



FILTRATION

CYCLONE SEPARATOR



Instructions for use



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ABOUT THE INSTRUCTION

PURPOSE OF INSTRUCTION

The instructions are intended for the operator of the equipment and all persons who come into contact with it.
 contact during **installation, operation and maintenance.**

PLATINUM INSTRUCTIONS

These instructions are valid for all supplied types of CYGG cyclone separators

SYMBOLS USED INSTRUCTIONS

SYMBOL	IMPORTANCE
	These symbols have the meaning of " WARNING " and " CAUTION " and indicate facts that may cause serious injury to the user and/or damage to the equipment. They also draw attention to an important instruction, feature, procedure or matter that must be followed during
	and maintenance of the equipment to comply with or take note of..... The symbol draws attention to an important action that must be followed but which does not endanger health or cause damage to the product.
	The symbol highlights useful information related to the device accessories.
	The symbol is a reference to another chapter in this manual.
	Caution for cyclone installed in hazardous areas.

IMPORTANT NOTICES

Please read these instructions carefully. Follow the instructions in this manual to ensure not only ease of use, but also optimum use and longevity of the equipment. Do not operate the equipment until you are thoroughly familiar with all the instructions, prohibitions and recommendations contained in this manual.

The illustrations used in this manual do not necessarily correspond to reality; they are intended to describe the main principles of the device. However, the texts, drawings, photographs and other elements shown here are protected by copyright. Any misuse or unauthorized copying is punishable.

The instructions must be considered as part of the equipment and must not be separated from it. Therefore, keep it for future reference.

RELATED DOCUMENTATION

In addition to these instructions, further documentation is available from the manufacturers of the installed components and is included with the equipment. A full list of documentation is provided in the **MANUFACTURER DOCUMENTATION** section **AND SUBCONTRACTORS.**

CONTACT US MANUFACTURER

In practice, there are also unforeseen situations that could not be included and described in this manual. Therefore, always contact the manufacturer if you are unsure of the procedure:

G&G filtration CZ, s.r.o.
 Hrubínova 1903/9
 664 51 Šlapanice
 Czech Republic

T: +420 725 745 300
 E: vesely@ggf.cz
 W: www.ggfiltration.cz

ABOUT THE INSTRUCTION

1 | DELIVERY

PACKAGING AND DELIVERY CONTENT

Due to their size, cyclone separators are transported in disassembled state into individual parts (for larger cyclones, exceeding the dimensions of the truck set), which are connected to each other by bolted joints, or they can be transported assembled (if the dimensions allow it)

The parts are placed on a standard shipping pallet and secured with tape. Parts more susceptible to abrasion damage are wrapped with suitable packaging material.



Upon receipt of the equipment, check for damage to any part or packaging and report any damage to the carrier immediately. In addition, check that the delivery is complete and that it agrees with the order or packing slip. Immediately report any deficiencies found contractors.

The following is included:

- transport pallets
- Cyclone separator according to operator's specification
- instructions for use and manufacturers' manuals for selected components
- assembly drawings
- fasteners

HANDLING OF THE VAN

Use a forklift or lifting device with adequate lifting capacity to handle the packed equipment. The weight of the equipment supplied is indicated on the equipment's nameplate.

Lift the load with the lifting device and transport it to the designated unpacking or storage location.



The delivered equipment may only be transported in the position in which it was stored by the manufacturer. Under no circumstances may it be transported in any other position - there is a risk of serious damage to the components.

We recommend that the lifting equipment and load are handled by persons who are qualified to do so.

STORAGE BEFORE UNPACKING

If you are not going to unpack and install the equipment immediately after delivery, store it under the following conditions:

- store the equipment in its original packaging in dry areas, protected against weathering that could cause damage to the packaging and deterioration
- do not dismantle the equipment and its parts from the pallets and do not tip them on their side or lean them in an inclined position
- Do not place any other objects or materials on top of the packaged equipment

Recommended storage site characteristics:

Temperature: from -25 °C to +50 °C
 Humidity: <60%
 Air cleanliness: Dust-free environment
 Other: Dry storage areas



Unpacking and transporting the equipment to the installation site is described in the chapter INSTALLATION AND REPLACEMENT.

2 | TECHNICAL INFORMATION

PURPOSE OF THE DEVICE

A cyclone dust collector is a device designed to separate dust, dirt and other particulate matter from air or gas. Its main purpose is to protect the working environment and maintain air quality by separating and trapping impurities that could otherwise be inhaled by workers or contaminate production processes. It can also help extend the life of other machinery and equipment by reducing the amount of dust and dirt that can settle and accumulate on their components.

IMPROPER USE OF EQUIPMENT

Cyclone separators shall not be used for purposes or under conditions other than those specified above. Furthermore, it is forbidden to operate them with components other than those with which they were supplied.

Cyclone separators must not be operated in a different power range than that specified in this manual.

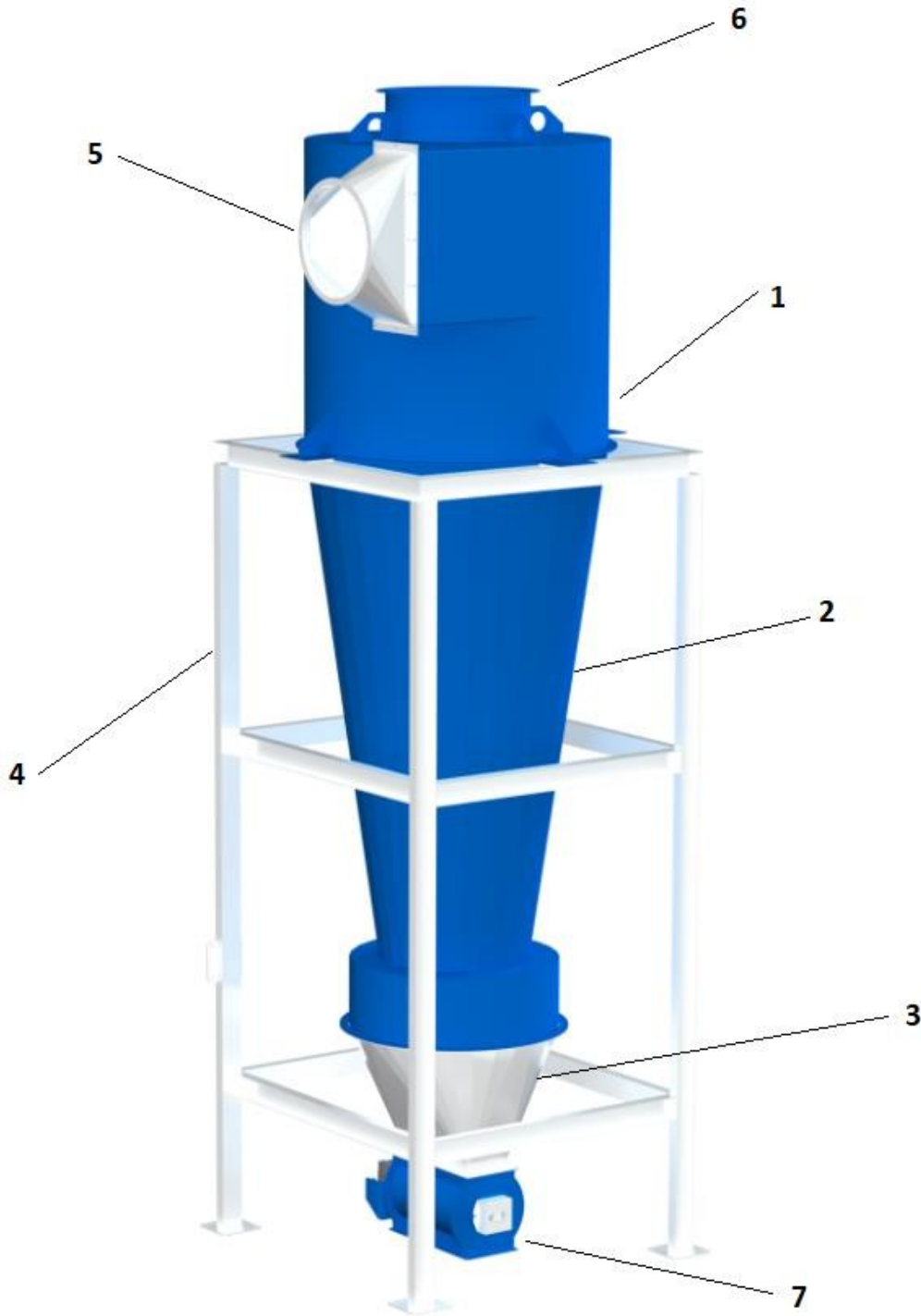
Improper use of the units includes installation and maintenance by untrained or unauthorized persons, operation with a malfunction or defect, and operation with dismantled or modified enclosures.

If it is discovered that the cyclone separator has been installed or serviced by an untrained or unauthorized person, or has been used for purposes other than those for which it is originally intended, or has been operated in violation of applicable standards, general regulations, end user's internal rules or in violation of these instructions, it will automatically be terminated any warranties on this equipment.

MAIN PARTS



The illustration below is a sample model of a cyclone. The supplied models consist of the same components, differing only in size.



- 1 Cyclone body - cylindrical part
- 2 Cyclone body - conical part
- 3 Expansion vessel
- 4 Support structure

- 5 Input flange
- 6 Output flange
- 7 Rotary feeder

DESCRIPTION AND FUNCTIONS

The cyclone separator is used to mechanically separate dust particles from of the extracted air. It is often used in wood processing and recycling plants operations.

A cyclone separator is a device used to separate dust and other solid particles from a gas or liquid stream. The principle of its function is to create an eddy motion during which dust particles are separated from the air or gas.

This technology is widely used in industry, especially in those areas where gases need to be cleaned of particulate matter, such as wood processing plants, recycling plants, steel mills. The cyclone separator is capable of removing particles larger than 10 micrometers, making it an effective tool for reducing airborne dust emissions.

The cyclone separator consists of several main parts: the inlet, the separator body and the outlet for the purified gas. The dust particles are separated from the gas by the centrifugal force generated by the swirling of the gas inside the device. The separated dust is then collected at the bottom of the separator and can be further processed or removed.



The selection of a particular model of cyclone separator, its features and equipment is a matter of commercial negotiation between the manufacturer and the operator and this manual does not describe all Variants.

Variants cyclone separators

Cyclone separators differ in their design according to the nature of the materials - the dust to be Separate. The type of cyclone supplied to you is indicated on the delivery note. Cyclone separators can be used mainly for coarser dust particles, mainly as pre-paration, e.g. for wood shavings, wet wood dust, in recycling lines, dusting of biomass boilers, in food processing plants, etc., where we assume a separation efficiency of max. 70-95%.

G&G Cyclone separator

The cyclone separator consists of a cyclone body, a supporting steel structure, an expansion vessel, a rotary feeder (optionally) and a waste hopper. The maximum temperature of the air entering the cyclone is according to the type of cyclone material. Up to 300 °C in standard S235JR steel in temperature resistant paint, or up to 600 °C in stainless steel. Exhaust fan not included (can be offered separately).

Retrieved from dust

The centrifuged air in the form of clean air is blown into the surrounding space or is led further to the filtration unit where a higher degree of filtration occurs.

TECHNICAL DATA

objednací číslo	název položky	technické parametry					
		Odlučovací výkon m ³ /h		hmotnost	průměr vstupu	Výška cyklonu	průměr cyklonu
		V= 18 m/s dp=1100 pa	v= 21 m/s dp=1300 pa	kg	[mm]	[mm]	[mm]
CYGG-080	CYKLONOVÝ ODLUČOVAČ CYGG-080	330	380	18	80	747	222
CYGG-100	CYKLONOVÝ ODLUČOVAČ CYGG-100	510	600	27	100	905	278
CYGG-125	CYKLONOVÝ ODLUČOVAČ CYGG-125	800	930	38	125	1 108	333
CYGG-150	CYKLONOVÝ ODLUČOVAČ CYGG-150	1 150	1 340	64	150	1 419	444
CYGG-180	CYKLONOVÝ ODLUČOVAČ CYGG-180	1 650	1 930	85	180	1 600	500
CYGG-200	CYKLONOVÝ ODLUČOVAČ CYGG-200	2 040	2 380	109	200	1 756	556
CYGG-225	CYKLONOVÝ ODLUČOVAČ CYGG-225	2 580	3 010	159	225	2 067	667
CYGG-250	CYKLONOVÝ ODLUČOVAČ CYGG-250	3 180	3 710	177	250	2 272	722
CYGG-280	CYKLONOVÝ ODLUČOVAČ CYGG-280	3 990	4 660	214	280	2 478	778
CYGG-300	CYKLONOVÝ ODLUČOVAČ CYGG-300	4 580	5 350	247	300	2 633	833
CYGG-315	CYKLONOVÝ ODLUČOVAČ CYGG-315	5 050	5 890	286	315	2 789	889
CYGG-330	CYKLONOVÝ ODLUČOVAČ CYGG-330	5 540	6 470	329	330	2 944	944
CYGG-355	CYKLONOVÝ ODLUČOVAČ CYGG-355	6 420	7 480	382	355	3 100	1 000
CYGG-400	CYKLONOVÝ ODLUČOVAČ CYGG-400	8 140	9 500	479	400	3 461	1 111
CYGG-450	CYKLONOVÝ ODLUČOVAČ CYGG-450	10 310	12 020	636	450	3 978	1 278
CYGG-500	CYKLONOVÝ ODLUČOVAČ CYGG-500	12 720	14 840	820	500	4 444	1 444
CYGG-560	CYKLONOVÝ ODLUČOVAČ CYGG-560	15 960	18 620	1 027	560	4 911	1 611
CYGG-600	CYKLONOVÝ ODLUČOVAČ CYGG-600	18 320	21 370	1 202	600	5 272	1 722
CYGG-630	CYKLONOVÝ ODLUČOVAČ CYGG-630	20 190	23 560	1 314	630	5 428	1 778
CYGG-650	CYKLONOVÝ ODLUČOVAČ CYGG-650	21 500	25 080	1 448	650	5 633	1 833
CYGG-710	CYKLONOVÝ ODLUČOVAČ CYGG-710	25 650	29 920	1 739	710	6 150	2 000
CYGG-800	CYKLONOVÝ ODLUČOVAČ CYGG-800	32 560	37 990	2 269	800	6 928	2 278

**EXIT
CONCENTRATION
LABELS ON
FACILITIES**

The guaranteed dust removal rate is between 70-95% depending on the type of dust and the extraction conditions.

Production label

	G&G filtration, s.r.o. Hrubínova 1903/9 664 51 Šlapanice Česká republika www.ggfiltration.com	
Výrobek:	CYKLONOVÝ ODLUČOVAČ	
Typ:	CYGG-400-S	
Rok výroby:	2020	Výrobní číslo: CYGG-2020-00010
Zakázkové číslo:	V-2020-00080	Provozní teplota: - 20°C +70°C
Odsávací výkon:	10000 - 11 250 m³/h	Materiál: 11375
Odlučivost:	70% 95%	Hmotnost: 711,92 kg
„Made in Czech & Slovak company“		

**SUBSCRIPTIONS
ABOUT THE
AGREEMENT**

Declaration of conformity is supplied in separate documentation, delivered with the cyclone with a separator.

3 | SAFETY INFORMATION

**GENERAL
INFORMATION**

It is primarily the responsibility of the operator to ensure their personal safety when operating the cyclone.

a person designated by the operator. The manufacturer is not responsible for personal injury or damage to the equipment and environmental damage caused by not using and operating it in accordance with the instructions for use and applicable safety regulations.

Cyclone separators are designed in accordance with international standards and regulations applicable to the manufacture of such equipment. The electrical components (if any) of the separator shall comply with international regulations on protection against dangerous contact voltages. All electrical elements either have the appropriate cover prescribed by the standard or are located in enclosed spaces whose cover meets the regulations of these standards.

**OBLIGATIONS OF
THE OPERATOR**

A company that implements cyclone in its technology, or the operator must ensure the following:

- must clearly define the scope of responsibilities and competencies of the personnel designated for installation and connection of the cyclone to the technology
- before putting the cyclone into operation, it must ensure that all those who come into contact with it can thoroughly familiarise themselves with the contents of the instructions for use
- must ensure the spatial arrangement of the cyclone so as not to endanger the operation and activities of personnel operating the surrounding equipment
- must take care to protect the health of the personnel assigned to the installation or maintenance cyclone and assign them appropriate personal protective equipment (PPE)

**STAFF
REQUIREMENTS**

Qualification of personnel for cyclone installation:

Mechanical education - a knowledgeable person, i.e. a person with appropriate technical education, training and/or experience to recognise and avoid the risks that may occur when handling and installing a cyclone.

Qualification of personnel for electrical connections:

Education in the electrical field according to the relevant legislation of the country of the operator, knowledge of the control system technology used.



Dress code:

During cyclone assembly, designated workers must use appropriate personal protective equipment according to general regulations, internal regulations and the nature of the work to be performed, such as flame-resistant and dielectric work suits, steel-toed work boots, gloves, helmets, safety glasses, ear protectors and respirators (depending on local conditions).

PROHIBITED ACTIVITIES

- it is forbidden to modify the unit in any way without the manufacturer's knowledge
- it is forbidden to remove or damage the labels on the unit

- it is forbidden to allow operation, maintenance and servicing by persons who are not designated or competent to operate, maintain and service this type of equipment
- it is forbidden to use the unit if it is found to be defective
- it is forbidden to throw cigarette butts and similar into the exhaust pipe

SAFETY INSTRUCTIONS FOR OPERATION AND MAINTENANCE

- In case of malfunctions of any nature, cleaning and maintenance, always switch off the filter unit first, secure against unexpected start-up and wait for the hot surfaces to cool down.
- Do not remove or modify the protective covers.
Do not start the unit unless all doors or inspection openings are closed and all flanges are connected to the technology so that limbs cannot be inserted into the interior of the unit during operation.
- Any repair or maintenance work on the unit's electrical system must only be carried out by persons with the appropriate electrical qualifications.

RESIDUAL RISKS

The cyclones and its parts are designed so that when used properly under in perfect technical condition did not endanger the health of workers and did not cause economic damage to surrounding facilities. Nevertheless, during installation and maintenance of the unit, situations may arise which are a source of danger to the user if he is not aware of them and does not observe the principles of safe work. These hazards are so-called residual risks - they are risks that remain even when all preventive and protective measures have been considered and implemented.

HAZARD: Electric shock during installation, maintenance or servicing of electrical parts of the equipment. Electric shock when persons touch parts that have become live due to a fault in the electrical equipment.

PROTECTION: Wiring, maintenance and servicing of electrical parts of the equipment may be carried out by only designated and properly trained personnel with appropriate qualifications.

HAZARD: Crushing of body parts or bumping when handling the equipment or its disassembled parts during installation. Injuries due to slips, trips and falls of persons on edges or other parts of the equipment during installation or maintenance.

SAFETY: Always pay the utmost attention to the work you are doing and follow safety regulations. Wear the prescribed personal protective equipment. Make sure that any person involved in installation or maintenance is familiar with each step of the installation.

DANGER: Burn on parts of the equipment that get hot during operation. temperature.

PROTECTION: Do not touch the device until the temperature has dropped properly. There is a risk of burns. Wear protective gloves.

HAZARD: Injury due to splashing of high pressure media.

PROTECTION: Maintenance or repairs of the filtering equipment and its parts may only be carried out by designated and properly trained personnel with appropriate qualifications and equipped with personal protective equipment.

RISK: Hearing damage from exposure to excessive noise or injury due to vibration when the unit fails.

PROTECTION: During unit operation in conjunction with surrounding facilities wear hearing protection. If the unit malfunctions in any way, turn it off immediately.
and call in maintenance or repair personnel.



HAZARD: Explosion due to non-compliance with the maximum temperature of filtered particulates in the case of explosive dusts or mixtures.

PROTECTION: The model of the filter unit is designed for the environmental and dust characteristics specified by the operator during the business negotiations. Therefore, observe the following characteristics. If the characteristics change, consult the manufacturer of the filtration unit.

4 | INSTALLATION AND COMMISSIONING

WORKING ENVIRONMENT

In order to maintain the proper operation of the cyclone, the following environment must be ensured:

- relative humidity in the workplace 20-80 % without condensation
- ambient temperature -20 °C to +40 °C
- non-explosive ambient working environment for units not designed for explosive atmospheres



The filter units bearing this symbol are equipped with equipment that allows them to operate in explosion hazardous environments according to explosion zones.

OPERATIONAL SPACE

The choice of the cyclone installation site was taken into account in advance during business negotiations according to the layout of the operating environment. For the installation of the unit, ensure that sufficient space is available not only for safe installation but for any subsequent maintenance or service.

AVAILABILITY

Due to the variety of packaging of the units due to their different configurations, it is not possible to describe all unpacking options, therefore the following procedure is indicative. When unpacking, proceed as follows:

- 1 Loosen the reinforcing straps securing the filter unit parts to the pallets and/or the vehicle, remove the protective and packaging material.



Dispose of used packaging material according to the operator's internal regulations or legislation, valid in the country of installation of the filter unit.

- 2 Visually check if any parts of the unit have been damaged during transport damaged. Report defects to the supplier or carrier as soon as possible.

LOCATION ON LIFTING EQUIPMENT

The filter units and their parts can be lifted using a forklift or lifting equipment (e.g. workshop crane). Depending on the accessibility of the location where the unit is to be installed, select the most convenient transport device.



When lifting loads, follow the relevant standards and the operator's internal regulations.

Only persons duly authorised to use lifting equipment and carry out binding work may do so. Never stand under a lifted load or place any part of your body under a lifted load. Do not move the load over any part of another person's body.

When handling the equipment, keep in mind that the lifting capacity of the lifting device must always be greater than the weight of the load.

Inspect tying and lifting devices before use and replace defective parts with new ones. Do not use damaged or incomplete lashings. Lashing chains or ropes or straps must not be twisted, knotted or kinked when lifting. Never attempt to repair defective parts in an unprofessional manner.

Always use personal protective equipment such as work boots when handling the equipment with reinforced tip, protective gloves and protective helmets

**CONNECTION
 TO THE
 ELECTRICAL
 NETWORK**

It only applies if the cyclone accessories include electrical appliances, e.g. fan, rotary feeder, or cyclone body heating. User instructions will be supplied separately for these components.

Before connecting to the mains supply, check that the mains supply has the correct parameters to ensure the rotary feeder (if supplied) has the correct power. Check that the mains voltage and frequency corresponds to the information on the electric motor's label. Ensure that the supply cable is not live.

Wiring should be done according to the instructions for the electric motor and the control unit, see MANUFACTURER AND SUBCONTRACTOR DOCUMENTATION. The wiring diagram for the electric motor is also shown in the motor terminal cover.



The wiring must comply with the applicable standards in the country of the operator and varies individually according to the system in which the filter unit is integrated.

The unit must in any case be earthed and all parts conductively connected.

The unit shall be prevented from unexpected start-up according to the applicable national standards of the country of operation and shall be equipped with a lockable shutdown device.



The wiring and connection to the mains must comply with the applicable standards in the country operation of the filtration unit.

For filter units with the OSEX parameter, in the event of an explosion there must be an immediate automatic stop.



There must be an emergency stop button within reach of the operator.

**BEFORE
 INTRODUCTION
 FOR TRADE**

Check:

- a) Tightness of cyclone connection flanges and exhaust pipe
- b) whether the unit is connected to the extraction technology so that fingers or objects cannot be inserted into the body space of the unit during operation



- h) For units intended for operation in hazardous areas, check, that the equipment is earthed and all parts are conductively connected.

CONSUMPTION

The operation of the unit is dependent on the control system of your technology that will be extracting, and start-up therefore depends on how it is integrated into the technology.

Therefore, this manual does not describe how to start the filter unit.

5 | MAINTENANCE



Always turn off the filter unit first and allow the hot surfaces to cool before performing any maintenance or inspection. We also recommend securing the unit against unexpected start-up.

If the filter unit discharges hazardous substances, always use appropriate personal protective equipment according to the nature of the hazardous substance.

OTHER MAINTENANCE

Emptying dust containers

Regularly check the fill level of the dust container used on your model of cyclone and, if full, empty the container into the place designated by the operator. We recommend that you set the frequency of checking and emptying depending on the conditions in which the filtration unit is operated.

MAINTENANCE OF ELECTRICAL PARTS

Periodically or according to the operator's internal regulations, **check that all connectors are inserted and that the screws of electrical connections and terminals are tightened.** Perform these checks with the filter unit switched off.

Regularly **check the insulation condition of all cables and the grounding condition.** In case of any damage, contact the electrical maintenance personnel immediately.

Check the electric motor of the fan according to the instructions of their manufacturers, given in separate manuals. The manuals are included in the delivery of the filter unit.



Maintenance of the electrical parts of the equipment may only be carried out by persons who are properly trained and qualified.

REMOVAL PORUCH

Reduced suction effect

In case of reduced suction effect at the source, inspect and check:

- system settings, especially the fan
- pipes; dirt in the form of rags, crumpled newspapers, etc. could have got stuck here.

FAILURE	POSSIBLE CAUSE	SOLUTION
Fan failure on start-up	Wrong fan wiring. Improper wiring.	Check the warm electric motor. It is necessary to check the electrical connection of the fan.
The cyclone vibrates considerably	Unbalanced rotating components	Check balance of rotating components (especially rotor fan).
	Adhesive bonding of the seams at fan rotor	Check rotor fan and if necessary, remove any deposits.

There is a visible leak dust particles from the filter outlet	Dirt leaks through the seal	Check the tightening of the fixing plates
Residual drift value TZL* is too high	Low extraction power and poor air rotation inside the cyclone and thus low separation efficiency	Check the fan settings

* Particulate Pollutants

REPLACEMENT PARTS

If you need to replace any part or assembly, please contact **G&G filtration, s.r.o.**, or the company that implemented the filtration unit, to after agreement, arranged delivery and assembly of the required component.

DEMONTAGE AND LIKVIDATION

When disassembling the device, follow the steps opposite to those described in the **INSTALLATION AND REPLACEMENT** chapter. If you are unsure of the procedure, contact the unit manufacturer or call a specialist company.

Due to the nature of the working conditions, which vary from application to application, it is not possible to determine the lifetime of the cyclone in general. However, before disposing of the cyclone and its parts, render them unusable.



When disposing of the unit parts, the instructions of the manufacturers of the individual components as well as the relevant national regulations on waste disposal must be observed. Individual

We recommend that you have the components of the device disposed of at a specialised disposal facility.

6 | DOCUMENTATION OF THE MANUFACTURER AND SUBCONTRACTORS

ADDED DOCUMENTATION

The following manufacturer's documentation is supplied with this filtration device and subcontractors:

- delivery note (handed over on delivery)
- declaration of conformity
- manufacturers' manuals for selected components
- electrical documentation
- production documentation (drawings, etc.)

7 | WARRANTY CONDITIONS

**WARRANTY
CONDITIONS**

The manufacturer guarantees its product for 24 months from the date of delivery or handover and acceptance.

THE WARRANTY COVERS:

- hidden defects in the material
- demonstrable design defects

Defects covered by the warranty must be reported in writing to the manufacturer's service department.

Special cases can only be decided after discussion, inspection and assessment by the manufacturer.

THE WARRANTY DOES NOT COVER DEFECTS CAUSED BY:

- mechanical damage

- negligent handling
- by unprofessional intervention
- by connecting or reconnecting to the wrong type or voltage of electricity
- normal mechanical wear and tear, etc.



Other warranty conditions can be agreed in the contract.

8 | LIST OF MAINTENANCE TASKS

<i>B</i>	Cyclone						
<i>č.</i>	<i>Action</i>	<i>Nature</i>	<i>Priority</i>	<i>Daily</i>	<i>Quarterly</i>	<i>Annual ly</i>	<i>As required</i>
<i>B1</i>	Checking and cleaning the dust container	P	1	X			
<i>B2</i>	Inspection of the inner part of the cyclone and removal of sediments	Ú	1		X		
<i>B3</i>	Checking the cyclone, hopper, flanges for leaks	Ú	1			X	
<i>B4</i>	Inspection and repair of corroded parts of the cyclone surface by coating	Ú	2			X	

M - measurement

Ú - action of the

technician P -

OPERATION

1 - necessary

2 - suitable

3 - recommended





FILTRATION

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