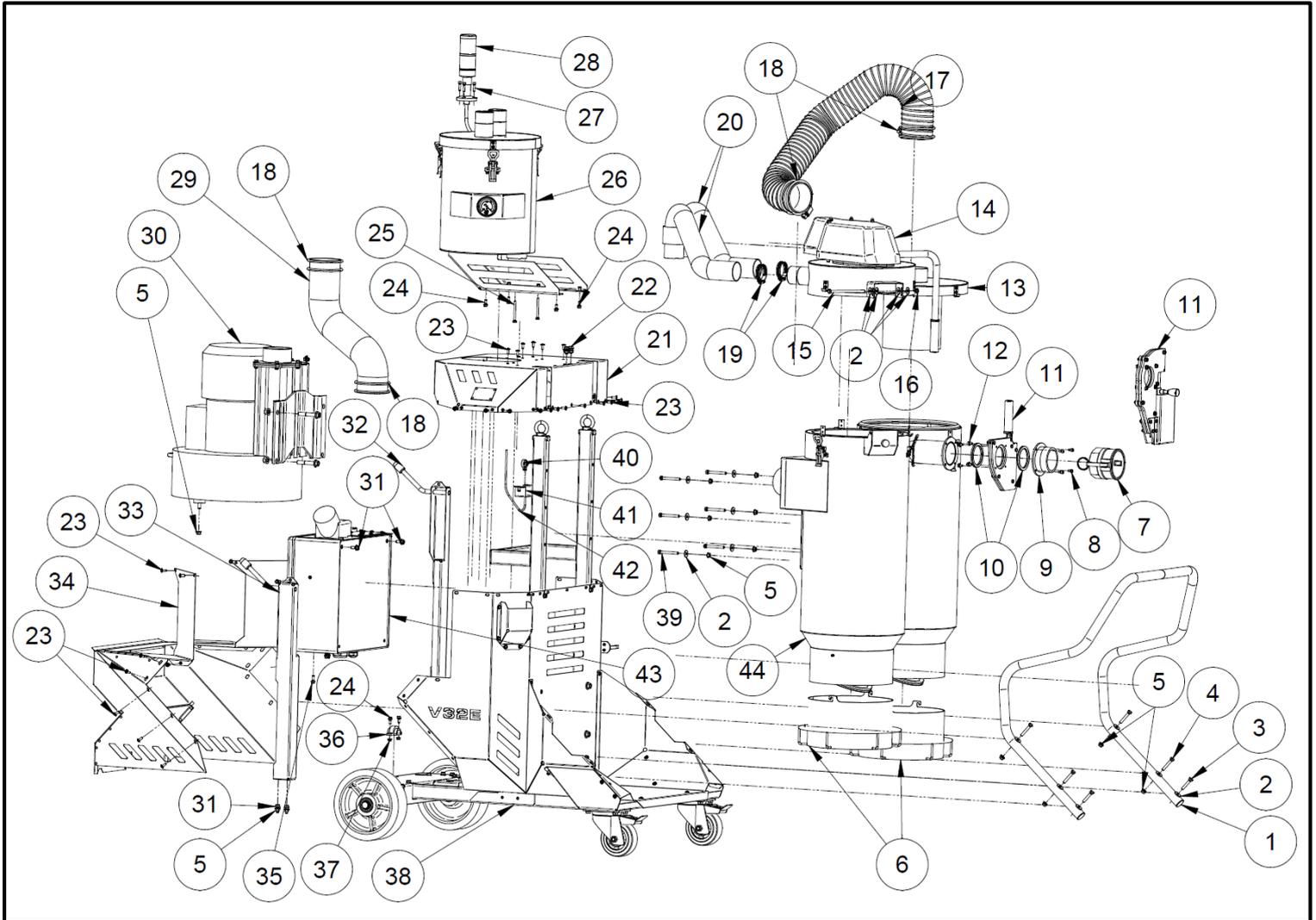


# 10. LAVINA® VACUUM ADAPTERS AND CONNECTIONS

<p>Adapter needed to connect the pre-separator's hose to the vacuum.</p>  <p><b>V20 SERIES</b> ELITE Part No: A71.00.00 X Part No: A70.00.00</p>  <p><b>V25 SERIES</b> ELITE Part No: A73.00.00 X Part No: 30316000116</p> <p><b>V20 ELITE SERIES V20 X SERIES</b></p>	<p><b>IMPORTANT:</b> if you want to connect certain vac model directly to a machine, different from the vac's model group (for example vac 20 with machine 25), the info from the selection below applies.</p> <p><b>V20 SERIES</b> ELITE Part No: A71.00.00 X Part No: A70.00.00</p> <p><b>V25 SERIES</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>V32 SERIES</b> ELITE DIRECT CONNECTION Part No A71.00.00 X DIRECT CONNECTION</p>	<p>Adapter needed to connect the vacuum's main hose (MH) to the pre-separator.</p> <p><b>V20 SERIES</b> ELITE Part No: A71.00.00 X Part No: A70.00.00</p> <p><b>V25 SERIES</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>V32 SERIES</b> ELITE DIRECT CONNECTION Part No A71.00.00 X DIRECT CONNECTION</p>	<p><b>V20 ELITE SERIES V20 X SERIES</b></p>  <p><b>V25 ELITE SERIES V25 X SERIES</b></p>	<p><b>V20 SERIES TO L25 ELITE</b> ELITE Part No: A71.00.00 X Part No: A70.00.00</p> <p><b>V20 SERIES TO L25 X</b> ELITE Part No: A71.00.00 X Part No: A70.00.00</p> <p><b>V25 SERIES TO L25 ELITE</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>V25 SERIES TO L25 X</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>V32 SERIES TO L25 ELITE</b> ELITE DIRECT CONNECTION Part No A71.00.00 X DIRECT CONNECTION</p> <p><b>V32 SERIES TO L25 X</b> ELITE DIRECT CONNECTION Part No A71.00.00 X DIRECT CONNECTION</p>	<p><b>V20 SERIES TO L25 ELITE</b> ELITE Part No: A71.00.00 X Part No: A70.00.00</p> <p><b>V20 SERIES TO L25 X</b> ELITE Part No: A71.00.00 X Part No: A70.00.00</p> <p><b>V25 SERIES TO L25 ELITE</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>V25 SERIES TO L25 X</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>V32 SERIES TO L25 ELITE</b> ELITE DIRECT CONNECTION Part No A71.00.00 X DIRECT CONNECTION</p> <p><b>V32 SERIES TO L25 X</b> ELITE DIRECT CONNECTION Part No A71.00.00 X DIRECT CONNECTION</p>	<p><b>V25 SERIES TO L32 ELITE</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>V25 SERIES TO L32 X</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>LAVINA VACUUM MAIN HOSE (MH)</b> V32 SERIES MAIN HOSE (both X and ELITE) V32GX-00.40.00 V25 SERIES MAIN HOSE (both X and ELITE) V25X-00.40.00 V20 X SERIES MAIN HOSE V20X-00.40.00 V20 ELITE SERIES MAIN HOSE V20E50.00.00</p> <p><b>IMPORTANT:</b> We made it possible to connect a smaller vacuum to a larger machine (e.g. V20 with a L25) however, doing so will yield less than satisfactory results. We strongly recommend using the same model group machine and vacuum, or a larger vacuum with a smaller machine (e.g. L25 with V25 or V32).</p>	<p><b>V32,38 ELITE SERIES V32,38 X SERIES</b></p>  <p>Series 32 and 38 of machines and vacuums don't need any adaptors as they all use 3" Camlock connections.</p>	<p><b>V20 SERIES</b> ELITE Part No: A71.00.00 X Part No: A70.00.00</p> <p><b>V25 SERIES</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>V32 SERIES</b> ELITE DIRECT CONNECTION Part No A71.00.00 X DIRECT CONNECTION</p>	<p><b>V25 SERIES TO L32 ELITE</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>V25 SERIES TO L32 X</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>LAVINA VACUUM MAIN HOSE (MH)</b> V32 SERIES MAIN HOSE (both X and ELITE) V32GX-00.40.00 V25 SERIES MAIN HOSE (both X and ELITE) V25X-00.40.00 V20 X SERIES MAIN HOSE V20X-00.40.00 V20 ELITE SERIES MAIN HOSE V20E50.00.00</p> <p><b>IMPORTANT:</b> We made it possible to connect a smaller vacuum to a larger machine (e.g. V20 with a L25) however, doing so will yield less than satisfactory results. We strongly recommend using the same model group machine and vacuum, or a larger vacuum with a smaller machine (e.g. L25 with V25 or V32).</p>	<p><b>V25 SERIES TO L32 ELITE</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>V25 SERIES TO L32 X</b> ELITE Part No: A71.00.00 X Part No: A71.00.00</p> <p><b>LAVINA VACUUM MAIN HOSE (MH)</b> V32 SERIES MAIN HOSE (both X and ELITE) V32GX-00.40.00 V25 SERIES MAIN HOSE (both X and ELITE) V25X-00.40.00 V20 X SERIES MAIN HOSE V20X-00.40.00 V20 ELITE SERIES MAIN HOSE V20E50.00.00</p> <p><b>IMPORTANT:</b> We made it possible to connect a smaller vacuum to a larger machine (e.g. V20 with a L25) however, doing so will yield less than satisfactory results. We strongly recommend using the same model group machine and vacuum, or a larger vacuum with a smaller machine (e.g. L25 with V25 or V32).</p>	<p><b>V32,38 ELITE SERIES V32,38 X SERIES</b></p>  <p><b>L32,38 ELITE SERIES L32,38 X SERIES</b></p>	<p><b>PART DESCRIPTION TABLE</b></p> <table border="1"> <tr> <td>A70.00.00</td> <td>CAMLOCK ADAPTER 3inM-to-2inF</td> </tr> <tr> <td>A71.00.00</td> <td>CAMLOCK ADAPTER 3inM-to-2.5inF</td> </tr> <tr> <td>30316000116</td> <td>CAMLOCK ADAPTER 3inF-to-2inM</td> </tr> <tr> <td>A73.00.00</td> <td>CAMLOCK ADAPTER 3inF-to-2.5inM</td> </tr> <tr> <td>A76.00.00</td> <td>ADAPTER Ø50-to-2.5inF</td> </tr> <tr> <td>V25X-00.60.00</td> <td>ADAPTER 2.5inM-to-Ø50</td> </tr> </table>	A70.00.00	CAMLOCK ADAPTER 3inM-to-2inF	A71.00.00	CAMLOCK ADAPTER 3inM-to-2.5inF	30316000116	CAMLOCK ADAPTER 3inF-to-2inM	A73.00.00	CAMLOCK ADAPTER 3inF-to-2.5inM	A76.00.00	ADAPTER Ø50-to-2.5inF	V25X-00.60.00	ADAPTER 2.5inM-to-Ø50
A70.00.00	CAMLOCK ADAPTER 3inM-to-2inF																							
A71.00.00	CAMLOCK ADAPTER 3inM-to-2.5inF																							
30316000116	CAMLOCK ADAPTER 3inF-to-2inM																							
A73.00.00	CAMLOCK ADAPTER 3inF-to-2.5inM																							
A76.00.00	ADAPTER Ø50-to-2.5inF																							
V25X-00.60.00	ADAPTER 2.5inM-to-Ø50																							

# 11. LAVINA® V32E SPARE PARTS

## 11.1 GENERAL PARTS



**Figure 11.1**

**IMPORTANT:** As mentioned above, there are two variations of V32GE. One with manual filter cleaning and one with automatic one. Parts marked with **MFC** respectively belong to the manual model and those with **AFC** to the automatic variation of the vacuum.

AFC – Automatic filter cleaning;

MFC – Manual filter cleaning;

LAVINA® V32E GENERAL PARTS									
No.	Item No.	Description	Pcs.	No.	Item No.	Description	Pcs.		
1	V32GE00.20.00	Handle	1	24	30301210051	Bolt M6x16 DIN 6921	6		
2	30301221019	Washer M8 DIN 9021	13	25	30301210165	Bolt M6x70 DIN 933	2		
3	30301210078	Bolt M8x45 DIN 933	2	26	V32GE60.00.00	HEPA filter chamber	1		
4	30301210106	Bolt M8x50 DIN 933	4	27	30301230035	Screw M6x25 DIN912	4		
5	30301240095	Nut M8 DIN 6923	12	28	V32GE00.70.00	Signal lamp	1		
6	VE10.00.00	Longopac bag holder	2	29	V32GE00.00.04	Hose	1		
7	D300-AL	Aluminum camlock fitting	1	30	V32EU	V32EU40.00.00	Power unit	1	
8	30301230289	Screw M6x10 DIN 912	4		V32E230&480	V32E40.00.00	Power unit	1	
9	V32GX-13.00.00	Camlock D300 flange	1	31	30301210031	Bolt M8x20 DIN 6921	6		
10	MFC	V25GE12.00.00	Sealing ring	2	32	V32E00.30.00	Left holder for electrical box	1	
11	MFC	V25GE11.00.00	Inlet valve assembly	1	33	V32E00.20.00	Right holder for electrical box	1	
11	AFC	V32GX-14.00.00	Inlet valve assembly	1	34	V32E00.10.00	Rear cover	1	
12	30301210043	Bolt M6x10 DIN 6921	4	35	30301210117	Bolt M6x20 DIN 6921	4		
13	V32GE50.00.00	Pre-separator top cover	1	36	V32X-50.00.00	Latch	1		
14	MFC	V32GE30.00.00	Top cover assembly	1	37	30301240098	Nut M6 DIN 6923	2	
14	AFC	V32GEAFC30.00.00	Top cover assembly AFC	1	38	V32E20.00.00	Carriage	1	
15	30301210166	Bolt M8x130 DIN 931	1	39	30301210113	Bolt M8x70 DIN933	6		
16	30301240106	Nut M8 DIN 985	1	40	V32GE00.80.00	Pressure switch	1		
17	V32GE00.00.03	Hose	1	41	V32GE00.40.00	Pressure switch plate	1		
18	30308000415	Hose clamp	4	42	V32GE00.00.06	Pressure switch hose	1		
19	30308000399	Hose clamp	2	43	EU	V32EU70.00.00	Control board	1	
20	V32E00.60.00	Hose with cuff	2		230	V32E23070.00.00	Control board	1	
	20.1	V32E00.60.00	Hose	1		480	V32E48070.00.00	Control board	1
	20.2	30316000057	Cuff	1		EU-AFC	V32EUAFC70.00.00	Control board	1
21	V32E00.40.00	Board assembly	1		230-AFC	V32E230AFC70.00.00	Control board	1	
22	30301210072	Bolt M8x16 DIN 6921	2		480-AFC	V32E480AFC70.00.00	Control board	1	
23	30301230243	Screw M6x16 ISO 7380F	39	44		V32GE10.00.00	Vacuum chambers	1	

### 11.2 VACUUM HEAD COVER

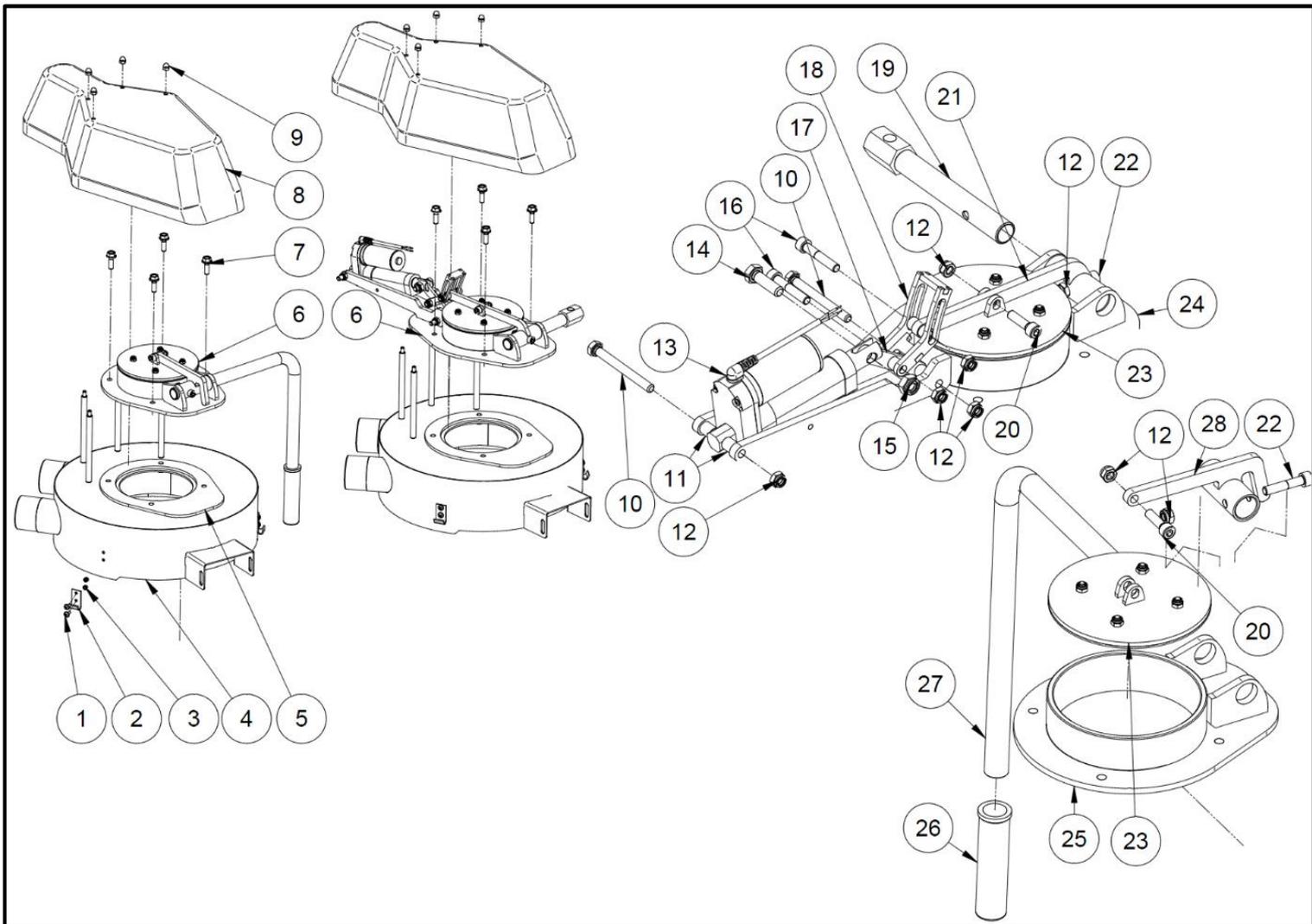


Figure 11.2

**Note:**

- 1. The clamp set (No 2) contains the clamp and the attaching plate and they can't be ordered separately (fig. 11.2.1).

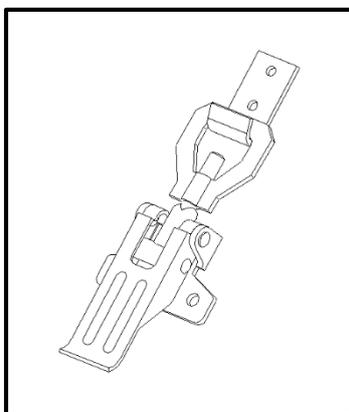


Figure 11.2.1

<b>LAVINA® V32E VACUUM HEAD COVER - V32GE30.00.00 - Manual filter cleaning</b>									
<b>V32GEAFC30.00.00 – Automatic filter cleaning</b>									
<b>No.</b>		<b>Item No.</b>	<b>Description</b>	<b>Pcs.</b>	<b>No.</b>		<b>Item No.</b>	<b>Description</b>	<b>Pcs.</b>
1		30301230065	Screw M4x10 DIN 967	6	14	AFC	?	Bolt M10x35DIN 933	1
2		30329000040	Clamp set	3	15	AFC	30301240092	Nut M10 DIN 985	1
3		30301240114	Nut M4 DIN 985	6	16	AFC	30301230112	Screw M8x45 DIN 912	2
4		V32GE30.10.00	Vacuum head body	1	17	AFC	V32GX-37.00.00	Fork	1
5		V32GE30.00.01	Seal	1	18	AFC	V32GX-36.00.00	Fork	1
6	MFC	V32GE30.20.00	Valve - manual cleaning	1	19	AFC	V32GE30.32.00	Handle for emergency filter cleaning	1
6	AFC	V32GE30.30.00	Valve – automatic filter cleaning	1	20	AFC	30301230032	Screw M8x30 DIN 912	AFC-1 MFC-1
7		30301210038	Bolt M8x25 DIN 6921	4	21	AFC	V32GX-38.00.00	Flap beam	1
7.1		30301240095	Nut M8 DIN 6923	4	22	AFC	?	Screw M8x40 DIN912	AFC-1 MFC-1
8		V32GE30.00.05	Top cover	1	23	AFC	V32GX-32.00.00	Flap	AFC-1 MFC-1
9		30301240003	Nut M6 DIN 1587	4	24	AFC	V32GE30.31.00	Flap base	1
10	AFC	30301210120	Bolt M8x80 DIN 933	2	25	MFC	V32GE30.22.00	Flap Base	1
11	AFC	V32GX-30.00.06	Sleeve	2	26	MFC	30329000014	Rubber handle	1
12	AFC	30301240106	Nut	AFC-6 MFC-2	27	MFC	V32GE30.20.01	Manual cleaning lever	1
13	AFC	30305000023	Actuator	1	28	MFC	V32GE30.21.00	Flap beam	1

11.3 MAIN FILTER CHAMBER

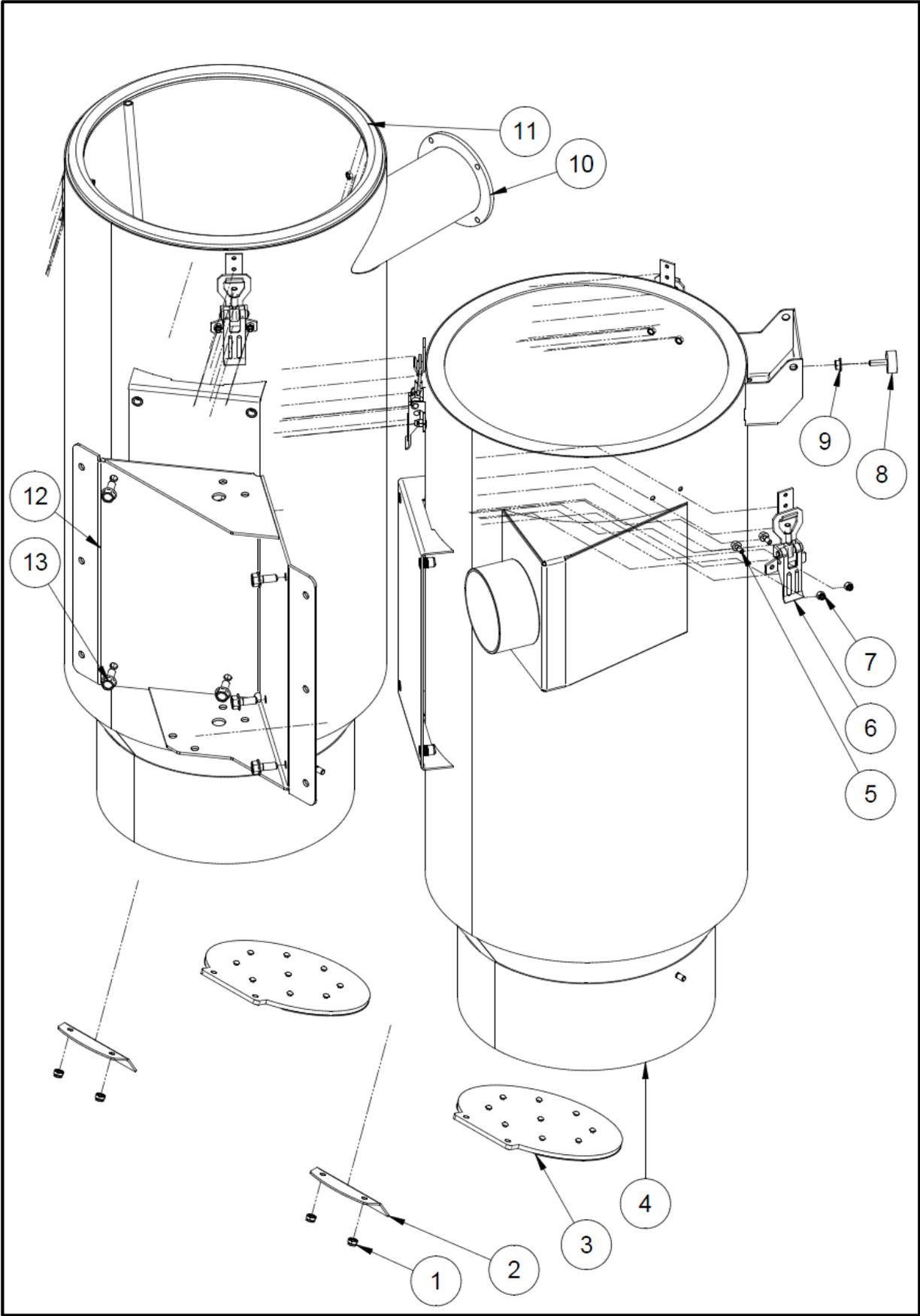


Figure 21.3

LAVINA® V32E FILTER CHAMBER - V32GE10.00.00							
No.	Item No.	Description	Pcs.	No.	Item No.	Description	Pcs.
1	30301240103	Nut M6 DIN 985	4	8	30310000010	Buffer	1
2	V25GE10.00.02	Flap restrictive plate	2	9	30301240098	Nut M6 DIN 6923	1
3	V25GE14.00.00	Flap	2	10	V32GE10.20.00	Pre-separator body	1
4	V32GE10.10.00	Filter chamber body	1	11	V32GE10.00.02	Seal	1
5	30301210030	Bolt M5x12 DIN 6921	12	12	V32GE10.00.01	Body holder	1
6	Look at 11.2	Clamp set	6	13	30301210031	Bolt M8x20 DIN 6921	8
7	30301240110	Nut M5 DIN 982	12				

The note from 11.2 applies here as well.

## 11.4 INLET VALVE

### 11.4.1 INLET VALVE MANUAL FILTER CLEANING

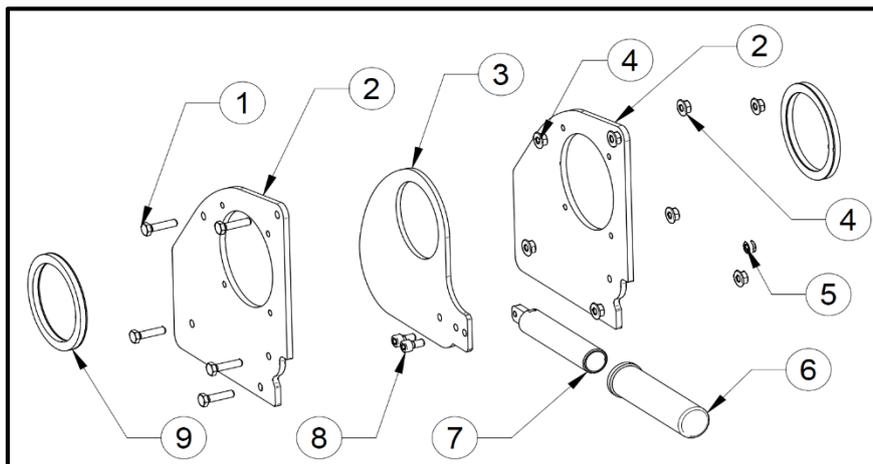
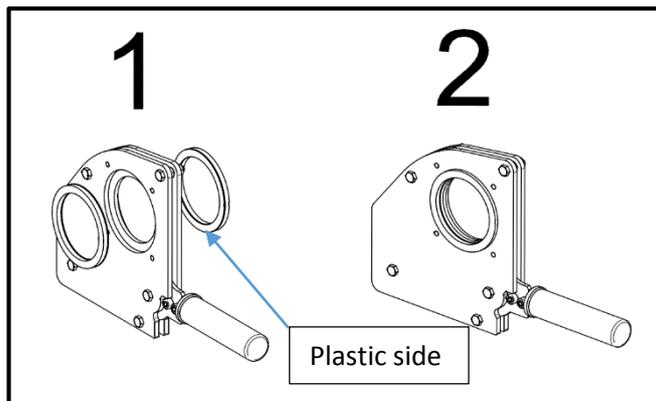


Figure 11.4.1

LAVINA® V32E INLET VALVE MANUAL FILTER CLEANING – V25GE11.00.00-K							
No.	Item No.	Description	Pcs.	No.	Item No.	Description	Pcs.
1	30301210077	Bolt M6x25 DIN 933	5	6	30329000014	Rubber handle	1
2	V25GE11.00.02	Inlet valve flange	2	7	V20X-14.10.00	Handle body	1
3	V25GE11.00.1	Inlet valve plate	1	8	30301230048	Screw M6x12 DIN 912	2
4	30301240098	Nut M6 DIN 6923	8	9	V25GE12.00.00	Sealing ring	2
5	30301240103	Nut M6 DIN 985	1	10			

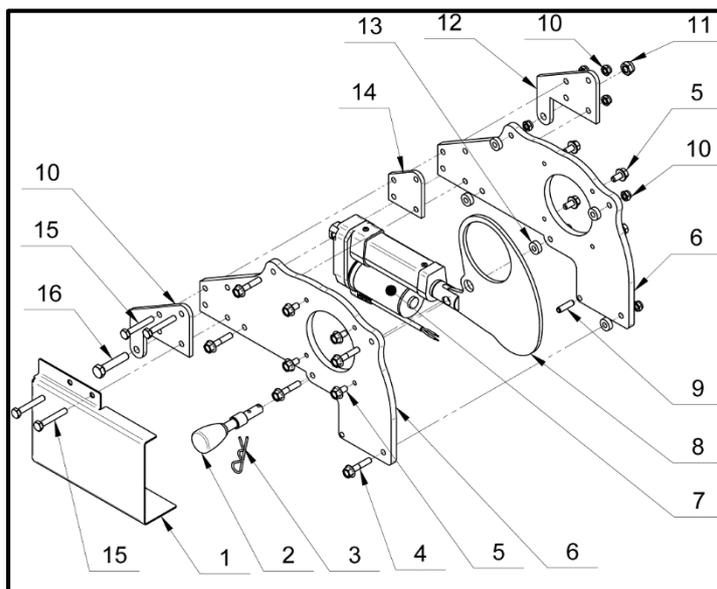
**Note:**

1. When mounting the inlet valve the bolts pos. 8 and 12 at **fig. 11.1** must be tightened at 6 Nm.
2. Before mounting the inlet valve make sure both sealing rings are in position. The plastic side of the sealing must be in contact with the inlet valve (fig. 11.4.1.1).



**Figure 11.4.1.1**

**11.4.2 INLET VALVE AUTOMATIC FILTER CLEANING**



**Figure 11.4.2**

<b>LAVINA®V32E INLET VALVE AUTOMATIC FILTER CLEANING - V32GX-14.00.00</b>							
<b>No.</b>	<b>Item No.</b>	<b>Description</b>	<b>Pcs.</b>	<b>No.</b>	<b>Item No.</b>	<b>Description</b>	<b>Pcs.</b>
1	V32GX-14.00.07	Guard	1	9	30301280008	Spring Pin D6x22DIN1481	1
2	V32GX-14.10.00	Serving Handle Assembly	1	10	30301240103	Nut M6DIN985	9
3	30301290005	Hairpin Cotter	1	11	30301240106	Nut M8DIN985	1
4	30301210087	Bolt M6X30DIN6921	5	12	V32GX-14.00.02	Fork	2
5	30301210048	Bolt M6X12DIN6921	8	13	V32GX-14.00.04	Distance Bushing	5
6	V32GX-14.00.01	Base plate	2	14	V32GX-14.00.05	Distance Plate	1
7	30305000023	Actuator CAHB10A2A	1	15	30301210041	Bolt M6X40DIN933	4
8	V32GX-14.00.03	Valve 3in	1	16	30301210004	Bolt M8X40DIN933	1

## 11.5 CARRIAGE

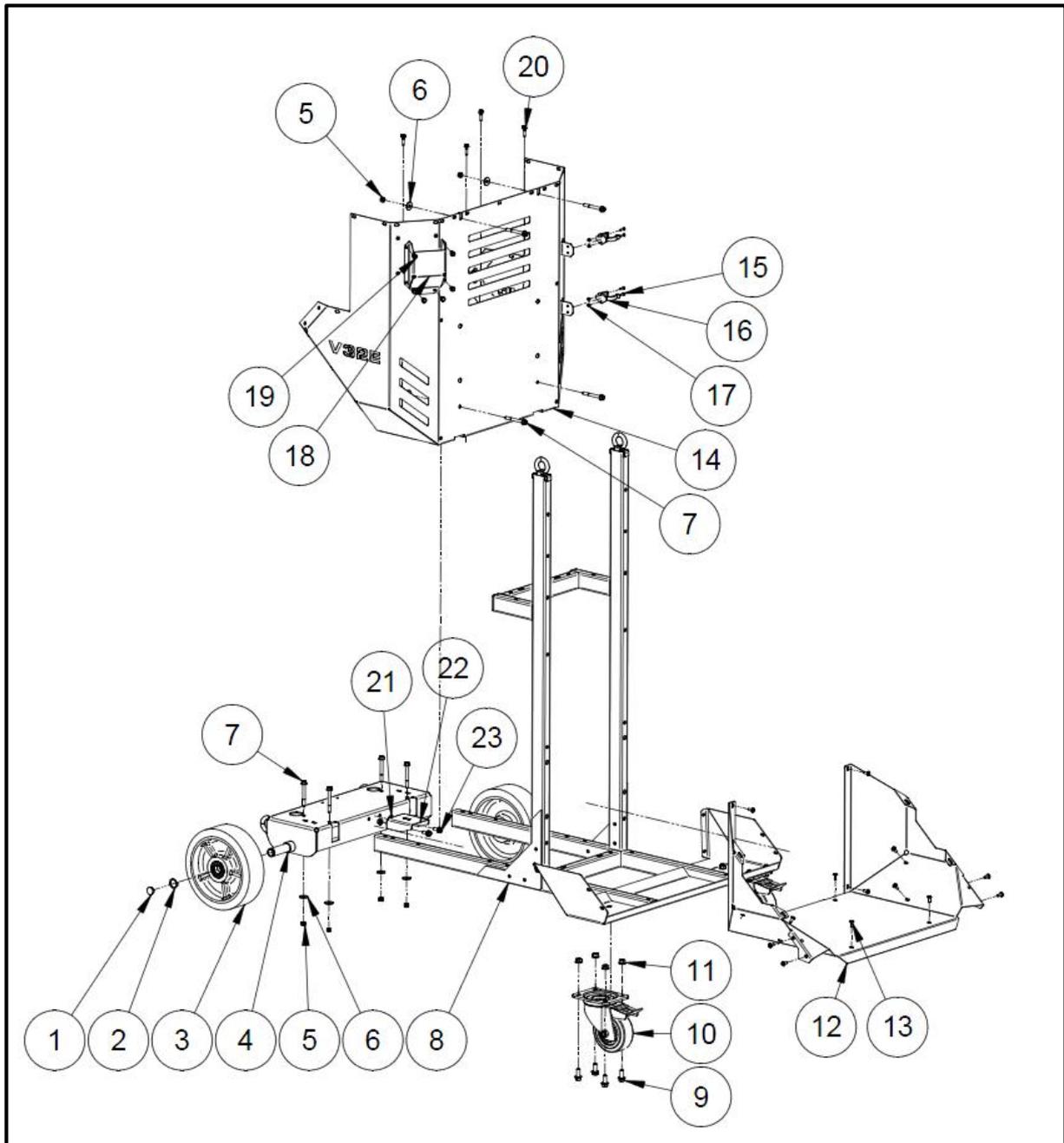


Figure 11.5

**NOTE:** In order to replace a caster locking wheel pos. 10, the front base plate pos. 12 must be dismounted first.

<b>LAVINA® V32E CARRIAGE - V32E20.00.00</b>							
<b>No.</b>	<b>Item No.</b>	<b>Description</b>	<b>Pcs.</b>	<b>No.</b>	<b>Item No.</b>	<b>Description</b>	<b>Pcs.</b>
1	40401000112	Cap	2	13	30301230243	Screw M6x16 ISO 7380F	16
2	30301250036	Circlip B25x1.5 A2 DIN471	2	14	V32GE20.20.00	Middle base plate	1
3	30312000021	Wheel	2	15	30301230210	Screw M4x16 DIN 7991	4
4	V32GE22.00.00	Rear wheels holder	1	16		Plastic clamp for steel wand	2
5	30301240106	Nut M8 DIN 985	10	17	30301240114	Nut M4 DIN 985	4
6	30301221019	Washer M8 DIN 9021	10	18	V32GE20.00.01	Pocket	1
7	30301210069	Bolt M8x70 DIN 6921	10	19	30301210051	Bolt M6x16 DIN 6921	6
8	V32GE21.00.00	Frame	1	20	30301210107	Bolt M6x25 DIN 6921	4
9	30301210096	Bolt M10x25 DIN 6921	8	21	30301240095	Nut M8 DIN 6923	2
10	30312000057	Caster locking wheel	2	22	V32E20.00.01	Blower base plate	1
11	30301240084	Nut M10 DIN 6923	8	23	30301210031	Bolt M8x20 DIN 6921	2
12	V32GE20.10.00	Front base plate	1	24			

## 11.6 HEPA FILTER CHAMBER

LAVINA® V32E HEPA FILTER CHAMBER			
No.	Item No.	Description	Pcs.
1	30316000079	Relief valve	1
2	V32GE60.11.00	HEPA chamber body	1
3	30301240090	Nut M5 DIN 985	6
4	<b>Look at 11.2</b>	Clamp set	3
5	30301210030	Bolt M6x12 DIN 6921	6
6	30301240092	Nut M10 DIN 985	1
7	30301221041	Washer M14 DIN 9021	1
8	V32GE60.20.01	Stud	1
9	30301240084	Nut M10 DIN 6923	2
10	30301230097	Screw M4x8 DIN 967	6
11	30301240114	Nut M4 DIN 985	6
12	V32GE60.21.00	HEPA chamber head cover	1
13	V32GE60.10.01	Sealing	1
14	30302000131	O ring	1
15	30313000187	Vacuum gauge	1

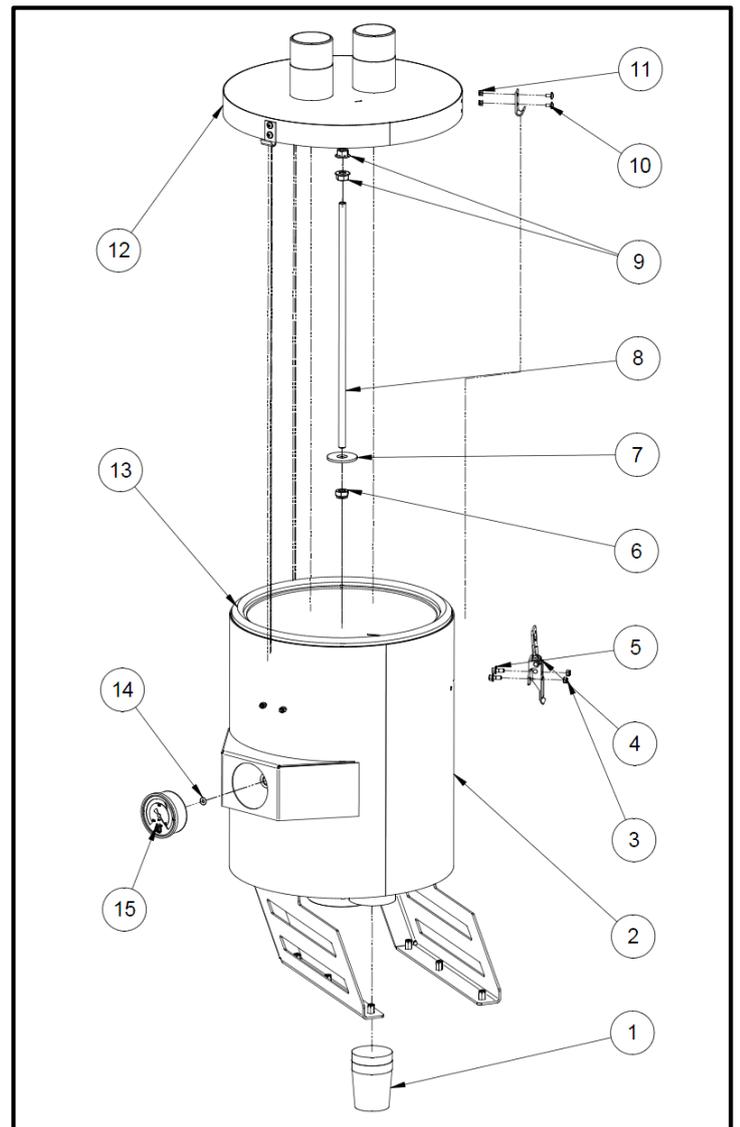


Figure 11.6

**IMPORTANT!!!**

**When changing the HEPA filter make sure always to replace the nut pos.6 with new one!**

11.7 POWER UNIT

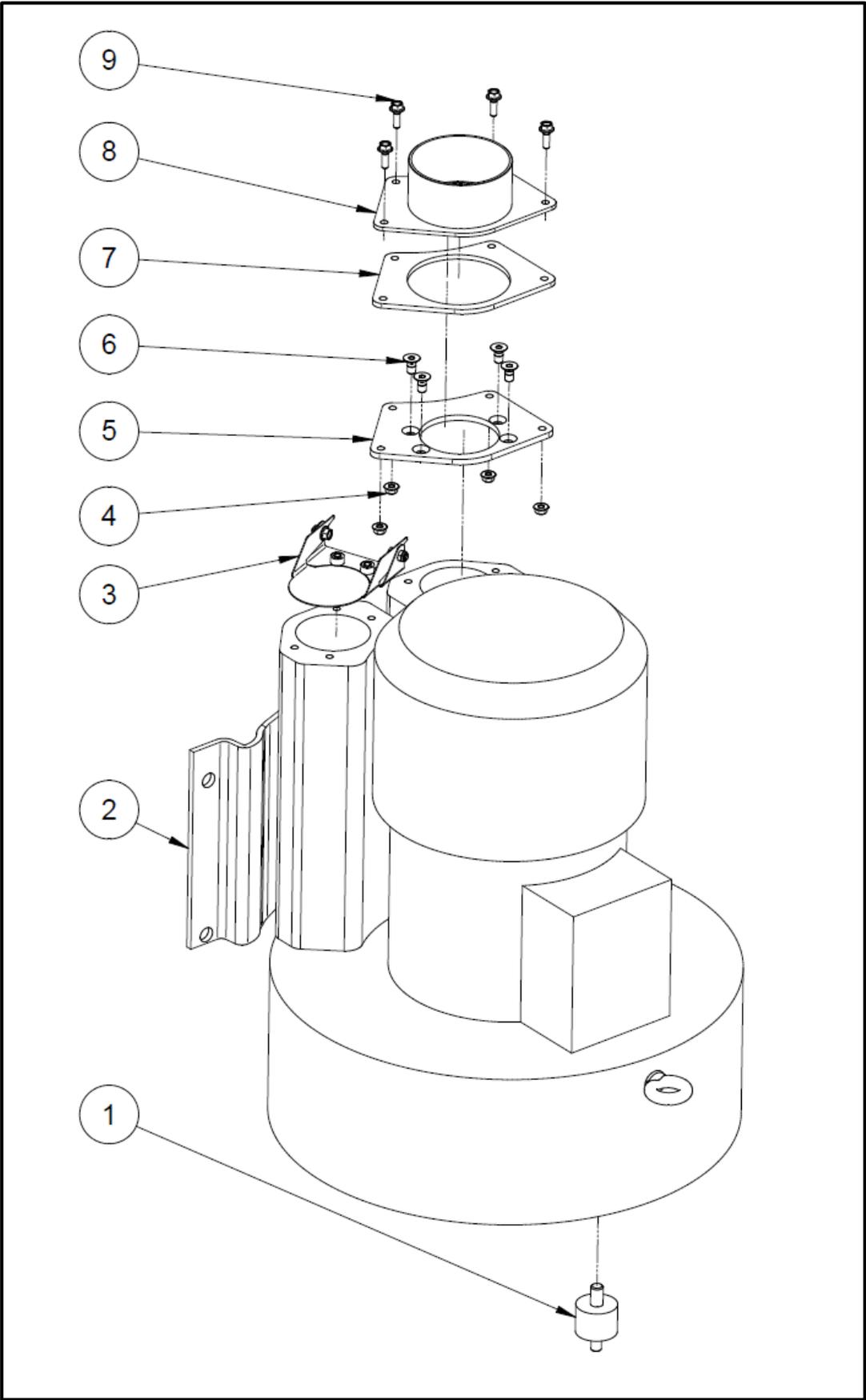


Figure 11.7

LAVINA® V32E POWER UNIT - V32E40.00.00								
LAVINA® V32EU POWER UNIT - V32EU40.00.00								
No.	Item No.	Description	Pcs.	No.	Item No.	Description	Pcs.	
1	3031000009	Buffer	1	5	V32GE40.00.04	Transitional plate	1	
2	EU	V32EU41.00.00	Blower assembly	1	6	30301230056	Screw M8x16 DIN 7991	4
	230&480	V32E41.00.00	Blower assembly	1	7	V32GE40.00.05	Seal	1
3	V20GX40.20.00	Flap	1	8	V32GE40.40.00	Inlet pipe	1	
4	30301240098	Nut M6 DIN 6923	4	9	30301210117	Bolt M6x20 DIN 6921	4	

### 11.8 CONTROL BOARD

#### 11.8.1 V32EU

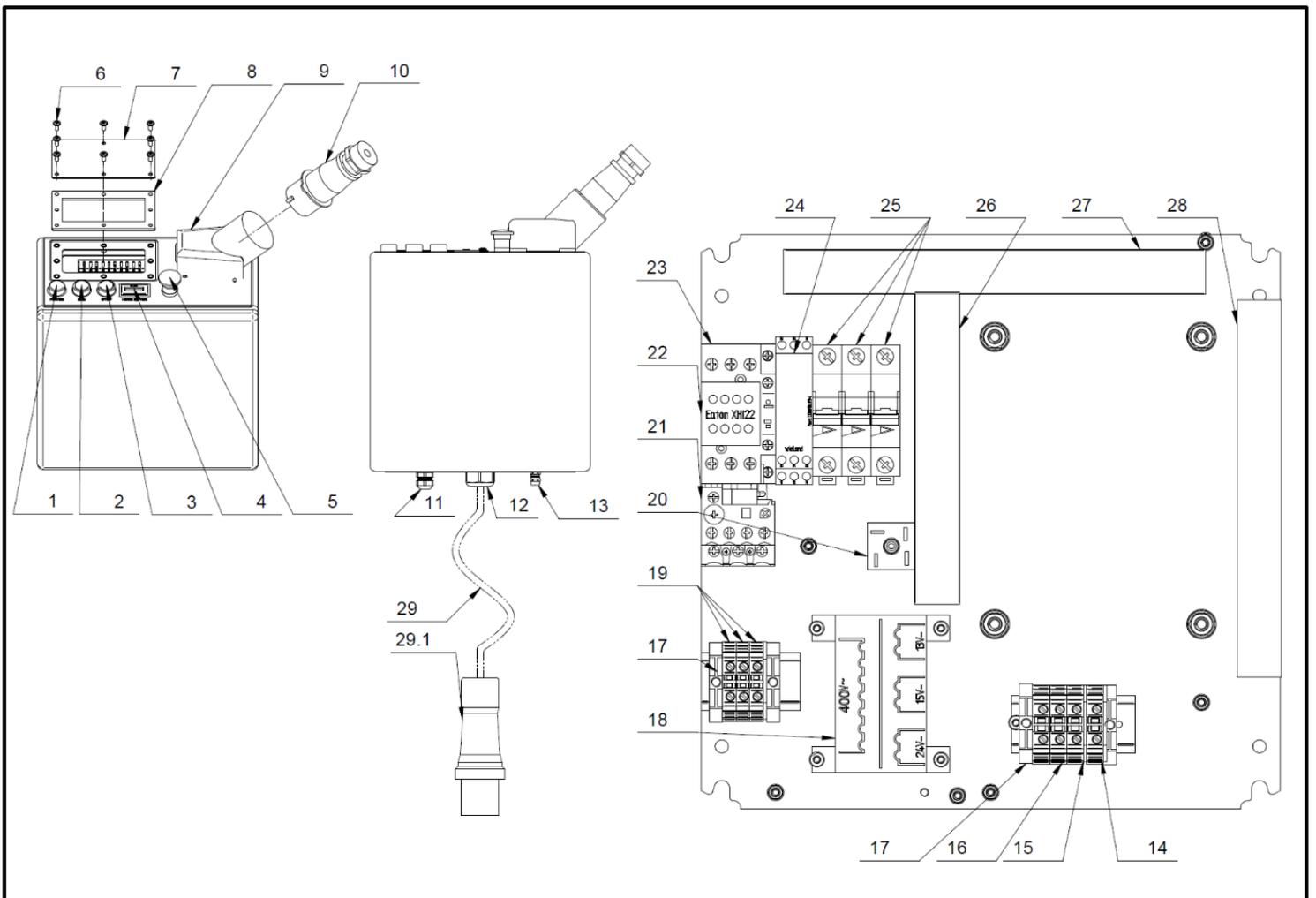


Figure 11.8.1

<b>CONTROL BOARD V32EU - V32EU70.00.00</b>							
<b>No.</b>	<b>Item No.</b>	<b>Description</b>	<b>Pcs.</b>	<b>No.</b>	<b>Item No.</b>	<b>Description</b>	<b>Pcs.</b>
1	30311000740	Lamp	1	17	30311000122	Terminal fixing plate	4
2	30311000701	Button	1	18	30328000037	Transformer	1
3	30311000700	Button	1	19	30311000200	Terminal 6mm grey	3
4	30313000153	Hour meter	1	20	30311000099	Rectifier	1
5	30311000717	EMG stop button	1	21	30311000205	Overload relay	1
6	30301230243	Screw M6x16 ISO 7380F	8	22	30311000516	Contactor	1
7	V32EU70.00.02	Plate	1	23	30311000149	Contactor	1
8	V32EU70.00.03	Sealing	1	24	30311000503	Relay	1
9	30311000807	Panel socket/female/	1	25	30311000612	Circuit barker	3
10	30311000148	Plug	1	26	V32EU70.20.03	Cable canal	1
11	30311000405	Cable gland M25x1.5	1	27	V32EU70.20.02	Cable canal	1
12	30311000415	Cable gland M40x1.5	1	28	V32EU70.20.04	Cable canal	1
13	30311000401	Cable gland M16x1.5	1	29	V32X-400-E-90.10.00	Power cable (Full cable assembly)	1
14	30311000187	Terminal 10mm blue	1	29.1	30311000185	Plug (only plug )	1
15	30311000181	Terminal plate	3	29.2	V32X-400-E-90.11.00	Power cable (only cable)	1
16	30311000172	Terminal 10mm grey	3	30			

NOTE: Buttons pos. 2 and 3 are equipped with silicon protection cover 30311000750.

11.8.2 V32E 230V AND V32E 480V

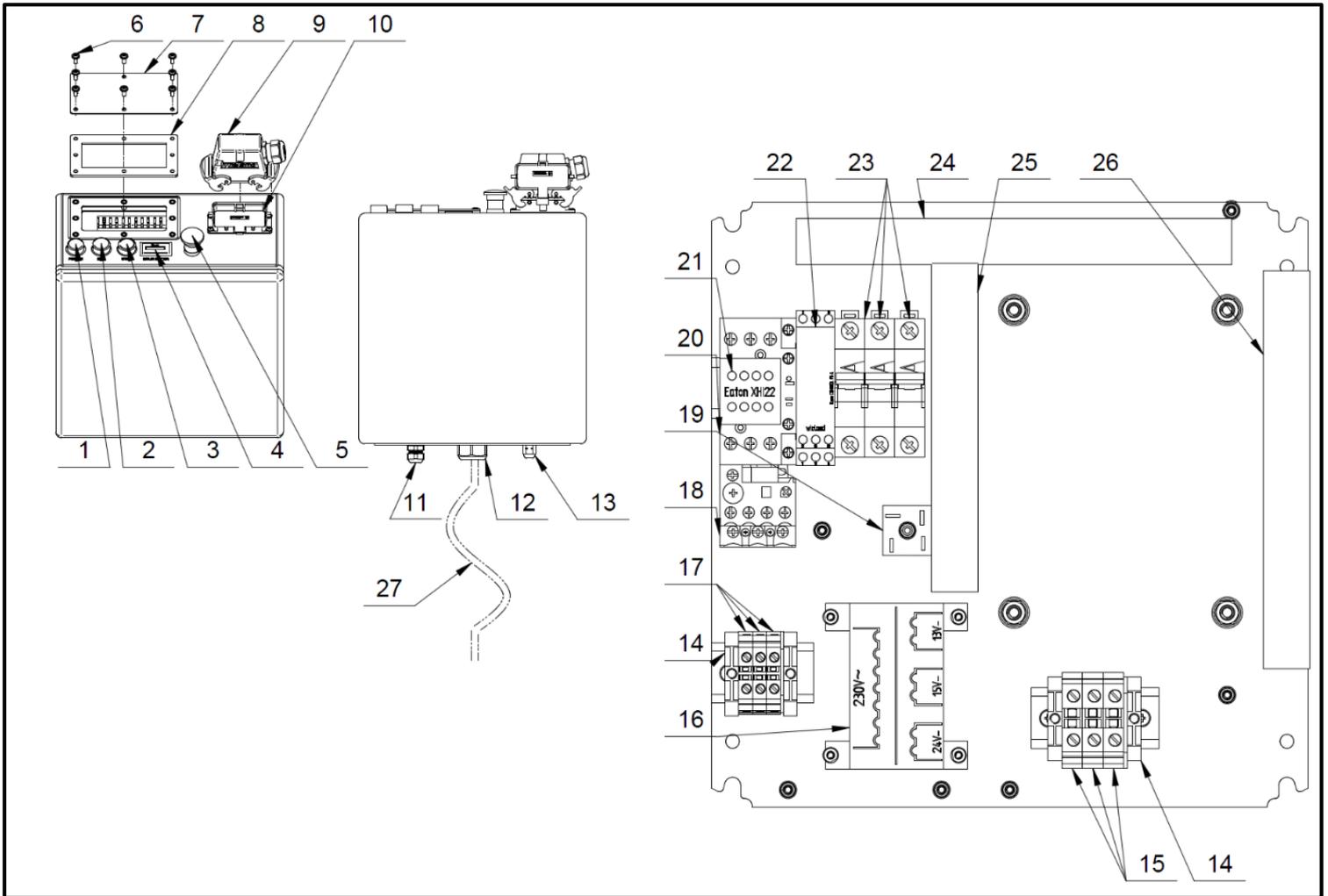


Figure 11.8.2

**CONTROL BOARD V32E 230V - V32E23070.00.00****CONTROL BOARD V32E 480V - V32E48070.00.00**

No.		Item No.	Description	Pcs.	No.		Item No.	Description	Pcs.
1	ALL	30311000740	Lamp	1	19	ALL	30311000099	Rectifier	1
2	ALL	30311000701	Button	1	20	230V	30311000141	Contactor	1
3	ALL	30311000700	Button	1		480V	30311000149	Contactor	1
4	ALL	30313000153	Hour meter	1	21	ALL	30311000516	Contactor	1
5	ALL	30311000717	EMG stop button	1	22	ALL	30311000503	Relay	1
6	ALL	30301230243	Screw M6x16 ISO 7380F	8	23	ALL	30311000612	Circuit barker	3
7	ALL	V32EU70.00.02	Plate	1	24	ALL	V32EU70.20.03	Cable canal	1
8	ALL	V32EU70.00.03	Sealing	1	25	ALL	V32EU70.20.02	Cable canal	1
9	230V	V32X-230-90.50.00	Plug assembly	1	26	ALL	V32EU70.20.04	Cable canal	1
	480V	V32X-480-90.50.00	Plug assembly	1	27	230V	V32X-230-90.10.00	Power cable	1
10	230V	V32X-230-90.40.00	Socket assembly	1		480V	V32X-480-90.10.00	Power cable	1
	480V	V32X-480-90.40.00	Socket assembly	1					
11	ALL	30311000405	Cable gland M25x1.5	1					
12	ALL	30311000415	Cable gland M40x1.5	1					
13	ALL	30311000401	Cable gland M16x1.5	1					
14	ALL	30311000122	Terminal fixing plate	4					
15	230V	30311000168	Terminal 16mm grey	3					
	480V	30311000200	Terminal 6mm grey	3					
16	230V	30328000036	Transformer	1					
	480V	30328000043	Transformer	1					
17	230V	30311000200	Terminal 6mm grey	3					
	480V	30311000196	Terminal 4mm grey	3					
18	230V	30311000131	Overload relay	1					
	480V	30311000205	Overload relay	1					

NOTE: Buttons pos. 2 and 3 are equipped with silicon protection cover 30311000750.

11.8.3 AUTOMATIC FILTER CLEANING

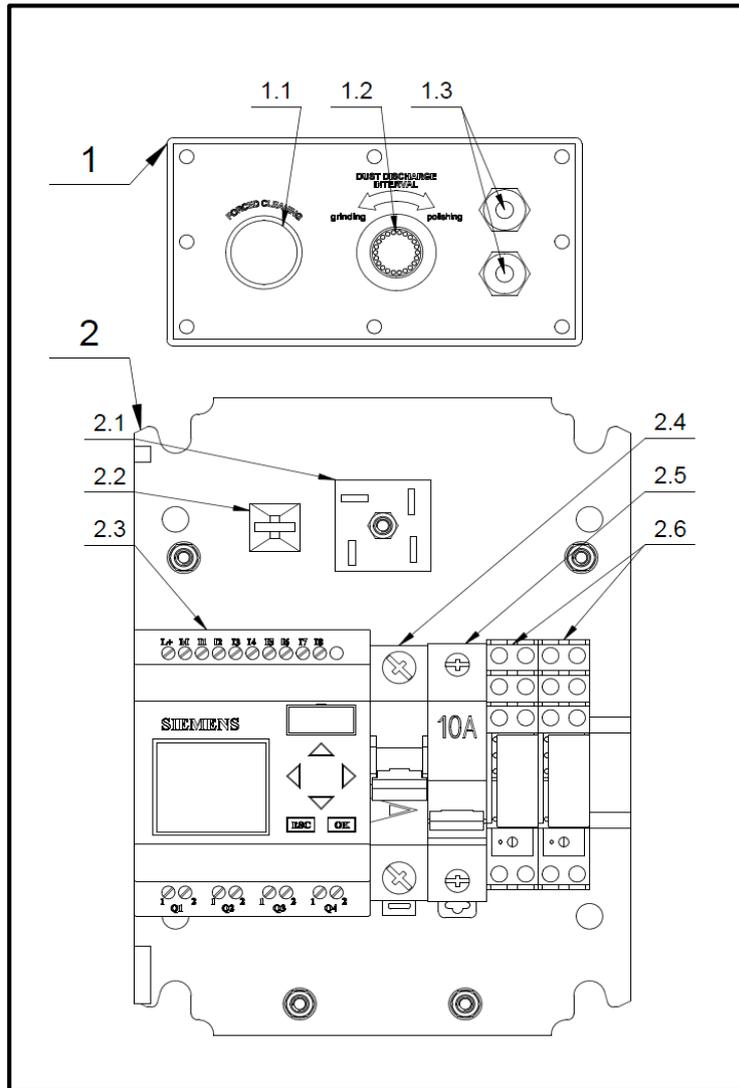


Figure 11.8.3

No.	Item No.	Description	Pcs.	No.	Item No.	Description	Pcs.
1	V32EU AFC70.20.00	Command plate	1	2	V32EU AFC70.30.00	Control block	1
1.1	30311000730	Button	1	2.1	30311000099	Rectifier	1
1.2	30311000690	Potentiometer	1	2.2	30311000771	Self-adhesive clamp	1
1.3	30311000401	Cable gland M16x1.5	2	2.3	30313000185	Logo controller	1
				2.4	30311000612	Circuit barker	1
				2.5	30311000618	Circuit barker	1
				2.6	30311000511	Relay	2

NOTE: You can find the other spare parts for the kit at point 11.1, 11.2, 11.4.2.

## 11.9 AUTOMATIC FILTER CLEANING KIT

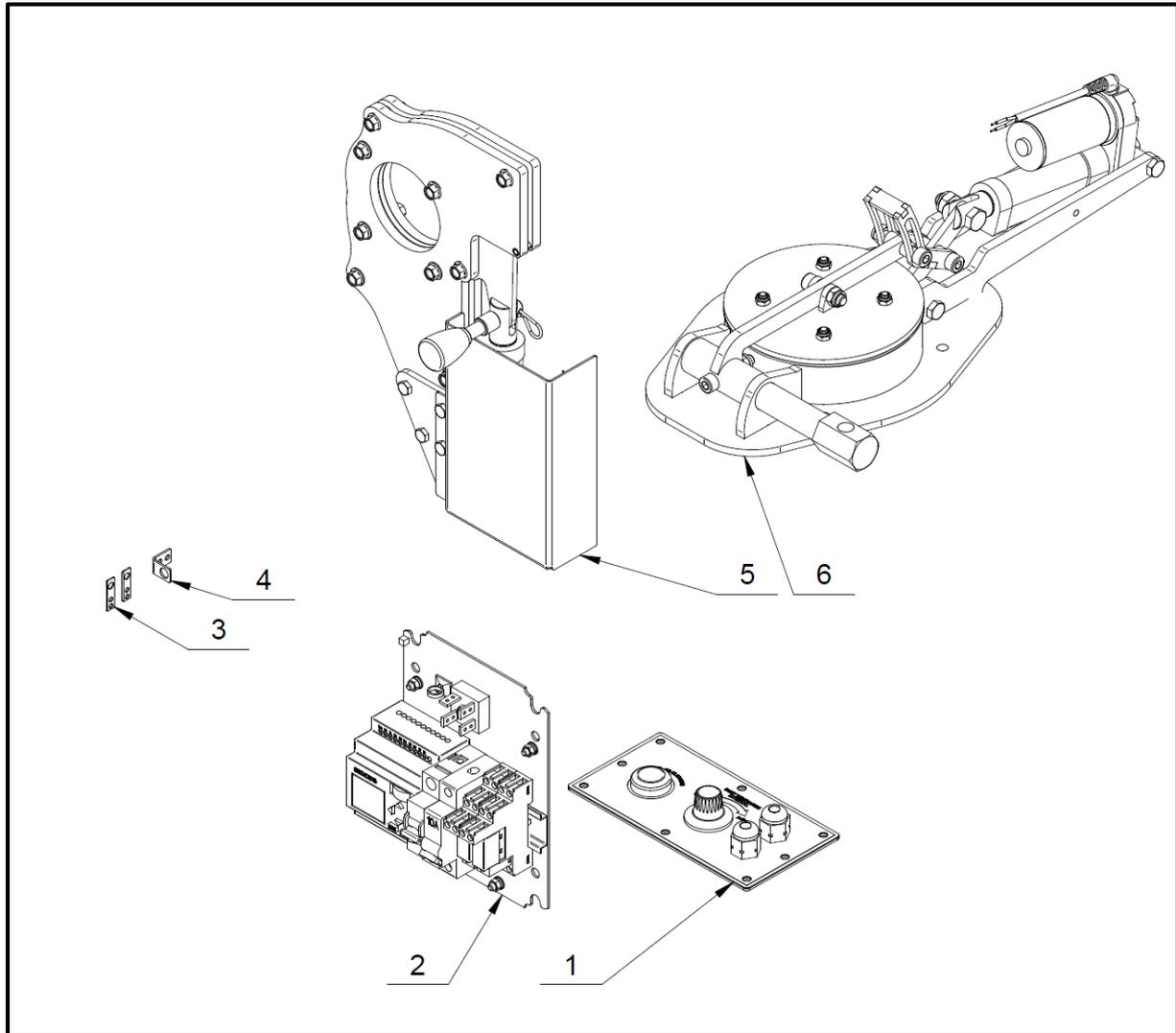


Figure 11.9

V32E AFC KIT - V32EK00.00.00			
No.	Item No.	Description	Pcs.
1	V32EU AFC70.20.00	Command plate	1
2	V32EU AFC70.30.00	Control block	2
3	V32GEK00.00.01	Cable holding plate	2
4	V32GEK00.00.02	Cable holding plate	1
5	V32GX-14.00.00	Inlet valve assembly	1
6	V32GE30.30.00	Valve	1

## 12. ACCESSORIES



Figure 12.1



Figure 12.2

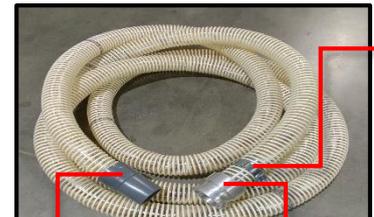


Figure 12.3

3.3

3.1

3.2

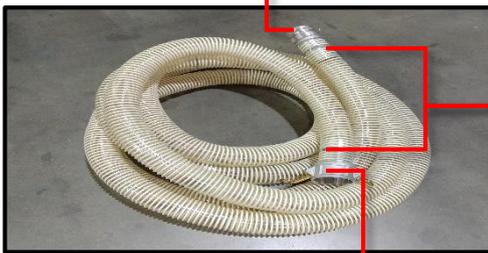


Figure 12.4

4.4

4.3

4.2



Figure 12.5



Figure 12.6



Figure 12.7

<b>ACCESSORIES</b>				
<b>No.</b>	<b>Item No.</b>	<b>Description</b>	<b>Pcs.</b>	<b>Fig.</b>
1	30310000104	Floor Brush combo 18 in L-FB-50	1	12.1
2	30316000062	Steel wand L-A-50	1	12.2
3	V32GX-00.50.00	Accessory vacuum hose with CAMOLOCK and	1	12.3
	3.1	Guff L-R-C-1	1	
	3.2	ER30-20-AL Aluminum Camlock Fitting ER30-20-AL	1	
	3.3	Clamp 50_70DIN3017	1	
	3.4	D50X6.5 Vacuum Hose	1	
4	V32GX-00.40.00	Main vacuum hose CAMLOCK inlet	1	12.4
	4.1	D75x10 Vacuum Hose	1	
	4.2	V32GX-00.40.01 Aluminum Camlock Fitting C300	1	
	4.3	30308000409 Clamp Ø70-90 DIN3017	2	
	4.4	V32GX-00.40.02 Aluminum Camlock Fitting E300	1	
5	V32GE-F-2	Main filter	1	12.5
6	V32E-FH-1-K	HEPA filter + Nut	1	12.6
7	30350000041	Longopack bag	1	12.7
8	V32EK00.00.00	Automatic filter cleaning kit	1	
<b>CAMLOCK ADAPTERS</b>				
1	A70.00.00	3''M-to-2''F	1	
2	A71.00.00	3''M-to-2.5''F	1	
3	A73.00.00	3''F-to-2.5''M	1	
4	30316000116	3''F-to-2''M	1	
5	V25X-00.60.00	Adapter 2.5'' MALE CAMLOCK with Ø51 Hole with seals to fit with the steel wand, L20 ELITE SERIES and all X SERIES machines.	1	

## 13. DISPOSAL

If your machine after time is not usable or needs to be replaced, send the machine back to Superabrasive or a local distributor, where a professional disposal complying with the environment laws and directives is guaranteed.

## 14. MANUFACTURER'S CONTACTS

If you need to contact Superabrasive Inc. with technical support questions, below is the contact information.

Address USA: 9411 Jackson Trail Road,  
Hoshton GA 30548, USA

Email: [info@superabrasive.us](mailto:info@superabrasive.us)

Tel.: 706 658 1122

Fax: 706 658 0357

Website: [www.superabrasive.com](http://www.superabrasive.com)

Address Europe: Superabrasive Ltd.  
Rabotnicheska 2A  
BG-6140 Krun  
Bulgaria

Email: [factory@superabrasive.com](mailto:factory@superabrasive.com)

Tel.: +359 431 6 44 77

Fax: +359 431 6 44 66

## 15. CE-RECERTIFICATION

All LAVINA® dust collectors are designed to operate correctly in an electromagnetic atmosphere of industrial type, and are equipped with all of the mechanical and electrical safety protections in conformity with the following European CEE rules and regulations:

LAVINA® Vacuums comply with the Safety Directive for machines 2006/42/EC, the EMC Directive 2004/108/EC and the Low Voltage Directive 2006/95/EC.

They also comply with the norms in use UNI EN 13857, CEI EN 60204-1, CEI EN 61000-3-2, CEI EN 61000-3-3, CEI EN 55014.

Test results are a part of the machine's technical information and can be provided upon request. The vacuum unit machine is delivered with the CE mark exposed and is provided with a EC declaration of conformity.