

USER MANUAL AND MAINTENANCE



**SERIES DF075 | DF22 | DF40 | DF075 DEX 1/3D - 3/3G
DF22 DEX 1/3D - 3/3G | DF40 DEX 1/3D - 3/3G**

TRANSLATION OF ORIGINAL INSTRUCTIONS Rev. 01 dated January 1, 2026

Depureco Industrial Vacuums Srl

Company subject to management and coordination COFISE spa

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C.F. and P.I. 02258610357 - **Capital stock:** € 25,000 i.v.

Turin Business Register - **R.E.A.** TO-1149668

Registration **WEEE** No. IT18090000010711

INDEX

1. INFORMATION SECTION	9
1.1. Preface	9
1.2. Identification of major parts	11
1.3. Optional parts	12
1.4. Manufacturer identification data	12
1.5. Name plate	12
1.6. ATEX Marking	13
1.7. Intended uses	14
1.8. Allowable environmental conditions	15
1.9. Noise level	15
1.10. Technical data	16
1.11. Warranty	19
2. SAFETY SECTION	21
2.1. Safety information	21
2.2. Safety prescriptions	21
2.3. Safety plates and symbols	24
2.4. Residual risks	26
2.5. Directives applied	26
2.6. ATEX Safety Instructions	27
3. HANDLING, UNPACKING AND INSTALLATION SECTION	31
3.1. Handling	31
3.2. Unpacking	32
3.3. Installation	33
4. OPERATION SECTION	35
4.1. Command description	35
4.2. Duty cycle	36
4.3. Filter cleaning cycle	39
4.4. Emptying the container	41
4.5. Inserting and locking the container	43
4.6. Storage - decommissioning	43

5. MAINTENANCE SECTION	45
5.1. Informational Notes	45
5.2. General safety standards	45
5.3. Replacing the primary filter	47
5.4. If something doesn't work	63
5.5. Scrapping	63

DECLARATION OF CONFORMITY FOR NON ATEX VERSIONS

DF075 | DF22 | DF40



DECLARATION OF CONFORMITY

The construction company:

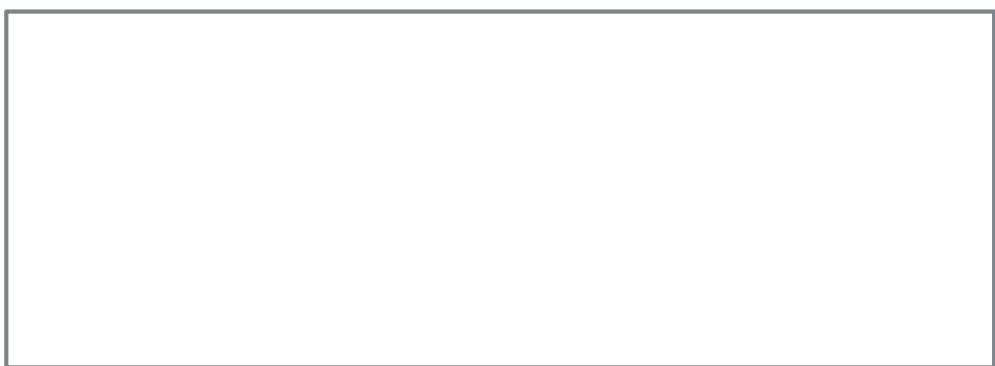
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says

Under your responsibility that the vacuum cleaner model described in this manual



complies with the essential safety requirements of the Machinery Directive 2006/42/EC, the Electromagnetic Compatibility Directive 2014/30/EU and the ROHS Directive 2011/65/EU - ROHS - on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Compliance has been verified according to the requirements of the standards or regulatory documents:

EN 60335-1

EN IEC 61000-3-2:2019

EN IEC 63000:2018

IEC 60335-2-69

EN 55014-2:2015

The standards used as a reference for the design, construction and testing of the vacuum cleaner are listed in the technical file submitted to the technical office DEPURECO S.r.l.

Production control was carried out by Notified Body No . 0474 RINA Services S.p.a.

This declaration loses its validity in the event of modifications to the vacuum cleaner carried out without the manufacturer's authorisation.

First published: June 15, 2019
 Revision 01: October 16, 2023
 Revision 02: April 26, 2024
 Revision 03: January 1, 2026



The Legal Representative
 Marco Devincenzo

Depureco Industrial Vacuums Srl
 Società soggetta a direzione e coordinamento COFISE spa

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 Capitale Sociale: € 25.000 i.v.

DECLARATION OF CONFORMITY FOR ATEX VERSIONS

DF075 SP ATEX | DF22 SP ATEX | DF40 SP ATEX



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Compliance has been verified according to the requirements of the standards or regulatory documents:

UNI EN 1127-1:2019
EN 60079-0:2018

UNI EN ISO 80079-36:2016
UNI EN 17348:2022

UNI EN ISO 80079-37:2016
EN IEC 62784:2018

MARKING: II 3 G/D Ex h IIIB T140°C Gc/Dc

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Turin R.E.A. **Business Register** TO-1149668
Share capital: €25,000 IV.

DECLARATION OF CONFORMITY FOR ATEX VERSIONS

DF075 DEX 1/3D | DF22 DEX 1/3D | DF40 DEX 1/3D



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UNI EN 17348:2022

UNI EN ISO 80079-37:2016

CE **II 1/3 D Ex h IIIC T140°C Da/Dc**

TÜV Nord has issued the EU type-certificate: **TÜV CY 25 ATEX 0207499 X**

Production control was carried out by Notified Body No. **RINA 0474**

The standards used as a reference for the design, construction and testing of the vacuum cleaner are listed in the technical file submitted to the technical office DEPURECO S.r.l.

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DECLARATION OF CONFORMITY FOR ATEX VERSIONS

DF075 DEX 3/3G | DF22 DEX 3/3G | DF40 DEX 3/3G



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UNI EN 17348:2022

UNI EN ISO 80079-37:2016

CE
MARKING:



II 3/3 G Ex h IIB T3 Gc/Gc

TÜV Nord has issued the EU type-certificate: **TÜV CY 25 ATEX 0207496 X**

Production control was carried out by Notified Body No. **RINA 0474**

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1. INFORMATION SECTION

IMPORTANT - The term and logo DEPURECO in this document refer to and are the property of **DEPURECO INDUSTRIAL VACUUMS LLC**

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1.1. PREFACE

Dear Customer

Thank you for choosing DEPURECO and congratulations on selecting a DEPURECO vacuum cleaner from the series **DF075 | DF22 | DF40 | DF075 DEX 1/3D - 3/3G | DF22 DEX 1/3D - 3/3G | DF40 DEX 1/3D - 3/3G**.

We have prepared this manual to enable you to fully appreciate the quality of this machine.

We recommend that you read it in its entirety before using the product for the first time.

It contains important information, advice, and warnings regarding the use and maintenance of the vacuum cleaner, which will help you to fully exploit the technical capabilities of your machine.

It is recommended to read carefully the messages, warnings and directions, preceded by the symbols:

 For people's safety

 For the integrity of the vacuum cleaner

 For the protection of the environment.

This manual describes the following models:

- **DF075**
- **DF22**
- **DF40**
- **DF075 DEX 1/3D **
- **DF075 SP ATEX **
- **DF075 DEX 3/3G **
- **DF22 DEX 1/3D **
- **DF22 SP ATEX **
- **DF22 DEX 3/3G **
- **DF40 DEX 1/3D **
- **DF40 SP ATEX **
- **DF40 DEX 3/3G **

The vacuum cleaner can be equipped with the following filters:

- **FILTER M**
- **TEFLON-COATED FILTER**
- **M CARTRIDGE FILTER COUNTERCURRENT AIR SYSTEM**

Machines are classified according to their degree of dust filtration efficiency:

- **L** (light risk): in vacuum cleaners with a class L filter, the maximum degree of dust penetration is less than 1 percent (Degree of penetration < 1 %);
- **M** (medium risk): in vacuum cleaners with M filter, the maximum degree of dust particle penetration is less than 0.1 percent (Degree of penetration < 0.1 %);
- **H** (high hazard): in vacuum cleaners with filter H, the maximum degree of dust particle penetration is less than 0.005% (Degree of penetration < 0.005 %); This vacuum cleaner is designed to perform vacuuming, cleaning and collection operations of solid materials (dust and processing residues).

This specific model has undergone rigorous testing to ensure maximum reliability; its proper functioning and durability will depend on proper maintenance and careful use.

This manual is an integral part of the vacuum cleaner and must accompany it until it is scrapped. If it is lost or damaged, a replacement copy must be requested from DEPURECO INDUSTRIAL VACUUMS S.r.l. (hereinafter referred to simply as DEPURECO).

The technical information contained in this manual is the property of DEPURECO and should be considered confidential in nature.

Reproduction, even in part, of the graphic design, text and illustrations is prohibited by law.

Some details depicted in the illustrations in this manual may differ from those in your vacuum cleaner, as some components may have been removed in order to ensure maximum clarity of the illustrations.

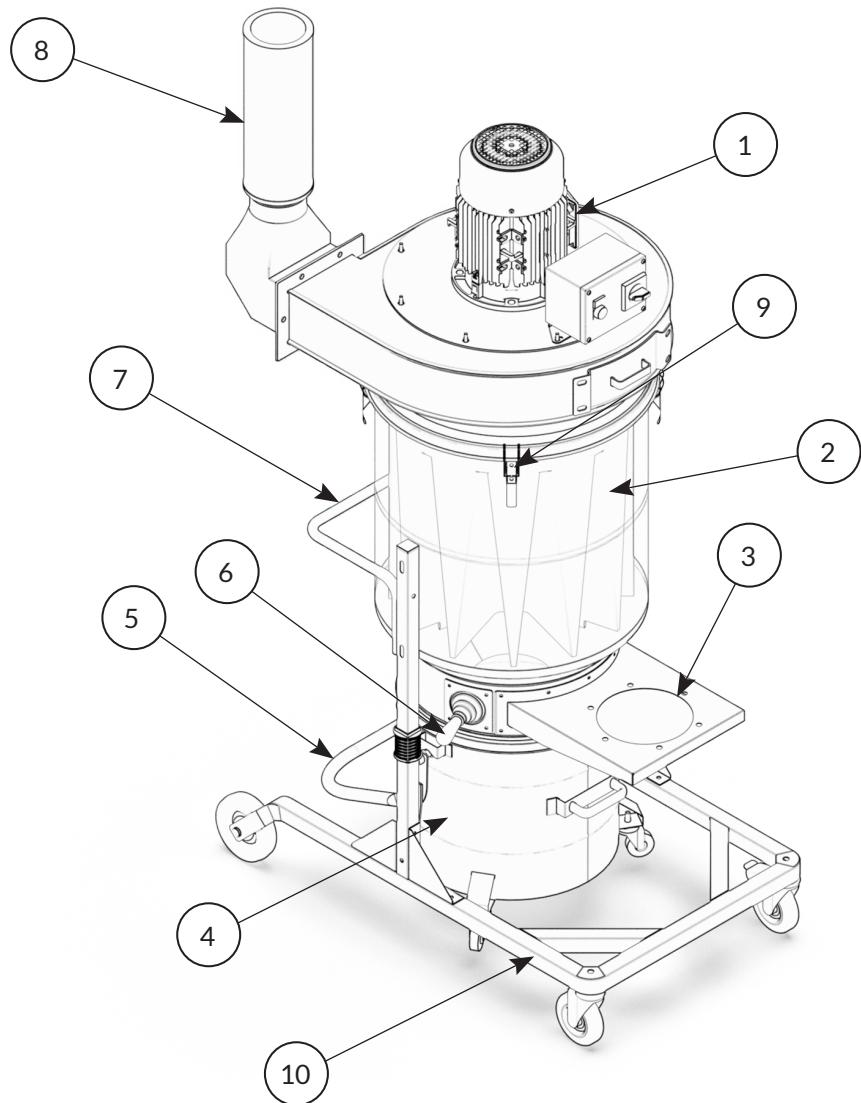
The topics covered in this manual, are those expressly required by the Machinery Directive 2006/42/EC and the technical data given are derived from the technical file stored at DEPURECO.

In relation to Regulation 1907/2006/EC (REACH), DEPURECO declares that its products do not contain any of the substances, so-called substances of very high concern - SVHC i.e. Substances of Very High Concern - listed in the Candidate List

This manual can be accessed via the QR code on the extractor fan or via the website www.depureco.com. Alternatively, contact the manufacturer Depureco. The manual must be made available to all personnel responsible for operating and maintaining the vacuum cleaner
For any dispute, the Court of Turin (Italy) shall have jurisdiction.

The QR code with the manual must accompany the vacuum cleaner in case of resale!

1.2. IDENTIFICATION OF MAJOR PARTS



1. Head with fan
2. Filter chamber
3. Connection flange
4. Dust/debris collection container
5. Lever for releasing and attaching the container
6. Lever for manual filter shaking (on models where provided)
7. Handle for moving the vacuum cleaner
8. Silencer (on models where applicable)
9. Closing hooks
10. Base

1.3. OPTIONAL PARTS

Depending on the vacuum cleaner's application, a wide range of other optional accessories is available from DEPURECO.

1.4. MANUFACTURER IDENTIFICATION DATA

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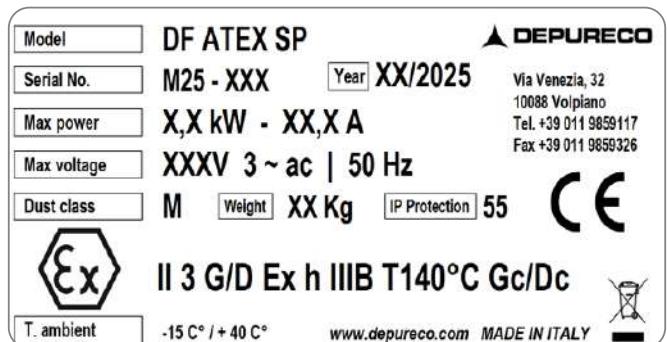
e-mail: depureco@depureco.com - website: www.depureco.com

1.5. NAME PLATE

DF075 | DF22 | DF40



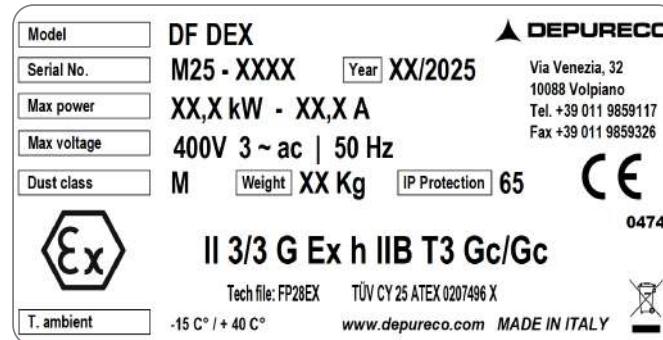
DF075 SP ATEX | DF22 SP ATEX | DF40 SP ATEX



DF075 DEX 1/3D | DF22 DEX 1/3D | DF40 DEX 1/3D



DF075 DEX 3/3G | DF22 DEX 3/3G | DF40 DEX 3/3G



1.6. ATEX MARKING

DF075 SP ATEX | DF22 SP ATEX | DF40 SP ATEX

CE II 3 G/D Ex h IIIB T140°C Gc/Dc

DF075 DEX 1/3D | DF22 DEX 1/3D | DF40 DEX 1/3D

CE II 1/3 D Ex h IIIC T140°C Da/Dc

DF075 DEX 3/3G | DF22 DEX 3/3G | DF40 DEX 3/3G

CE II 3/3 G Ex h IIB T3 Gc/Gc

1.7. INTENDED USES

DF075 | DF22 | DF40

These vacuum cleaners are manufactured in accordance with Directive 2006/42/EC, are designed for use by a single operator, and are intended for:

- to industrial use, such as in manufacturing plants or warehouses;
- To dry/wet cleaning of floors or walls;
- To the suction of wet or damp substances;
- To the extraction of dry, non-combustible dust.

⚠ WARNING

Where there is the presence of combustible dust and/or flammable gases in the workplace, it is the responsibility of the Employer to make the classification of the area and choose a Category machine (as defined in Directive 2014/34/EU).

Any other use is considered **NON-COMPLIANT** with the intended use.

DF075 SP ATEX | DF22 SP ATEX | DF40 SP ATEX

These vacuum cleaners are built according to Directive 2014/34/EU, are designed to be used by a single operator, and are intended:

- to industrial use, such as in manufacturing plants or warehouses;
- To indoor and indoor use;
- To the extraction of combustible dust and/or dry particles in atmospheres classified as **Zone 22**;
- aspirated particles must have the following limitations:

Minimum ignition energy (MIE) of the powder > 3 mJ.

⚠ WARNING

It is the responsibility of the Employer to make the zone classification and choose a Category machine (as defined in Directive 2014/34/EU)

Any other use is considered **NON-COMPLIANT** with the intended use.

DF075 DEX 1/3D | DF22 DEX 1/3D | DF40 DEX 1/3D

These vacuum cleaners are built according to Directive 2014/34/EU, are designed to be used by a single operator, and are intended:

- to industrial use, such as in manufacturing plants or warehouses;
- To indoor and indoor use;
- To the extraction of combustible dust and/or dry particles in atmospheres classified as **Zone 22**;
- aspirated particles must have the following limitations:

Minimum ignition energy (MIE) of the powder > 3 mJ.

⚠ WARNING

It is the responsibility of the Employer to make the zone classification and choose a Category machine (as defined in Directive 2014/34/EU)

Any other use is considered **NON-COMPLIANT** with the intended use.

DF075 DEX 3/3G | DF22 DEX 3/3G | DF40 DEX 3/3G

These vacuum cleaners are built according to Directive 2014/34/EU, are designed to be used by a single operator, and are intended:

- to industrial use, such as in manufacturing plants or warehouses;
- To indoor and indoor use;
- To the extraction of combustible dust and/or dry particles in atmospheres classified as **Zone 2**;
- aspirated particles must have the following limitations:
Minimum ignition energy (MIE) of the powder > 3 mJ.

⚠ WARNING

It is the responsibility of the Employer to make the zone classification and choose a Category machine (as defined in Directive 2014/34/EU)

Any other use is considered **NON-COMPLIANT** with the intended use.

1.8. ALLOWABLE ENVIRONMENTAL CONDITIONS

To ensure correct operation of the extractor fan, it must be positioned away from atmospheric agents (rain, hail, snow, fog, dust, etc.), with an ambient temperature between 5°C and 45°C and humidity not exceeding 70%.

The work environment must be clean and adequately lit.

1.9. NOISE LEVEL

The phonometric tests carried out on this specific extractor fan model show a sound pressure level of

Machine	Noise level
DF075	70 dB(A)
DF22	73 dB(A)
DF40	73 dB(A)
DF075 DEX 1/3D	65 dB(A)
DF075 SP ATEX	65 dB(A)
DF075 DEX 3/3G	65 dB(A)
DF22 DEX 1/3D	73 dB(A)
DF22 SP ATEX	73 dB(A)
DF22 DEX 3/3G	73 dB(A)
DF40 DEX 1/3D	77 dB(A)
DF40 SP ATEX	77 dB(A)
DF40 DEX 3/3G	77 dB(A)

⚠ ATTENTION

For sound pressure levels above 85 dB(A), workers must be protected by appropriate personal protective equipment (PPE), such as approved individual hearing protectors.

⚠ ATTENTION

Under these conditions, workers must be provided with training and information on the risks arising from exposure to noise.

1.10. TECHNICAL DATA

	Unit of measurement	DF075	DF22	DF40	DF075 DEX 1/3D	DF075 SP ATEX	DF075 DEX 3/3G
Weight	[kg]	110	120	145	110	125	110
Dimensions	[mm]	660 x 800	660 x 800	630 x 1100	660 x 800	660 x 800	660 x 800
Height	[mm]	1630	1630	2150	1630	1910	1630
Voltage / Frequency	[V] - [Hz]	400 - 50/60	400 - 50/60	400 - 50/60	400 - 50/60	400 - 50/60	400 - 50/60
Power	[Watt] - [HP]	750 - 1	2200 - 3	4000 - 5,5	750 - 1	750 - 1	750 - 1
Suction mouth diameter	[Ø mm]	70 100 120	100 120 150	150 180 200	70 100 120	70 100 120	70 100 120
Motors type		Fan	Fan	Fan	ATEX 3D fan	ATEX 3D fan	ATEX 3G fan
Max vacuum	[mm H ₂ O]	185 200 180	350 350 350	370 340 270	185 200 180	185 200 180	185 200 180
Available static depression	[mm H ₂ O]	180 192 170	340 320 280	300 270 200	180 192 170	180 192 170	180 192 170
Max air flow rate	[m ³ /h]	300 600 800	800 1000 1400	1500 2100 2700	300 600 800	300 600 800	300 600 800
Primary filter		Stellar	Stellar	Stellar	Stellar	3X Cartridges	Stellar
Primary filter surface	[cm ²]	24000	24000	45000	24000	-	24000
Media		Polyester	Polyester	Polyester	ANTISTATIC Polyester	ANTISTATIC Polyester	ANTISTATIC Polyester
Absolute filter		HEPA H13 *	HEPA H13 *	HEPA H13 *	HEPA H13 *	HEPA H13 *	HEPA H13 *
Absolute filter surface	[cm ²]	120000	120000	160,000	120000	120000	120000
SP cartridge surface area	[cm ²]	90,000 *	90,000 *	120,000 *	-	90000	-
Noisiness	[dB(A)]	70	73	72	65	65	65
Container capacity	[L]	65 / 100 *	65 / 100 *	65	65 / 100 *	65 / 100 *	65 / 100 *

* = filter, cartridge, and/or optional component

	Unit of measurement	DF22 DEX 1/3D	DF22 SP ATEX	DF22 DEX 3/3G	DF40 DEX 1/3D	DF40 SP ATEX	DF40 DEX 3/3G
Weight	[kg]	120	135	120	145	160	145
Dimensions	[mm]	660 x 800	660 x 800	660 x 800	630 x 1100	630 x 1100	630 x 1100
Height	[mm]	1630	1910	1630	2150	2430	2150
Voltage / Frequency	[V] - [Hz]	400 - 50/60	400 - 50/60	400 - 50/60	400 - 50/60	400 - 50/60	400 - 50/60
Power	[Watt] - [HP]	2200 - 3	2200 - 3	2200 - 3	4000 - 5,5	4000 - 5,5	4000 - 5,5
Suction mouth diameter	[Ø mm]	100 120 150	100 120 150	100 120 150	150 180 200	150 180 200	150 180 200
Motors type		ATEX 3D fan	ATEX 3D fan	ATEX 3G fan	ATEX 3D fan	ATEX 3D fan	ATEX 3G fan
Max vacuum	[mm H ₂ O]	350 350 350	350 350 350	350 350 350	370 340 270	370 340 270	370 340 270
Available static depression	[mm H ₂ O]	340 320 280	340 320 280	340 320 280	300 270 200	300 270 200	300 270 200
Max air flow rate	[m ³ /h]	800 1000 1400	800 1000 1400	800 1000 1400	1500 2100 2700	1500 2100 2700	1500 2100 2700
Primary filter		Stellar	3X Cartridges	Stellar	Stellar	4X Cartridges	Stellar
Primary filter surface	[cm ²]	24000	-	24000	45000	-	45000
Media		ANTISTATIC Polyester					
Absolute filter		HEPA H13 *					
Absolute filter surface	[cm ²]	120000	120000	120000	160,000	160,000	160,000
SP cartridge surface area	[cm ²]	90,000 *	90000	90,000 *	120,000 *	120000	120,000 *
Noisiness	[dB(A)]	73	73	73	77	77	77
Container capacity	[L]	65 / 100 *	65 / 100 *	65 / 100 *	65	65	65

* = filter, cartridge, and/or optional component

The vacuum cleaner can be equipped with the following filters, distinguished between the supplied and optional filters:

	STELLAR M	STELLAR M ANTISTATIC	STELLAR M TEFLOATED	STELLAR NOMEX	STELLAR M PTFE	STELLARE M ANTISTATIC PTFE	CARTRIDGE CONICAL M ANTISTATIC	CARTRIDGE CONICAL M PTFE	CARTRIDGE HEPA H13	CARTRIDGE HEPA H14
DF075	●	○	-	○	○	○	-	-	○	-
DF22	●	○	-	○	○	○	-	-	○	-
DF40	●	○	-	○	○	○	-	-	○	-
DF075 DEX 1/3D	-	●	-	-	-	○	-	-	○	-
DF075 SP ATEX	-	-	-	-	-	-	● (SP)	-	○	-
DF075 DEX 3/3G	-	●	-	-	-	○	-	-	○	-
DF22 DEX 1/3D	-	●	-	-	-	○	-	-	○	-
DF22 SP ATEX	-	-	-	-	-	-	● (SP)	-	○	-
DF22 DEX 3/3G	-	●	-	-	-	○	-	-	○	-
DF40 DEX 1/3D	-	●	-	-	-	○	-	-	○	-
DF40 SP ATEX	-	-	-	-	-	-	● (SP)	-	○	-
DF40 DEX 3/3G	-	●	-	-	-	○	-	-	○	-

● = filter supplied with the vacuum cleaner

○ = optional filter

1.11. WARRANTY

DEPURECO guarantees this vacuum cleaner model for a period of 12 months from the date of purchase, indicated on the tax document at the time of delivery of the product. The warranty shall be void if the vacuum cleaner has been repaired by unauthorized third parties or if equipment, accessories, or components not supplied or authorized by **DEPURECO** or for which the serial number has been found to have been removed (during the warranty period). **DEPURECO** undertakes to repair or replace free of charge any parts or components that prove to be defective in manufacture within the warranty period.

Repairs are carried out exclusively at our headquarters or at the service center indicated by us and must be delivered carriage paid (transport costs to be borne by the user, unless otherwise agreed).

The warranty does not cover the cleaning of working organs.

The tax document of purchase must be shown to the authorized technical personnel performing the repair or must accompany the vacuum cleaner during shipment. Defects not clearly attributable to the material or manufacturing will be examined exclusively at our headquarters or at the Technical Assistance Center indicated by us. If the complaint proves to be unjustified, all repair and/or replacement costs will be charged to the purchaser.

I am excluded from the warranty: Accidental damage caused by transport, negligence, or improper handling, misuse, failure to follow the instructions in this manual, or phenomena not related to the normal use/operation of the vacuum cleaner.

DEPURECO declines all responsibility for any damage to persons or property caused by improper or incorrect use of the vacuum cleaner.

For any dispute, the Court of Turin (Italy) shall have jurisdiction.





2. SAFETY SECTION

2.1. SAFETY INFORMATION

Pursuant to Legislative Decree 81/08 and subsequent additions and amendments, the Head of the Safety has the obligation to educate, inform, and train workers on the risks associated with using the vacuum cleaner, so that they are able to protect their own safety and that of others.

Failure to observe basic safety rules or precautions could result in accidents during use, maintenance, and repair of the vacuum cleaner. Accidents can often be avoided by recognizing potentially dangerous situations before they occur. Adequate training is a fundamental prerequisite for this.

DEPURECO cannot be held liable in any way for accidents or damage resulting from the use of the vacuum cleaner by personnel who have not been adequately trained or who have used it improperly, or from failure to comply, even partially, with the accident prevention regulations and operating procedures contained in this manual.

Safety precautions and warnings are provided in this manual and on the product itself. If these warning messages are ignored, the operator may be involved in accidents with serious consequences for themselves and others.

DEPURECO carefully designs and manufactures the equipment and its accessories, identifying and compensating for all possible risks associated with its use. In the event that tools, procedures, working methods or techniques are used, which are not explicitly provided for by DEPURECO, it will be necessary to ascertain in advance, that there are no dangers to oneself and others, with DEPURECO's responsibility remaining excluded in any case.

⚠ ATTENTION

Use only Original Depureco spare parts. We accept no responsibility for the use of non-original spare parts.

2.2. SAFETY PRESCRIPTIONS

⚠ WARNING

The following instructions play an important role in completely protecting you from all the dangers that may be encountered when operating the vacuum cleaner.

However, they will not be able to be separated from the competence and common sense of those who work, as an overall framework for careful accident prevention.

Structural damage, modifications, alterations, or improper repairs may alter the protective capabilities of the vacuum cleaner, thereby invalidating this certification and excluding any liability on the part of DEPURECO

Additional safety requirements specific to different operations are listed in each section.

Before use, operators must receive the necessary training in the use of the machine and information on the substances for which it is to be used, including safe methods for removing and disposing of the collected material.



⚠️ WARNING

Commissioning - connection to the power grid:

- Before starting operation, ensure that the extractor fan shows no signs of damage.
- Before connecting the power supply, ensure that the air pipes are correctly positioned (for extractors equipped with a counter-current air cleaning system). Perform this operation in a safe area, free from explosive atmospheres.
- Before connecting the vacuum cleaner to the mains, make sure that the voltage indicated on the rating plate corresponds to the mains voltage.
- Plug the power cord into a properly installed grounded outlet. Make sure the vacuum cleaner is turned off.
- The plugs and connectors of the network connection cables must be protected from splashing water.
- Check for proper connection to the power grid.
- Ensure that the grounding clamp is properly connected to a point where continuity with the grounding system is guaranteed.
- Only use vacuum cleaners with power cords in perfect condition to avoid the risk of electric shock.
- Regularly check the power cord for damage, signs of wear, cracks, or aging.

⚠️ WARNING

During operation, avoid:

- Step on, crush, pull or damage the power connection cable.
- Disconnect the cable from the mains only by pulling the plug (do not pull the cable itself).
- When replacing the power supply cable, replace it with one of the same type as the original one installed.
- The power cord must be replaced by the manufacturer's Service Department or equivalent qualified personnel.

⚠️ WARNING

It is absolutely forbidden:

- This aspirator should only be used by adults who have received appropriate training.
- Make the electrical connection to a network without an efficient grounding.
- Outdoor use in the presence of atmospheric precipitation.
- Use and storage of the vacuum cleaner outdoors in humid conditions.
- The use of the vacuum cleaner in the absence of the appropriate lock placed on the rotating wheel during vacuuming operations.
- Use of the vacuum cleaner on uneven and non-horizontal surfaces.
- Use in corrosive environments.
- Roll up or fold the hose during suction.
- For ATEX versions and models, the use of flexible hoses that are not antistatic throughout their entire mass (only surface antistatic properties are not permitted).
- The use of original DEPURECO accessories is recommended. Check with an ohmmeter for electrical continuity:
 - between the connector and the end of the suction accessories: the resistance measured must be less than $100M\Omega$ (for ATEX versions and models)
 - between the container and the plug (ground pin) in the case of electric machines, or between the container and the ground wire (supplied) in the case of compressed air models. The resistance measured must be: - less than 10Ω (for models and versions that require a compressed air supply)
- Use of the machine in work environments not classified according to the indications on the machine's nameplate.
- Vacuum the following materials:
 - Burning materials (embers, hot ashes, lit cigarettes, etc.)



- Open flames
- Combustible gases
- Flammable, combustible, aggressive liquids (gasoline, solvents, acids, alkaline solutions, etc.).
- Explosive and spontaneously igniting powders/substances and/or mixtures thereof (magnesium or aluminum powders, etc.).
- Prolonged contact with solvents and inhalation of their vapors.
- Use near open flames or heat sources; therefore, ensure adequate ventilation.
- The use of the extractor fan in rooms where the appropriate air exchange rate is not guaranteed, in cases where the exhaust air is recirculated in the aforementioned room. In order to comply with the required limit values, the recirculation volume flow rate must not exceed 50% of the fresh air volume.
- Tamper with or change the limiting valve set by the manufacturer (in models where present).
- Do not use the JetClean cleaning system in the presence of potentially explosive clouds in the atmosphere (for models and versions where this cleaning system is provided).
- Perform maintenance on the industrial vacuum cleaner in ATEX classified areas (for ATEX models and versions).
- Perform maintenance on the vacuum cleaner without first turning off the machine and unplugging the electrical plug from the outlet.
- Keep foreign materials such as debris, oil, tools and other objects inside the container that could damage operation and cause personal injury.
- The use of flammable or toxic solvents such as gasoline, benzene, ether and alcohol for cleaning.
- Use without the filter unit provided by the manufacturer.
- The use of the industrial vacuum cleaner in the absence of safety devices or with such devices inefficient
- Using the industrial vacuum cleaner with guards and protective devices not in place.
- Insert your hands inside the container positioning guides and between the container and the extractor during the operation of Inserting and locking the debris container under the vacuum cleaner itself: The movement of the lifting handle may cause your fingers to be crushed. Therefore, wear gloves when removing the suction head, filter unit, or collection container.
- Open the container with the vacuum cleaner running.
- Open the container in the area classified as potentially explosive.
- Continue to keep the vacuum cleaner switched on and powered via the mains plug during prolonged breaks in work after use.
- Add extension lines, plug-in connection devices and adapters.
- Climb onto the vacuum cleaner.
- Move the vacuum cleaner while it is running.
- Wear loose or dangling clothing such as ties, scarves, or torn clothing that could get caught or sucked into the vacuum cleaner.
- Touch electrical wires, switches, buttons, etc. with wet hands.
- When using the industrial vacuum cleaner, touching certain components (motor terminal block, motor body in particular) that could reach high temperatures.

WARNING

This vacuum cleaner may contain dust that is harmful to health.

Emptying and maintenance procedures, including the disposal of dust collection containers, should be carried out only by trained personnel wearing appropriate protective equipment.

This manual should always be available for reference on the planned operating cycle and whenever there is any doubt.

If it is lost or damaged, a replacement copy should be requested from DEPURECO.



2.3. SAFETY PLATES AND SYMBOLS

Labels bearing symbols and/or safety messages are affixed to the vacuum cleaner and on the packaging. In these pages their exact location and nature of the hazard is indicated.

WARNING

Ensure that all safety messages are legible. The user is required to immediately replace any safety labels that become illegible due to wear or damage.

Clean them using a cloth, soap and water. Do not use solvents, naphtha or gasoline. Replace damaged plates by requesting them from DEPURECO.

If a nameplate is on a part that is being replaced, make sure a new nameplate is attached to the new part.



This sticker indicates that the appliance can vacuum dust up to class M.



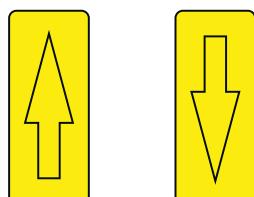
This sticker indicates that the appliance can vacuum dust up to class H.



This sticker indicates the manual filter cleaning system.



This sticker warns of the danger of crushing limbs.



This sticker indicates the need to align the components of the extractor fan for it to work properly.



This sticker indicates that the vacuum cleaner is grounded.



This sticker indicates the supply voltage of the vacuum cleaner.



This sticker indicates the supply voltage of the vacuum cleaner.



This sticker indicates the maximum level of liquid inside the container (for models and versions where applicable).



Hexagon Ex - ATEX Directive 2014/34/EU
This sticker indicates that the vacuum cleaner is certified for use in hazardous areas (for dedicated models and versions).



This sticker indicates that the device can extract combustible dust in areas not classified as Atex (for dedicated models and versions).

WARNING

Read the user and maintenance manual carefully before using the vacuum cleaner or performing maintenance.

It is strictly forbidden to remove the safety labels on the vacuum cleaner and/or its components and packaging.

DEPURECO declines all responsibility for the safety of the vacuum cleaner in the event of failure to comply with this prohibition.



2.4. RESIDUAL RISKS

DEPURECO recommends strictly following the instructions, procedures, and recommendations contained herein in this manual and current safety regulations. Furthermore, DEPURECO recommends the use of the required protective equipment, both integrated in the vacuum cleaner and individual.

From this perspective, the residual risks analyzed, present on the extractor and/or its components, may be:

Electrical hazards in maintenance due to the need to work under voltage

Pursuant to Legislative Decree 81/08 - Articles 80 to 87 - it is prohibited to work under voltage, except for the exceptions provided for in said decree.

Risk of misuse in the presence of liquid, deflagrating and flammable substances

The vacuum cleaner must not be used in environments containing liquids or substances in liquid form that may vaporize at room temperature, flammable dusts, or gases.

Risks of operating in a humid environment

Comply with the limits given in this manual in Section 1.8 "Allowable Environmental Conditions."

Risk of misinterpretation of safety pictograms

With regard to risk analysis and identification, DEPURECO has installed on the extractor of the Hazard labels taken from the regulations on graphic symbols.

The user is required to immediately replace any safety labels that become illegible due to wear or damage.

2.5. DIRECTIVES APPLIED

The following directives apply to the extractor described in this manual

- 2006/42/EC - Machinery Directive.
- 2014/30/EU - Electromagnetic Compatibility Directive
- 2011/65/EU - ROHS - Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment
- 2014/35/EU - Low Voltage Directive
- 2014/34/EU - ATEX Directive (for ATEX models and versions)

Regulatory references, including mandatory requirements, are managed in the Quality Management System and archived at DEPURECO.



2.6. ATEX SAFETY INSTRUCTIONS



- Hexagon Ex - ATEX Directive 2014/34/EU. In this manual, the Ex hexagon is placed alongside the main safety instructions on explosion risk.
- All personnel involved in installation, operation and maintenance of the equipment and its components should receive technical training corresponding to the tasks to be performed, particularly for working in areas with a potentially explosive atmosphere. Any changes made to this equipment may invalidate its safety requirements. Always follow the manufacturer's instructions.
- ZONE 20: area in which an explosive atmosphere in the form of a combustible dust cloud in the air is present permanently or for long periods or frequently. The use of the device is prohibited in areas classified as ZONE 0, 1, or 2 due to the presence of gas.
- ZONE 21: area in which, during normal activities, an explosive atmosphere in the form of a combustible dust cloud in the air is likely to occur occasionally. The use of the device is prohibited in areas classified as ZONE 0, 1, or 2 due to the presence of gas.
- ZONE 22: area in which, during normal activities, the formation of an explosive atmosphere in the form of a combustible dust cloud is unlikely and, if it does occur, will only be of short duration. The use of the device is prohibited in areas classified as ZONE 0, 1, or 2 due to the presence of gas.
- ZONE 2: area in which, during normal activities, an explosive atmosphere is not likely to occur due to the presence of flammable gases or vapors and, if it does occur, it is only for a short period of time. The use of the device is prohibited in areas classified as ZONE 0 or 1 for the presence of gas and ZONE 20, 21, or 22 for the presence of dust.
- Combustible powders with the following characteristics can be processed:

Self flammability in MIT cloud	°C	>215
Self-flammability in LIT layer	°C	>215
Minimum Trigger Energy (MIE) at all operating temperatures	°C	≥3

- It turns out that it is prohibited to use the device with hybrid mixtures, explosives and class St2 and St3 chemically unstable dusts.
- Depureco ATEX vacuum cleaners with II 1/3 D Ex h IIIC T160°C Da/Dc marking
- II 1/3 D Ex htc IIIC T140°C Da/Dc are certified to contain a ZONE 20 inside and can be used in ZONE 22.
- Depureco ATEX vacuum cleaners with II 1/2 D Ex h IIIC T160°C Da/Db marking are certified to contain a ZONE 20 inside and can be used in ZONE 21 and ZONE 22.
- Depureco ATEX vacuum cleaners with II 3/3 G Ex h IIB+H2 T4 Gc/Gc marking are certified to contain a ZONE 2 inside and can be used in ZONE 2.
- It is the responsibility of the user to ensure that the equipment is used in a manner consistent with its intended use, particularly that it is used in ZONES classified as compatible with those for which the equipment is declared suitable by the manufacturer.
- The 'device is designed to work under standard environmental conditions:
 - Temperature $-15^{\circ}\text{C} \leq \text{Tamb} \leq +40^{\circ}\text{C}$.
 - Atmospheric pressure $+0.8/1.1 \text{ bar}$.

The treated product should have a temperature not exceeding 40°C .

- Any electrical or mechanical components to be installed on the equipment must be certified of a category suitable for use:
 - 3D category (ZONE 22).
 - 2D category (ZONE 21).
 - 1D category (ZONE 20).
 - Category 3G (ZONE 2).
- For maintenance or cleaning operations, the user should ensure that the equipment used (vacuum cleaners,



portable lamps, etc.) is of a category suitable for the environment:

- 3D category (ZONE 22).
- 2D category (ZONE 21).
- 1D category (ZONE 20).
- Category 3G (ZONE 2).
- A periodic check of the equipotentiality condition, especially after maintenance operations, between the different metal parts of the equipment, especially the moving parts and filter cages, must be carried out.
- Strictly use antistatic/dissipative components that ensure electrical continuity.
- Before installation and start-up, provide visual inspection for possible transport damage. Instruments used for installation must comply with EN 1127-1 in relation to the area of use. As a preliminary operation carry out grounding and verification of its proper operation. Grounding is provided with visual indication by symbol in European Standard. In Start-up phases carry out the following checks:
 - Verify the proper grounding of the equipment and the condition of equipotentiality between the various parts of the equipment, especially the moving parts;
 - Carry out blank test with acoustic verification (abnormal noise): in case of problems stop the equipment and check the assembly of moving parts;
 - electrical wiring must be carried out by qualified personnel and according to the wiring diagram.
- Adequate training of the operator who performs installation, start-up and normal operation maneuvers of the equipment must be done during the testing and delivery of the equipment.
- The user must ensure that the plant within which the equipment will be installed has been adequately secured, from an explosion risk point of view, before it is started up, and also that the "Explosion Protection Document" has been prepared as required by the ATEX Directive 2014/34/EU.
- IT IS PROHIBITED TO INTRODUCE (ASPIRATE) IGNITION SOURCES FROM THE OUTSIDE, including those due to the self-ignition of dust or pfor burning embers.
- In the case of extraction of dusts that may give rise to self-ignition phenomena, the collection bin must be emptied immediately after each activity. This precaution should also be taken in the case of aspiration of dust of different types whose mixture may give rise to exothermic reactions.
- A periodic check of the equipotentiality condition, especially after maintenance operations, between the different metal parts of the equipment, especially the moving parts and the handle baskets, must be carried out.
- Installation, assembly and disassembly operations must be carried out on machinery that is switched off and in the absence of a potentially explosive atmosphere.
- The installer must check that the process specifications correspond to the equipment characteristics on the nameplate (e.g., with reference to the maximum surface temperature). In the case of material with incompatible product characteristics, use of the equipment is prohibited.
- Manuals for the ATEX components mounted on the equipment are provided in the appendix: the user must observe all safety instructions regarding the use of these components.
- Cleaning of equipment to prevent the formation of combustible dust layers must be carried out by the user. Do not use compressed air for cleaning from dust layers, but appropriate vacuum systems suitable for handling potentially explosive dust (ATEX-certified vacuum cleaners).
- A specially trained operator must be present at all times during the operation of the equipment and must take immediate action by stopping the equipment using the emergency button in case of malfunctions, e.g., abnormal noise (rupture of components), clogging of the inlet and vent piping, rupture of the filter sleeves, suction of foreign bodies presence or sources of ignition.
- When installing and maintaining electrical parts (e.g., cables, cable glands and terminals) always follow the instructions in EN 60079-14. When opening junction boxes (for inspections), check that the gaskets are correctly present when closing them again.
- The plug is not an ATEX type (or is not supplied): the user must connect the plug to an outlet located in a SAFE PLACE, or must arrange to install an ATEX plug.
- Hoses, suction nozzles and filter sleeves are of the antistatic type declared by their respective manufacturers. It is forbidden to use other types of components.
- Protection against atmospheric discharge must be present in the establishment where the equipment is used.
- No ignition sources should be present in the immediate vicinity of the device, for example:
 - flames;
 - embers;
 - hot surfaces;



- sparks (e.g., caused by metal cutting);
- Stray currents and cathodic protection systems;
- Electrical or mechanical equipment that is not ATEX certified;
- Electrostatic charges carried by operators or mobile equipment;
- Radio frequency (RF) and electromagnetic waves (from 10^4 Hz at 3×10^{11} Hz);
- electromagnetic waves (from 3×10^{11} Hz at 3×10^{15} Hz);
- ionizing radiation;
- ultrasound.



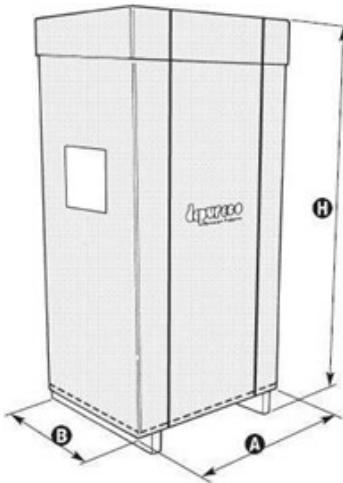


3. HANDLING, UNPACKING AND INSTALLATION SECTION

3.1. HANDLING

The instructions that follow also indicate the steps to be taken in case the vacuum cleaner should be newly packed or unpacked for later transport.

Packaging size:



	MU.	A	B	H
DF075 DF075 DEX 1/3D DF075 DEX 3/3G	[cm]	75	130	180
DF22 DF22 DEX 1/3D DF22 DEX 3/3G	[cm]	75	130	180
DF075 SP ATEX DF22 SP ATEX	[cm]	75	130	210
DF40 DF40 DEX 1/3D DF40 DEX 3/3G	[cm]	75	130	210
DF40 SP ATEX	[cm]	75 + 80	130 + 120	210 + 150

The vacuum cleaner must only be lifted and moved using a forklift truck with a load capacity suitable for its weight.

When moving with the forklift, lift the load 200 mm off the ground and swing it backward.

When lifting loads, take into account the height of the environment in which you are working.

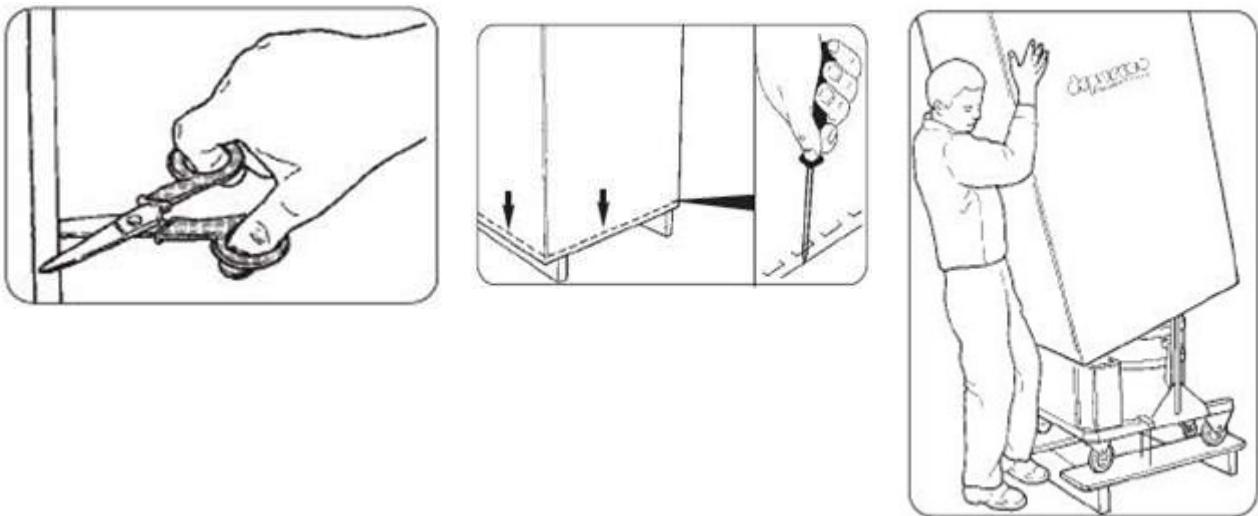
Before starting to move, make sure that the passageway is clear and that there are no loose objects on the packaging. When lifting and moving, comply with current accident prevention laws and normal forklift truck operating instructions.

Move the device only at walking pace and, on slopes, possibly in pairs.

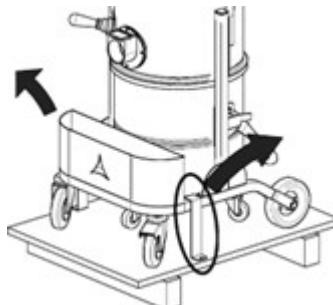


3.2. UNPACKING

To unpack the machine, cut the fastening straps and then remove the fasteners using a hammer and a screwdriver and (for versions and models where applicable) remove the cardboard packaging.



Also remove all fasteners provided by the manufacturer during packaging using appropriate tools.



Remove the machine from the support platform using a ramp with adequate load capacity and guiding the vacuum cleaner by the handle.

Conduct these operations on flat, horizontal surfaces. The load-bearing capacity of the support surface must be adequate for the weight of the machine.

Provide ample space around the system to allow freedom of movement and facilitate intervention by operators in anticipation of future maintenance work.

⚠️ WARNING

Depureco is not liable for any damage caused to the machine during lifting if the appropriate equipment is not used.

⚠️ WARNING

For any subsequent transport, the aspirator must be anchored to the support platform using a locking system similar to the one described above.

♻️ WARNING

Dispose of packaging materials in accordance with current legislation.



3.3. INSTALLATION

⚠️ WARNING!

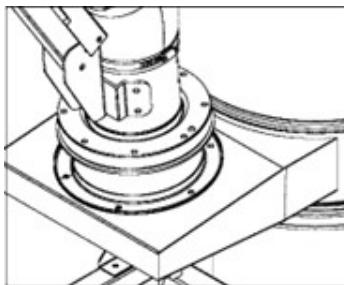
Before proceeding with the installation of the extractor fan, it is necessary to comply with the following In section 2.2 "Safety requirements."

⚠️ WARNING!

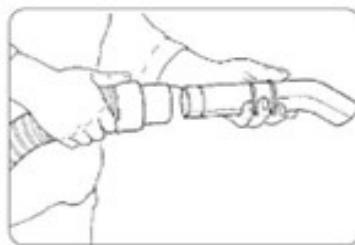
Before installing the extractor fan, it is necessary to carry out a careful visual inspection in order to identify any damage that may have occurred during transport.

If one or more components are damaged, it is essential not to proceed with installation and to report the fault to Depureco, agreeing with them on the actions to be taken. The machine arrives with the filter unit already installed.

- Insert the flexible hose with terminal or the suction arm (where applicable) into the appropriate suction nozzle equipped with a reducer;



- Insert the desired accessory for the type of suction on the opposite side of the flexible hose



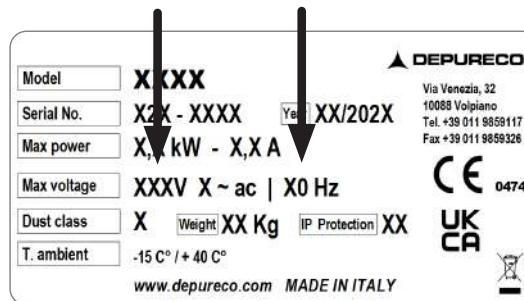
Note: The hose with its terminals and suction accessories are not included in the STANDARD equipment. Contact your dealer (or DEPURECO) for information regarding the different types of OPTIONAL accessories that can be used for this specific vacuum cleaner model.

Connection to the power supply

⚠️ WARNING

The following operation must be performed by a qualified electrician.

Check that the power supply line corresponds to the voltage and frequency indicated on the identification plate of the extractor fan and that it is equipped with an efficient ground connection.



The power outlet used to power the vacuum cleaner must be protected by a CE-compliant mains isolator. Finally, insert the plug (supplied as standard) into the power outlet.

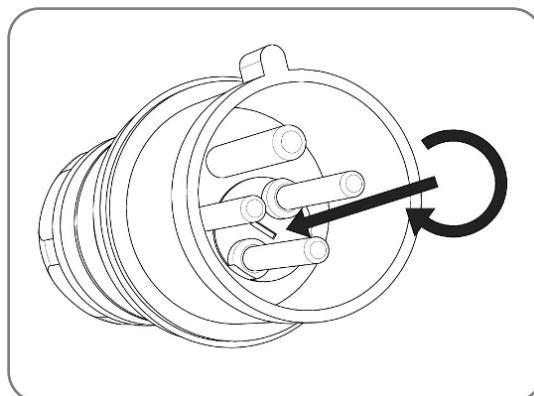


⚠️ WARNING

Do not insert the plug into the power outlet with wet hands. The use of extension cords is not permitted. Before plugging the vacuum cleaner into the power outlet, ensure that:

- The power cord is intact and in perfect condition.
- The voltage of the power supply line must correspond to that indicated on the data plate label of the vacuum cleaner.
- The power plug is properly inserted into the power outlet.
- The flexible hose must be correctly inserted and locked into the appropriate suction nozzle.
- The debris collection container must be present and locked onto the vacuum cleaner.
- No dust escapes when replacing accessories.

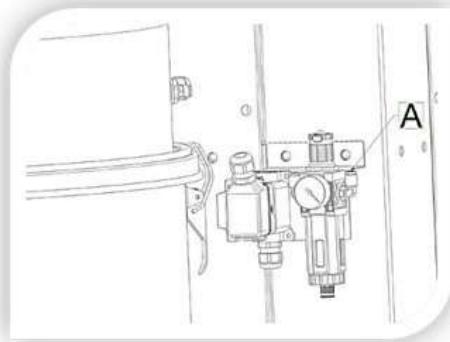
If the motor rotation direction is incorrect, simply insert a screwdriver into the slot inside the power plug and reverse two poles by turning them 180° (for versions and models where applicable).



Before turning on the vacuum cleaner again, make sure the pump has stopped completely.

Pneumatic power connection (for versions and models where provided)

- Connect to connection "A" shown in the figure. The required air supply is max. 6 bar.
- To ensure proper operation, the air fed into the vacuum cleaner, must be dehumidified.





4. OPERATION SECTION

4.1. COMMAND DESCRIPTION

⚠️ WARNING

Before using the vacuum cleaner, it is necessary to comply with the following instructions
In section 2.2 "Safety requirements."

⚠️ WARNING

Only authorized personnel who have read these instructions for use and maintenance are permitted to use the vacuum cleaner.

The user of the device and the maintenance technician who perform the permitted operations on the vacuum cleaner must receive appropriate training, information, and instruction, as required by current workplace safety laws, and must use the required personal protective equipment (PPE) for the various operations, such as safety footwear, gloves, protective eyewear, masks, etc. The user must comply with the regulations in force for the materials vacuumed and their disposal.

⚠️ WARNING

Before starting a new work cycle, the personnel in charge must verify that the normal operating safety conditions of the vacuum cleaner are guaranteed, and in particular the safety devices and protective guards involved in the operation.

⚠️ WARNING

In case of prolonged breaks in work and at the end of use, switch off the device using its switch and unplug it from the mains.



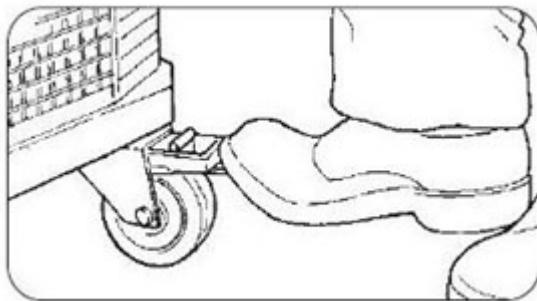
4.2. DUTY CYCLE

Before starting suction, it is necessary to comply with the following in section 2.2 "Safety requirements." In particular:

- Make sure the power cord is not damaged and is in perfect condition.
- Before plugging in the power cord, make sure that the voltage of the power supply matches that indicated on the device's rating plate.
- Make sure the power plug is properly inserted into the power outlet.
- Ensure that the suction arm or flexible hose is properly inserted and locked into the suction inlet.
- Ensure that the debris collection container is regularly present and locked under the vacuum chamber.

To start suction, proceed as follows:

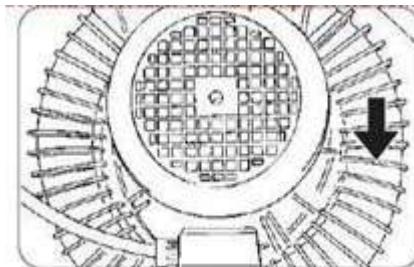
- Lock the vacuum cleaner using the lever on the swivel wheel, as shown in the figure. To move the vacuum cleaner, use the handle located at the rear.



⚠️ WARNING

Do not move the vacuum cleaner while it is in operation.

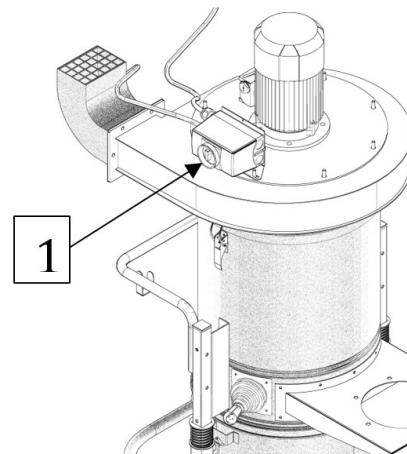
- Hold the end of the hose with the selected suction accessory or place the end of the suction arm at the suction point.
- Rotate the disconnector from O a I Press "1" to start suction.
- Check that the direction of fan rotation is as indicated by the arrow in the figure.



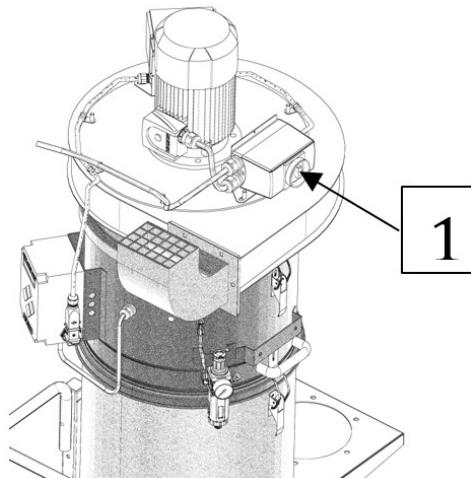
- Turn the switch from I to O [1] to stop suction.



DF075 | DF22 | DF40 | DF075 DEX 1/3D | DF075 DEX 3/3G | DF22 DEX 1/3D | DF22 DEX 3/3G | DF40 DEX 1/3D | DF40 DEX 3/3G

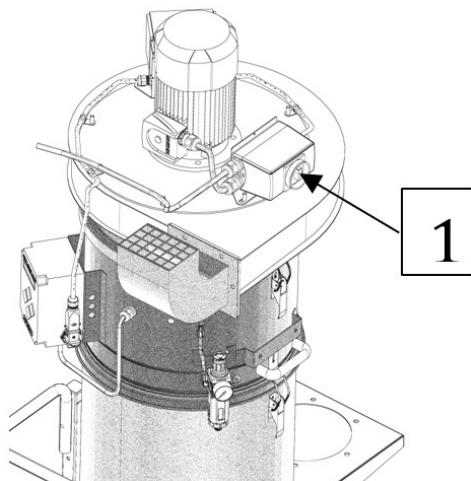


DF075 SP ATEX | DF22 SP ATEX | DF40 SP ATEX



CLEANING OPTION SP - CARTRIDGES IN AIR CONTROCORRENT

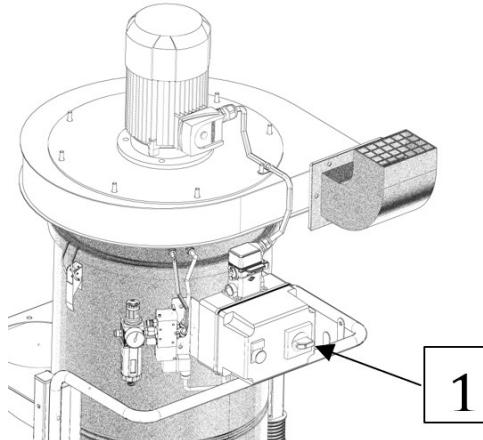
DF075 | DF22 | DF40





PSC CLEANING OPTION - PNEUMATIC FILTER SHAKER

DF075 | DF22 | DF40



ALL MODELS

⚠ ATTENTION!

During operation, avoid stepping on, crushing, pulling, or damaging the power cord. Avoid disconnecting the cord from the power supply by pulling on the plug only (do not pull on the cord itself). If the power cord needs to be replaced, replace it only with one of the same type as the original cord installed. Replacement must be performed by the manufacturer or equivalent qualified personnel.

Those responsible for plant safety must ensure that:

- Any improper use or maneuvering be avoided.
- Safety devices are not removed or tampered with.
- Regular maintenance work is carried out.
- Machine parts (attachments, drilling, etc.) are not modified for any reason to fit additional devices.
- Only original Depureco spare parts should be used.
- During suction, avoid rolling or bending the hose.

If dust is coming out of the vacuum cleaner head, the filter may be broken. In this case, stop the vacuum cleaner immediately.

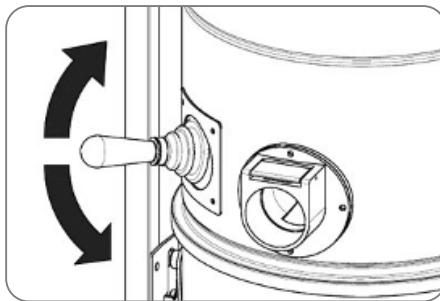


4.3. FILTER CLEANING CYCLE

DF075 | DF22 | DF40 | DF075 DEX 1/3D | DF075 DEX 3/3G | DF22 DEX 1/3D | DF22 DEX 3/3G | DF40 DEX 1/3D | DF40 DEX 3/3G

It is advisable to run a filter cleaning cycle every 20 minutes of use or when you notice a drop in performance. To run a filter cleaning cycle, proceed as follows:

- Turn off the machine Turning the disconnector from I a O.
- Wait for the engine to come to a complete stop.
- Lift and then lower the lever vigorously to shake the internal filter.



If the extractor fan does not work properly after cleaning the filter, the main filter may need to be replaced (see dedicated chapter). If the depression does not reduce significantly by replacing the filter, it means that there is another problem (see chapter "If something is not working").

DF075 SP ATEX | DF22 SP ATEX | DF40 SP ATEX

Cleaning is done automatically and continuously while the filter is in use.

For information on the use and maintenance of the PN 2-12 cyclic sequencer shown, refer to the dedicated manual.





CLEANING OPTION SP - CARTRIDGES IN AIR CONTROCORRENT

DF075 | DF22 | DF40

Cleaning is done automatically and continuously while the filter is in use.

For information on the use and maintenance of the PN 2-12 cyclic sequencer shown, refer to the dedicated manual.

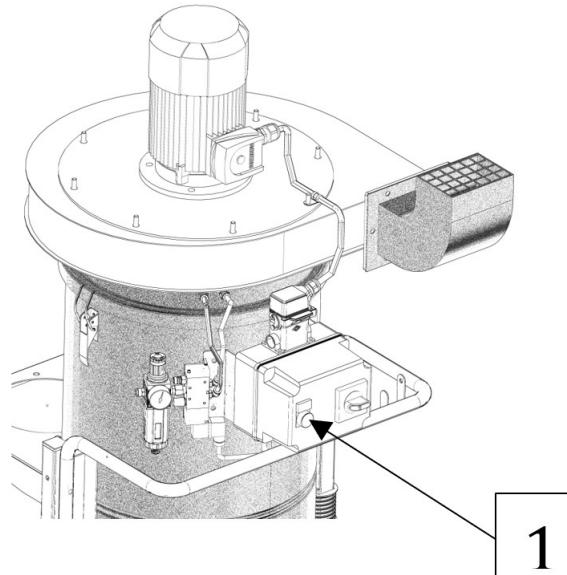


PSC CLEANING OPTION - PNEUMATIC FILTER SHAKER

DF075 | DF22 | DF40

To perform a filter cleaning cycle, proceed as follows:

- Turn off the machine Turning the disconnector from I a O.
- Wait for the engine to come to a complete stop.
- To perform cleaning, press and hold the "1" button shown in the figure. When the button is released, cleaning stops



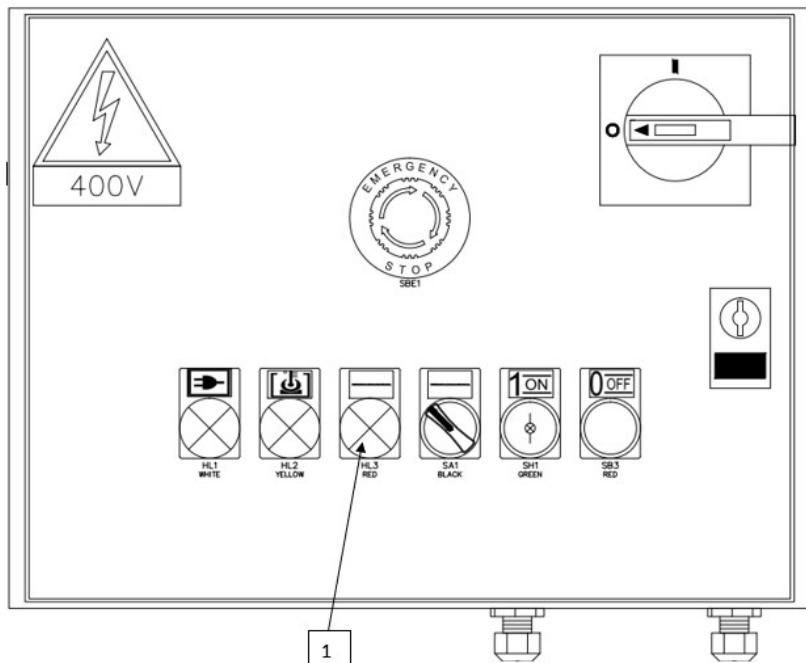


DIFFERENTIAL PRESSURE SWITCH OPTION

DF075 | DF22 | DF40

When indicator light "1" comes on, it means the filters are clogged. The signal is sent by the differential pressure switch, but it doesn't stop the suction system. Clean the filters.

The operating value of the differential pressure switch is adjusted using the knob with a graduated scale. For further information on the differential pressure switch, refer to the technical documentation and information material provided by the manufacturer.



ALL MODELS

⚠️ WARNING

If the extractor does not work properly after cleaning the filter, the main filter may need to be replaced (see dedicated chapter). If the vacuum does not decrease significantly by replacing the filter, there is another problem (see chapter "If something is not working").

⚠️ WARNING

Never use the machine with a clogged filter.

⚠️ WARNING

If dust is coming out of the silencer, the filter may be broken. In this case, stop the vacuum cleaner immediately and check the cause.

4.4. EMPTYING THE CONTAINER

⚠️ WARNING

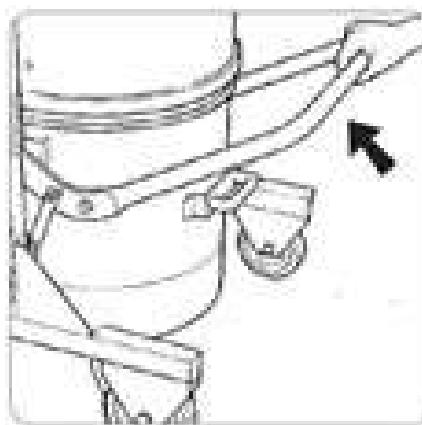
The container must be emptied not only when it is full, but also at the end of each work cycle and before being transported. During this operation, use the appropriate PPE (gloves, dust mask, goggles, etc.).

Depending on the type and quantity of material vacuumed, the debris collection container must be checked periodically to prevent it from becoming excessively full.

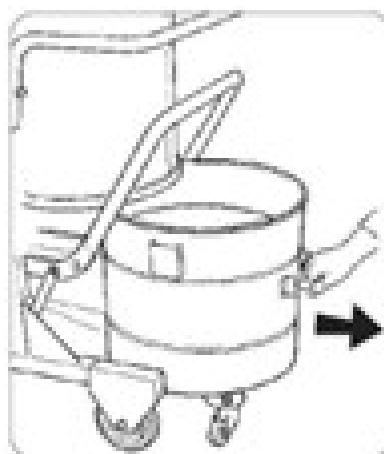


To empty the container, proceed as follows:

- Turn off the machine by turning the disconnect switch from I a O.
- Unlock the container using the lever provided.



- Remove the container located under the filter chamber using the handle provided.



- Dispose of debris in a waste disposal container in accordance with the laws in force in the country of use.



If you are using a plastic bag to collect debris, proceed as follows to replace it:

- After removing the container, tie the bag, remove it, and insert a new bag.





⚠️ **WARNING**

If the container weighs more than 15 kg, you will need to ask someone else to help you.

♻️ **WARNING**

Waste disposal must be carried out in accordance with the laws in force in the country where the vacuum cleaner is used - for Italy, Legislative Decree 152/2006 and subsequent amendments and additions.

Clean the inside and outside of the appliance by vacuuming and wiping with a damp cloth.

When vacuuming the appliance, use a vacuum cleaner with the same or better rating.

⚠️ **WARNING**

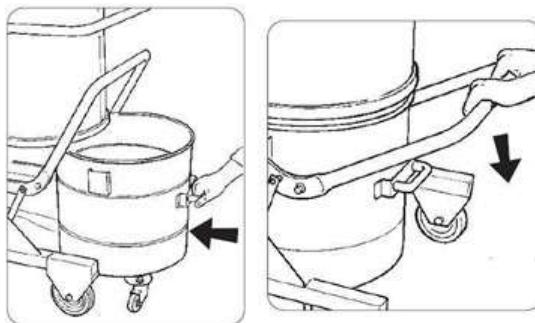
In the case of dust extraction that may give rise to self-ignition phenomena, the collection bin must be emptied immediately after each activity.

This precaution should also be taken in the case of aspiration of dust of different types whose mixture may give rise to exothermic reactions.

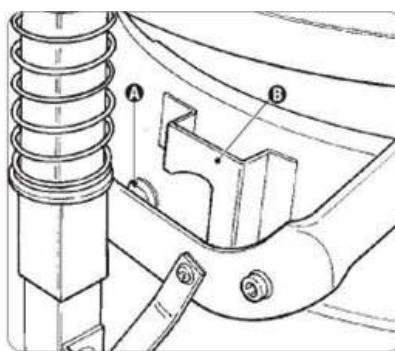
4.5. INSERTING AND LOCKING THE CONTAINER

To insert and lock the container, proceed as follows:

- Insert the container under the vacuum cleaner, holding the lever up, until it comes to a complete stop against detentions.
- Lower the container locking lever completely and with both hands.



- The pins "A," located on both sides, must be aligned with the slots "B."



⚠️ **WARNING**

Danger of crushing upper limbs!

Never place your hands between the container and the vacuum cleaner during the locking operation.

Perform the container locking operation by acting on the appropriate lever with **BOTH HANDS**.

4.6. STORAGE - DECOMMISSIONING

Remove the filter and clean it, empty the debris collection container, and store it. Store the vacuum cleaner in a place protected from the elements, at temperatures between 5° and 45°C, covering it with a nylon sheet to prevent dust accumulation.





5. MAINTENANCE SECTION

⚠️ WARNING

Extraordinary maintenance of the vacuum cleaner must only be carried out by specialized technicians approved by the DEPURECO dealer.

5.1. INFORMATIONAL NOTES

Maximum reliability of the vacuum cleaner and minimum maintenance costs are the result of a maintenance and inspection program that is planned and scrupulously followed throughout the entire life of the vacuum cleaner itself. It is important to:

- Strictly adhere to the established maintenance intervals and schedule maintenance according to specific needs in relation to the production cycle of the vacuum cleaner.
- Always use tools that are in perfect condition and specifically designed for the task at hand; the use of unsuitable or inefficient equipment can cause serious damage.
- Any other work that may be necessary to eliminate faults or malfunctions must be expressly authorized by the manufacturer.
- For major repairs, it is advisable to contact the authorized dealer whose trained staff, equipped with all the technological experience of the original factory construction, is always on call and able to take timely action.
- Periodically open and clean the pump housing (for versions and models where such a housing is present), preferably using a vacuum system or a wet cloth. Where possible, it is advisable to carry out this operation by moving the vacuum cleaner to a safe area.
- For maintenance by the user, it is necessary to dismantle, clean, and service the vacuum cleaner, provided that this can be done without endangering maintenance personnel or third parties. Appropriate precautions include decontamination prior to disassembly, measures for forced filtered ventilation of the room in which the device is disassembled, cleaning of the maintenance area, and appropriate personal protective equipment.
- The manufacturer or qualified person must check the filters at least once every three months (or more frequently depending on the work cycle and conditions of use), ensuring that they are not damaged, and also check that the control devices are working properly.

♻️ WARNING

Following maintenance or repair operations, all contaminated items that cannot be cleaned satisfactorily must be placed in waterproof bags and disposed of in accordance with applicable laws

5.2. GENERAL SAFETY STANDARDS

⚠️ WARNING

All maintenance, repair, or cleaning operations must be performed with the plug disconnected from the power outlet (and the air disconnected for the SP system). It is necessary to wear appropriate PPE (protective clothing, goggles, and/or gloves, etc.) depending on the work to be performed.

Place a sign on the extractor fan indicating:
"MACHINE UNDER MAINTENANCE DO NOT START"

Before resuming service, double-check the entire system in accordance with the start-up procedures. After each maintenance operation, perform several test cycles to verify that the machine is functioning correctly. Failure to observe these precautions may result in serious injury to personnel.

Maintenance work must be performed by technicians who are skilled and trained in the specific areas, which for this machine are:

- Mechanical maintenance;
- Electrical maintenance.

It is the specific duty of the **Head of Security** to ensure the professionalism and competence of the



aforementioned people.

Before starting a maintenance task, the Safety Officer must:

- Have strangers leave the work area;
- Ensure that the necessary tools are within reach of the maintenance technician and are in good condition;
- Ensure that the maintenance technician is equipped with the personal protective equipment required for the specific operation (gloves, goggles, shoes, mask, etc.).
- Ensure that the maintenance technician has carefully read the instructions contained in this manual and is fully familiar with the operation of the vacuum cleaner and its components.
- Check that there is sufficient lighting and, if necessary, provide portable lamps powered by 24 V.

Before starting maintenance work, the Maintenance Technician must

- Disconnect all power supplies;
- Put the vacuum cleaner in a safe lockout condition;
- Disconnect the compressed air connection (where applicable).

WARNING

If it is absolutely necessary to operate with the power supply connected, as required by Legislative Decree 81/08, the maintenance technician must keep a safe distance, have stop buttons within easy reach, and never put their hands in the discharge volume.

At the end of the intervention and before resuming service, the maintenance technician must recheck the functionality of the safety devices and the integrity of the protections.

Work on motors or other electrical components should be performed only by the specially trained Electrical Maintenance Worker authorized by the Safety Officer.

WARNING

After each maintenance operation, the Safety Manager is required to check the safety conditions of the vacuum cleaner and its protective devices.

Before each work shift:

- Check that the power cord and plug are not damaged: replace it immediately if it shows signs of wear and tear, using a cord of the same type (information c/o DEPURECO) - operation the sole responsibility of an electrician.
- Check the integrity of the safety symbols (pictograms) applied to the extractor fan.
- Check that the debris collection container is empty and correctly secured under the vacuum cleaner.
- Check that the filter is working properly by checking the indicator light or vacuum gauge (where applicable).
- Check the integrity of the suction hose and accessories to be used through regular visual inspection.

WARNING

If the flexible hose is punctured, it reduces suction power and disperses dust into the air.



5.3. REPLACING THE PRIMARY FILTER

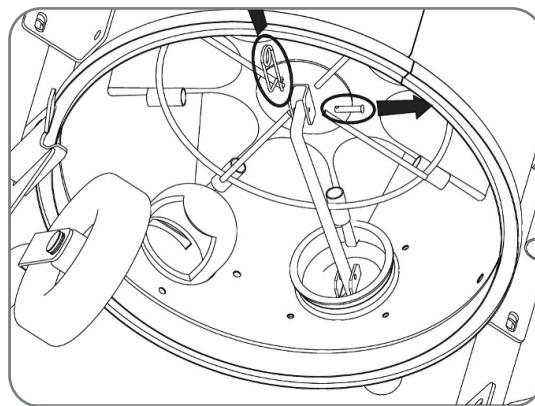
⚠️ WARNING

Wear appropriate PPE (dust mask, latex gloves, goggles, etc.).

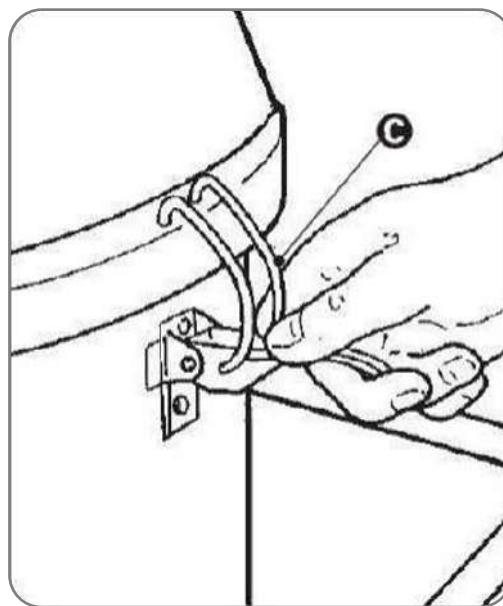
DF075 | DF22 | DF40 | DF075 DEX 1/3D | DF075 DEX 3/3G | DF22 DEX 1/3D | DF22 DEX 3/3G | DF40 DEX 1/3D | DF40 DEX 3/3G

For the **filter replacement stellar**, Proceed as follows:

- Turn off the machine Turning the disconnector from I a O.
- Disconnect the vacuum cleaner from the power supply.
- Remove the container as described in section 4.4.
- From the bottom of the filter chamber, unhook the clip and remove the pin securing the cage to the filter shaking lever.

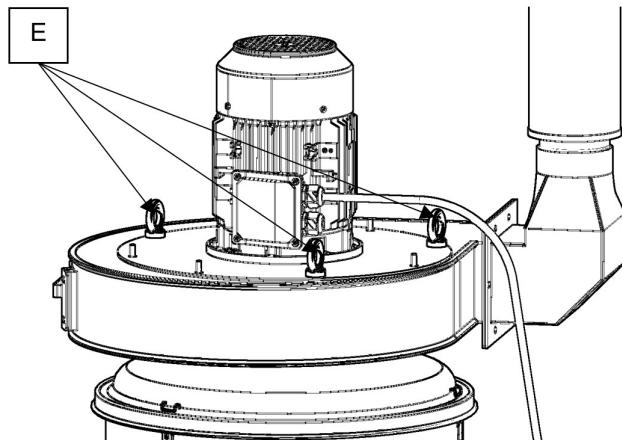


- Unlock the "C" fasteners on the sides of the head base on the filter chamber.





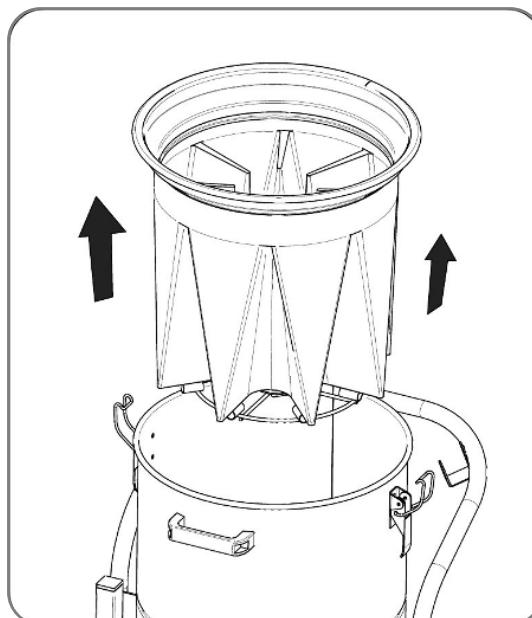
- Use 3 M8 "E" eye bolts (not supplied) and screw them onto the studs on the upper flange of the fan to lift the head of the extractor.



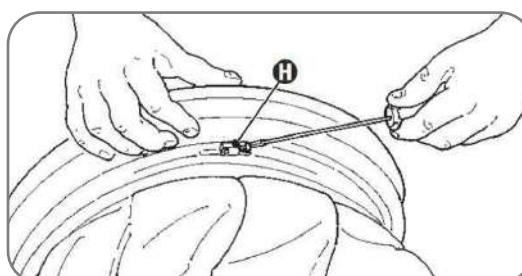
⚠️ WARNING

Use lifting straps that are suitable for the total weight of the motor base.

- Remove the filter and place everything on a workbench.

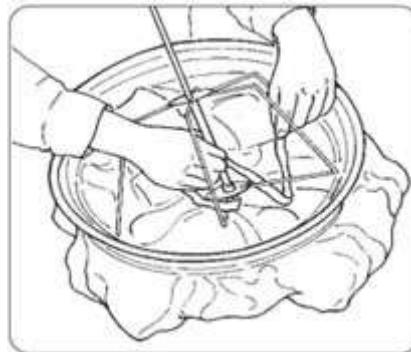


- Loosen the fastening clamp "H," remove the filter from its support, and use scissors to cut the lower straps that secure it to the shaking cage.





- Remove the filter, place it inside a plastic bag, close it, and dispose of it according to the laws in force for the type of material vacuumed.

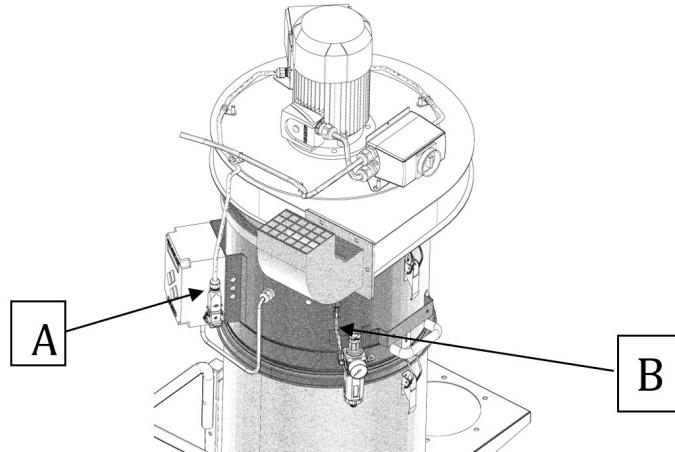


For **reinstall the new filter**, proceed in reverse order to that described above.

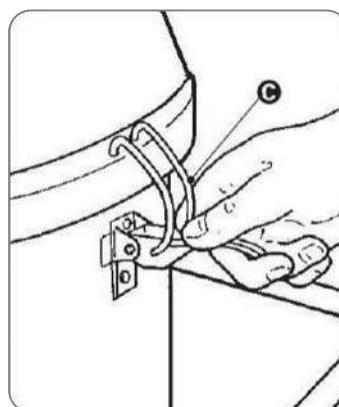
DF075 SP ATEX | DF22 SP ATEX

For the **replacement of filter cartridges**, Proceed as follows:

- Turn off the extractor fan.
- Disconnect the vacuum cleaner from the power supply and compressed air supply.
- Disconnect compressed air hose "B" from the head.
- Disconnect electrical connector "A."

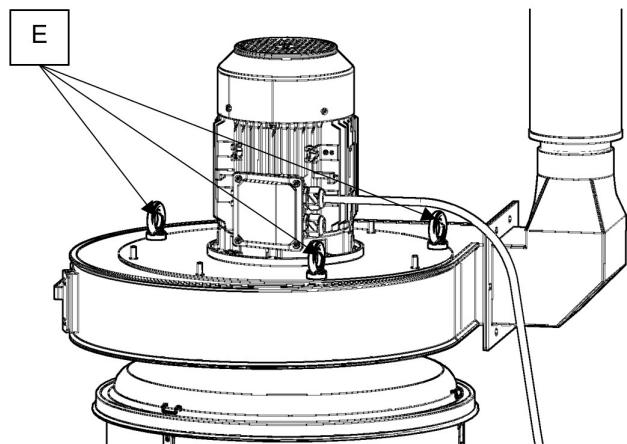


- Unlock the locking hooks (C) on the sides of the head base on the filter chamber.





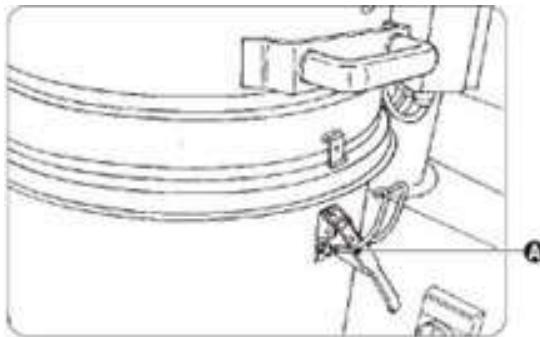
- Use 3 M8 "E" eye bolts (not supplied) and screw them onto the studs on the upper flange of the fan to lift the head of the extractor fan.



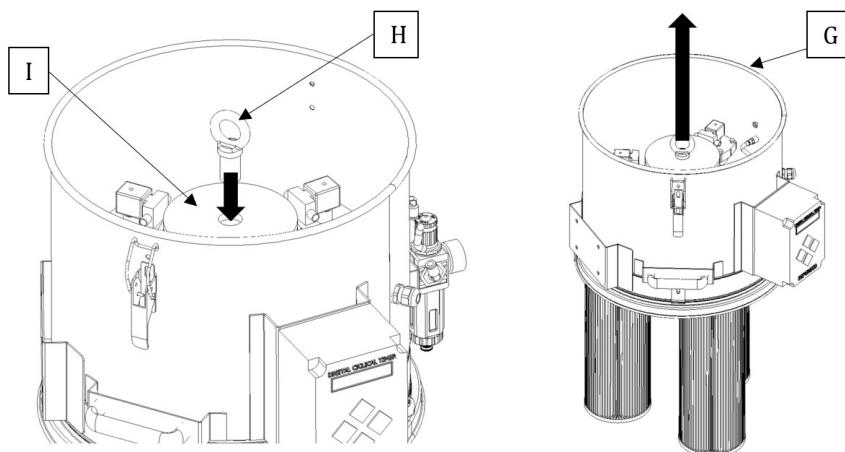
⚠️ **WARNING**

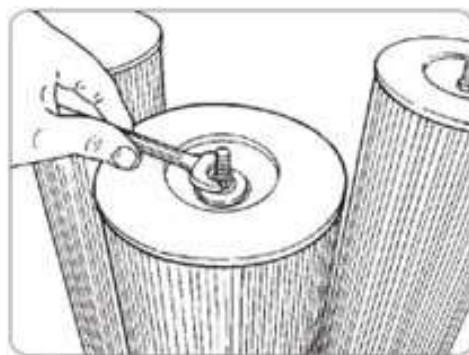
Use lifting straps that are suitable for the total weight of the motor base.

- Unlock the SP cleaning system from the appropriate "A" locking hooks.

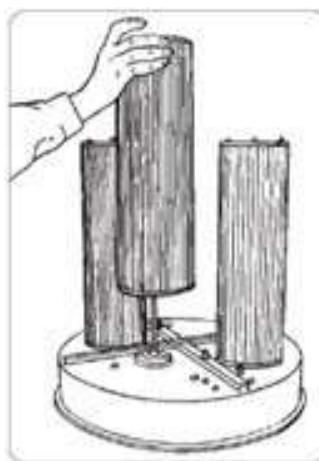


- Using an "H" eyebolts (not included) with GAS thread and G1 male connection (screw the eye bolt into the threaded hole on the top of the tank "I") and with the aid of suitable equipment (straps and lifting and handling systems), lift the filter cartridge support unit "G" and place it upside down on a workbench.
- From the base of the cartridges, remove and unscrew the retaining nuts.





- Remove and replace the filter cartridges

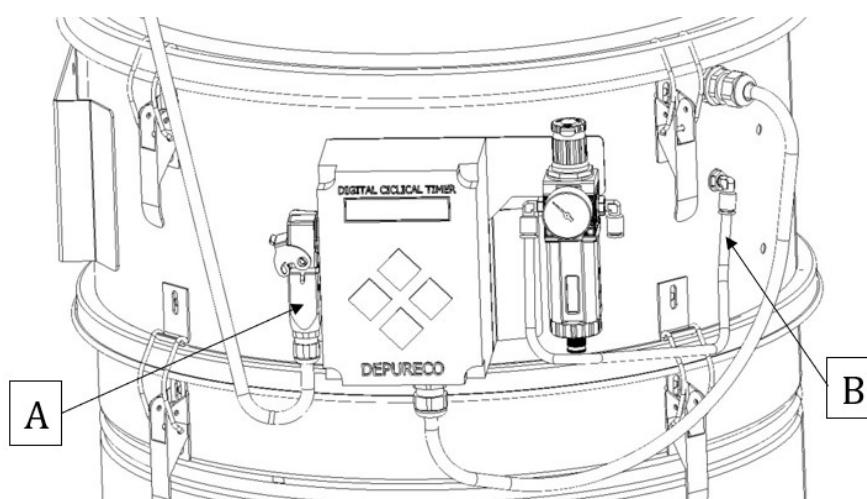


For reinstall the new cartridges, proceed in reverse order to that described above.

DF40 SP ATEX

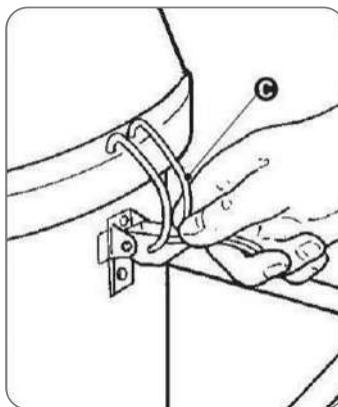
For the **replacement of filter cartridges**, Proceed as follows:

- Turn off the extractor fan.
- Disconnect the vacuum cleaner from the power supply and compressed air supply.
- Disconnect compressed air hose "B" from the head.
- Disconnect electrical connector "A."

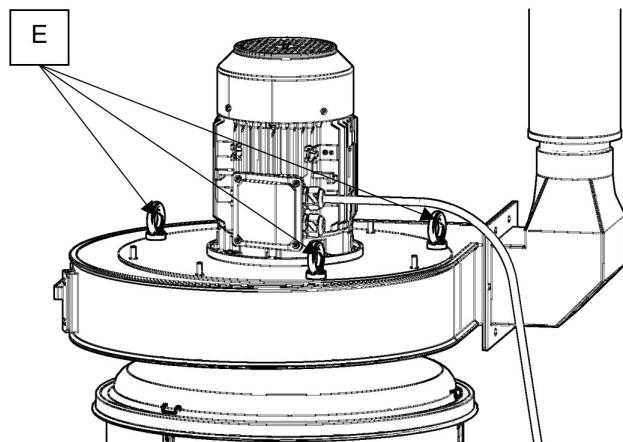




- Unlock the "C" fasteners on the sides of the head base located on the filter prechamber.



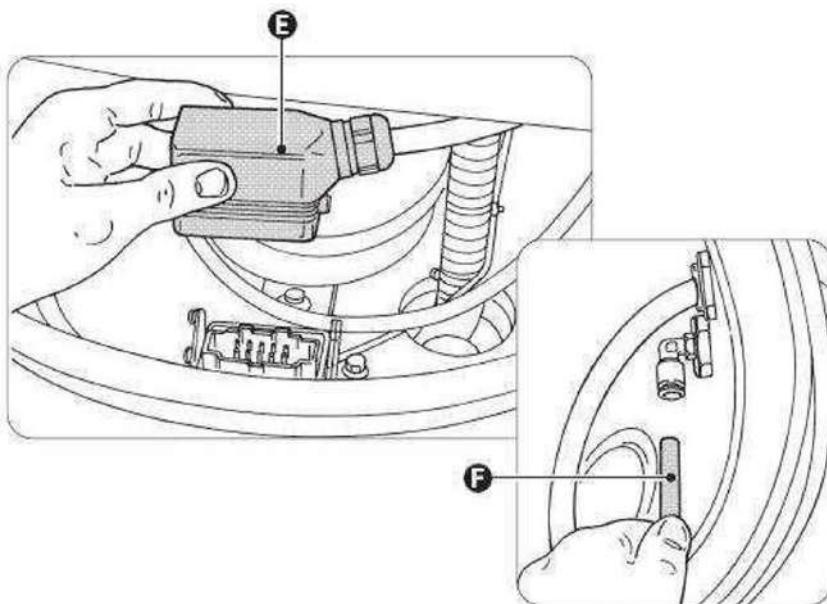
- Use 3 M8 "E" eye bolts (not supplied) and screw them onto the studs on the upper flange of the fan to lift the head of the extractor



⚠️ WARNING

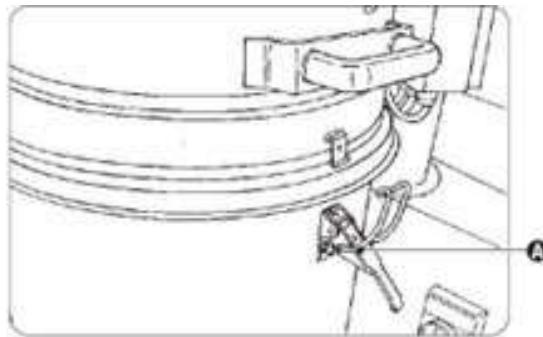
Use lifting straps that are suitable for the total weight of the motor base.

- Disconnect connector "E" and disconnect the pneumatic supply hose "F" from the appropriate fitting.

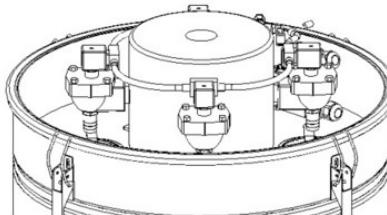
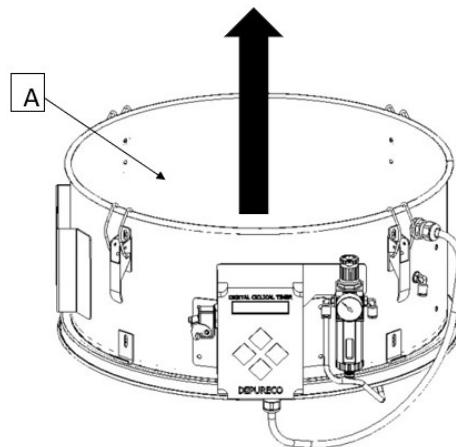




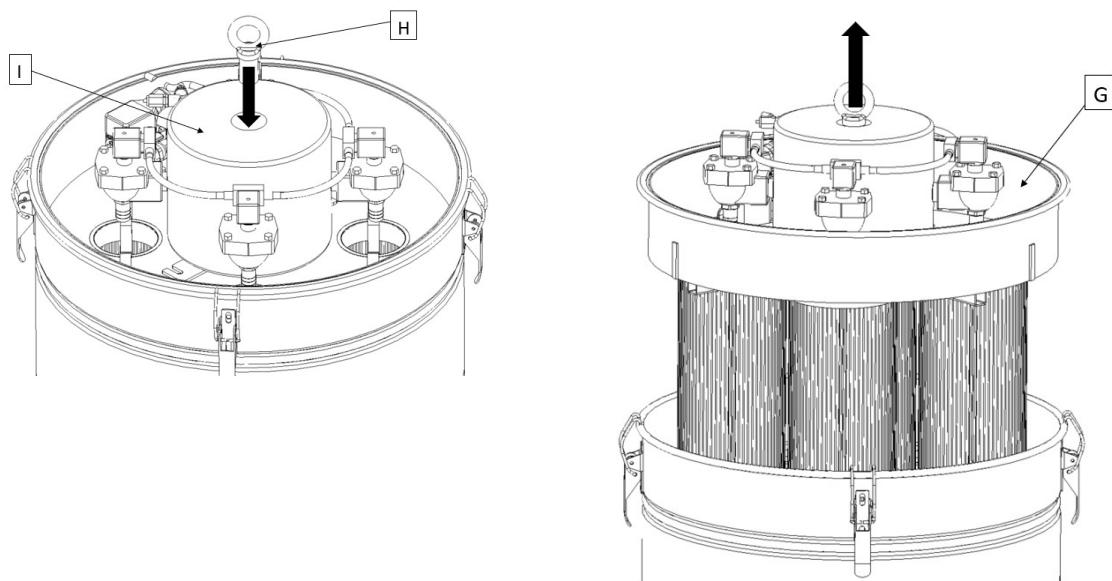
- Unlock the SP cleaning system from the special "A" closing hooks on the filter chamber.



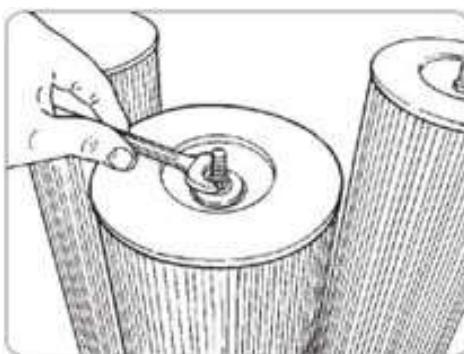
- Lift prechamber "A" out of the filter chamber so that the cleaning system can then be removed.
- Using an "H" eyebolts (not included) with GAS thread and G1 male connection (screw the eye bolt into



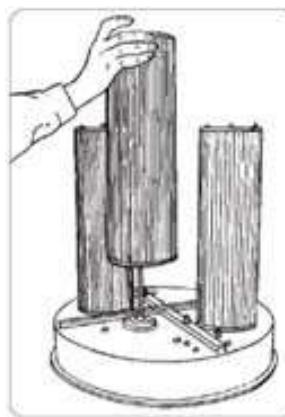
the threaded hole on the top of the tank "I") and with the aid of suitable equipment (straps and lifting and handling systems), lift the filter cartridge support unit "G" and place it upside down on a workbench.



- From the base of the cartridges, remove and unscrew the retaining nuts.



- Remove and replace the filter cartridges



For reinstall the new cartridges, proceed in reverse order to that described above.



Remove the filter, place it inside a plastic bag, close it, and **dispose of it in accordance with current laws** for the type of material being vacuumed.

**⚠ USE EXCLUSIVELY
ORIGINAL DEPURECO FILTERS!**

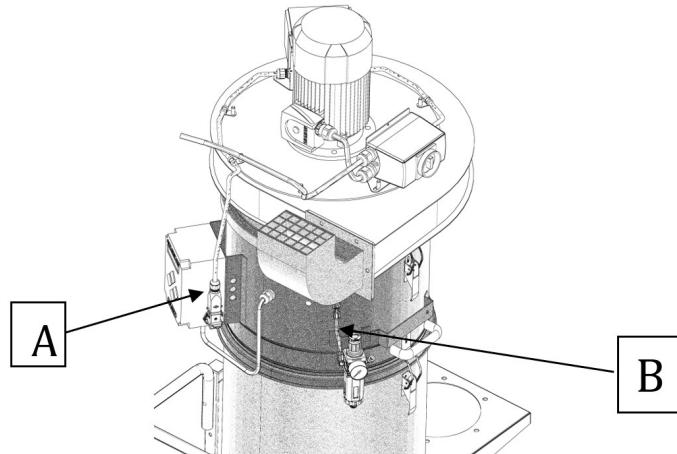


CLEANING OPTION SP - CARTRIDGES IN AIR CONTROCORRENT

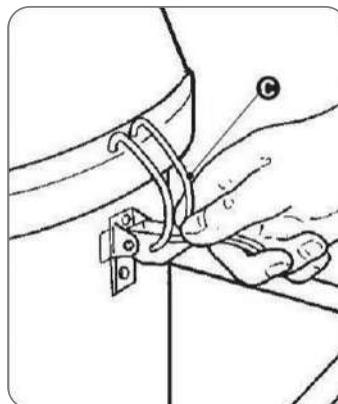
DF075 | DF22

For the replacement of filter cartridges, Proceed as follows:

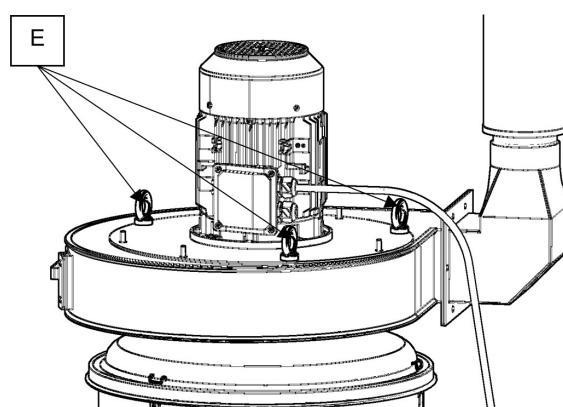
- Turn off the extractor fan.
- Disconnect the vacuum cleaner from the power supply and compressed air supply.
- Disconnect compressed air hose "B" from the head.
- Disconnect electrical connector "A."



- Unlock the locking hooks (C) on the sides of the head base on the filter chamber.



- Use 3 M8 "E" eye bolts (not supplied) and screw them onto the studs on the upper flange of the fan to lift the head of the extractor fan.

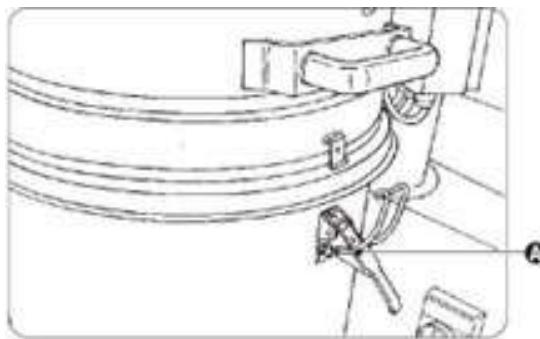




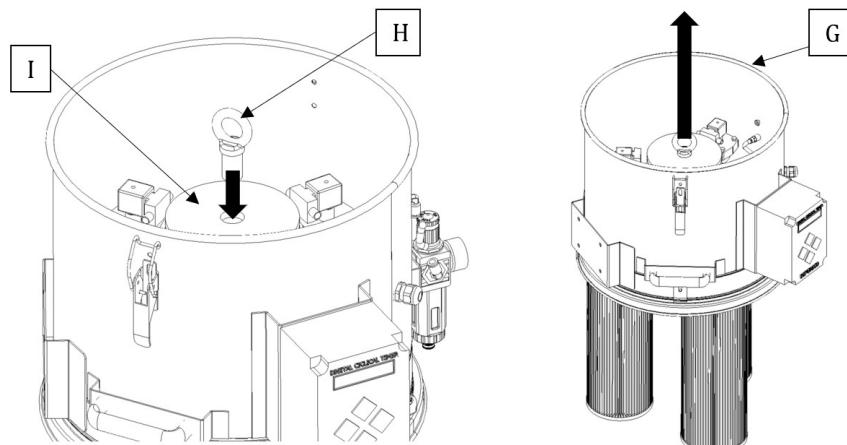
⚠️ WARNING

Use lifting straps that are suitable for the total weight of the motor base.

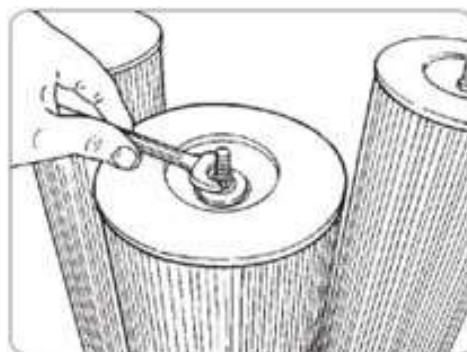
- Unlock the SP cleaning system from the appropriate "A" locking hooks.



- Using an "H" eyebolts (not included) with GAS thread and G1 male connection (screw the eye bolt into the threaded hole on the top of the tank "I") and with the aid of suitable equipment (straps and lifting and handling systems), lift the filter cartridge support unit "G" and place it upside down on a workbench.

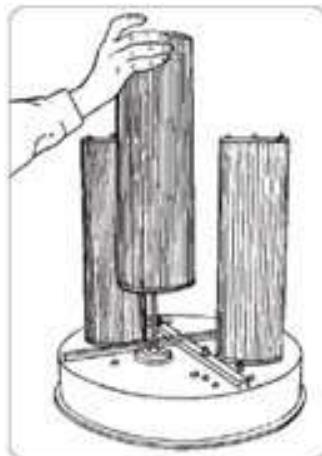


- From the base of the cartridges, remove and unscrew the retaining nuts.





- Remove and replace the filter cartridges



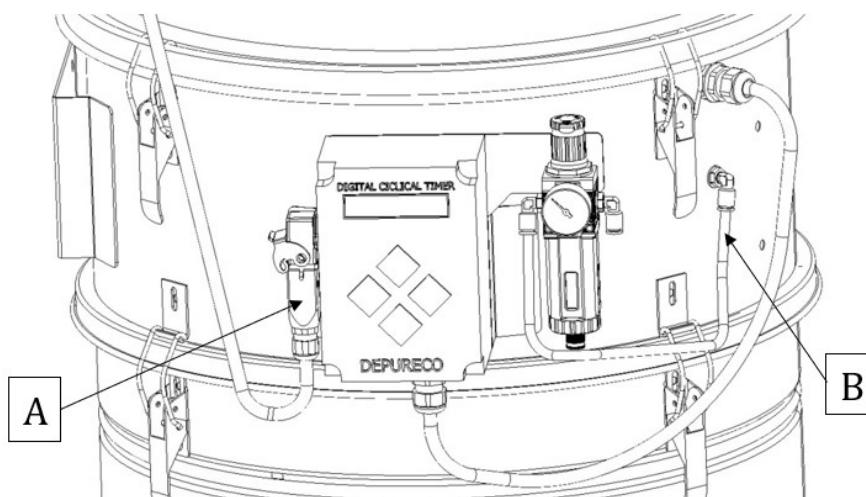
For **reinstall the new cartridges**, proceed in reverse order to that described above.

CLEANING OPTION SP - CARTRIDGES IN AIR CONTROCORRENT

DF40

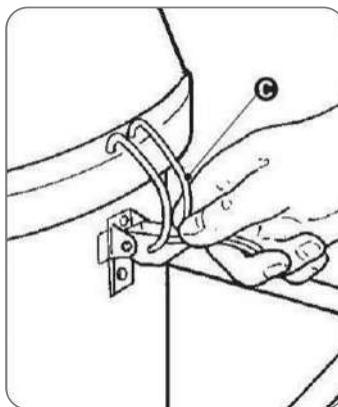
For the **replacement of filter cartridges**, Proceed as follows:

- Turn off the extractor fan.
- Disconnect the vacuum cleaner from the power supply and compressed air supply.
- Disconnect compressed air hose "B" from the head.
- Disconnect electrical connector "A."

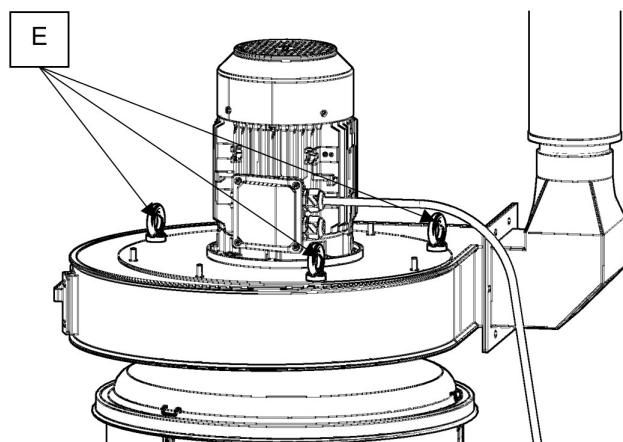




- Unlock the "C" fasteners on the sides of the head base located on the filter prechamber.



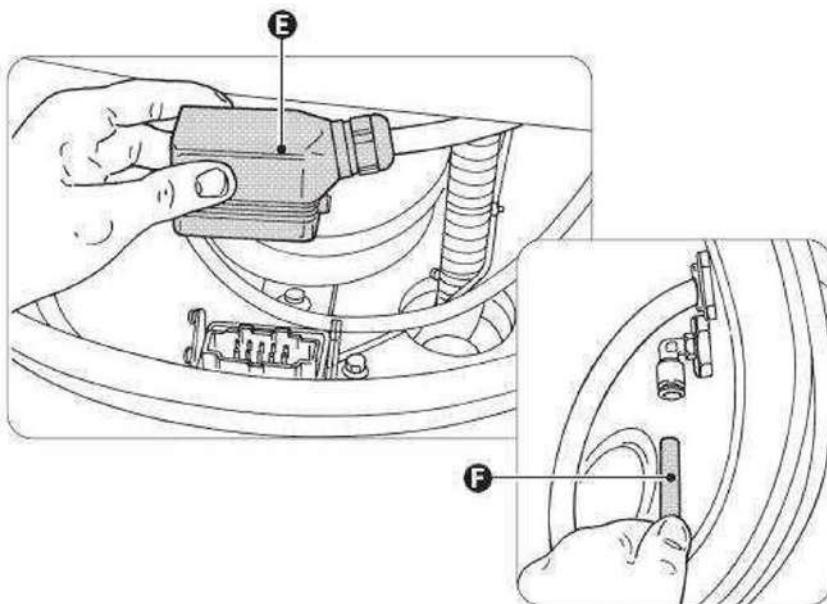
- Use 3 M8 "E" eye bolts (not supplied) and screw them onto the studs on the upper flange of the fan to lift the head of the extractor



⚠️ WARNING

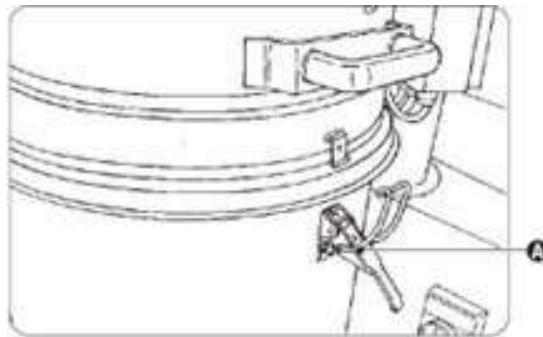
Use lifting straps that are suitable for the total weight of the motor base.

- Disconnect connector "E" and disconnect the pneumatic supply hose "F" from the appropriate fitting.

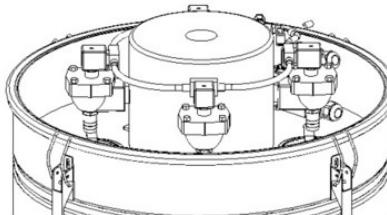
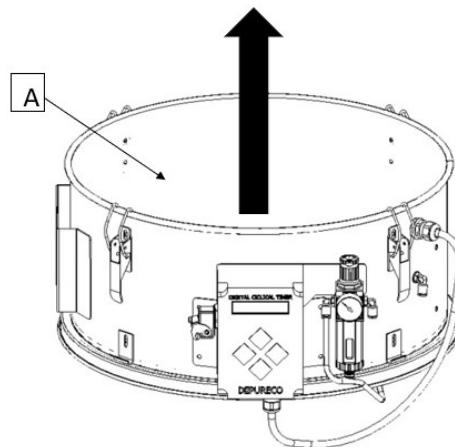




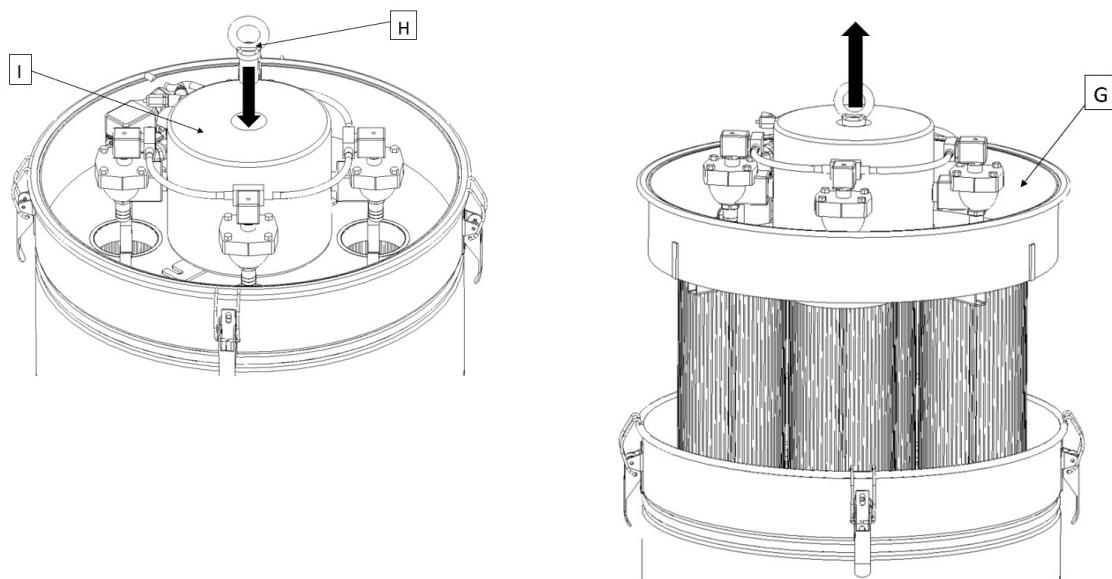
- Unlock the SP cleaning system from the special "A" closing hooks on the filter chamber.



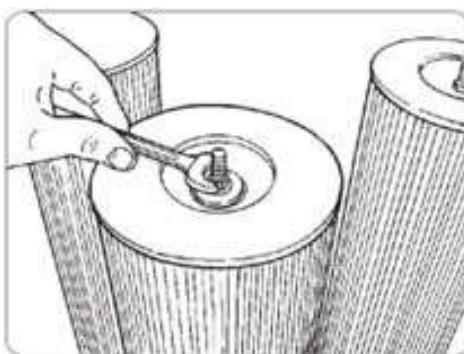
- Lift prechamber "A" out of the filter chamber so that the cleaning system can then be removed.
- Using an "H" eyebolts (not included) with GAS thread and G1 male connection (screw the eye bolt into



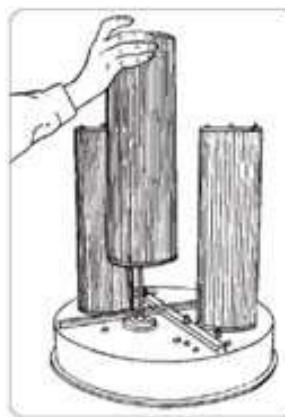
the threaded hole on the top of the tank "I") and with the aid of suitable equipment (straps and lifting and handling systems), lift the filter cartridge support unit "G" and place it upside down on a workbench.



- From the base of the cartridges, remove and unscrew the retaining nuts.



- Remove and replace the filter cartridges



For reinstall the new cartridges, proceed in reverse order to that described above.



Remove the filter, place it inside a plastic bag, close it, and **dispose of it in accordance with current laws** for the type of material being vacuumed.

**⚠ USE EXCLUSIVELY
ORIGINAL DEPURECO FILTERS!**

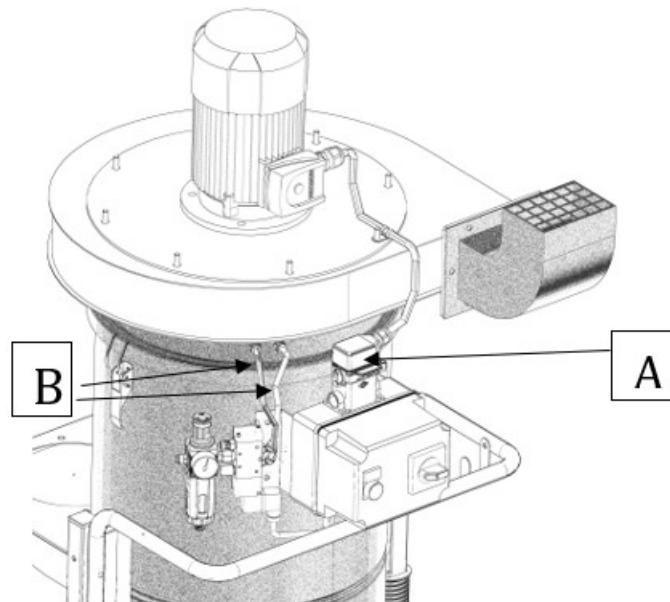


PSC CLEANING OPTION - PNEUMATIC FILTER SHAKER

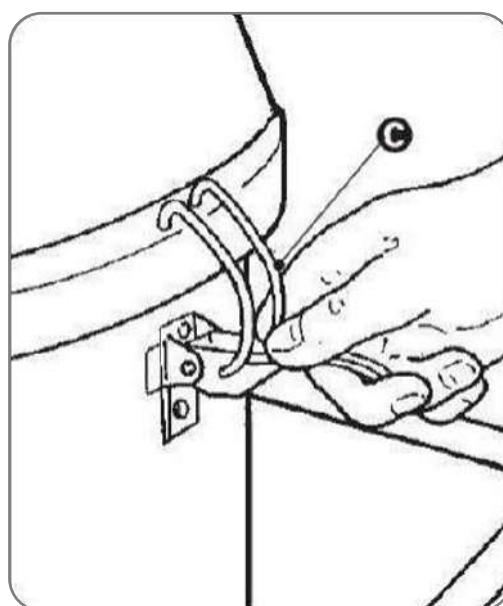
DF075 | DF22 | DF40

For the **filter replacement stellar**, Proceed as follows:

- Turn off the extractor fan.
- Disconnect the vacuum cleaner from the power supply and compressed air supply.
- Disconnect the 2 compressed air pipes "B" from the head.
- Disconnect electrical connector "A."

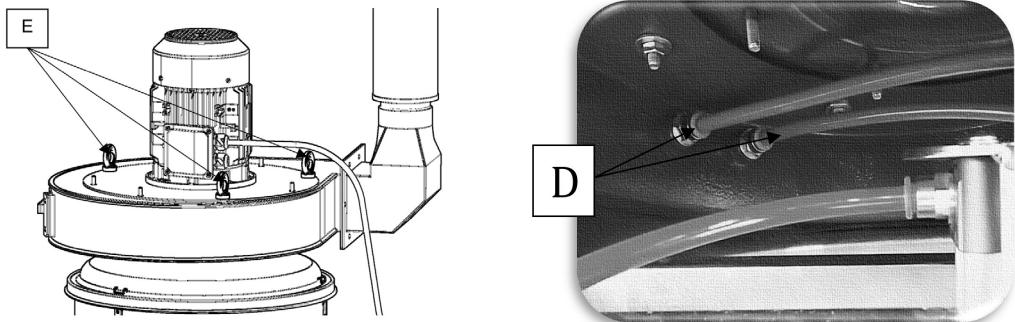


- Unlock the "C" fasteners on the sides of the head base on the filter chamber.





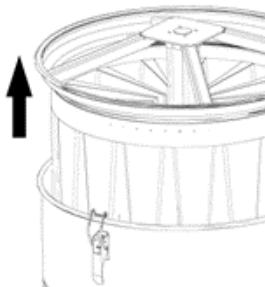
- Use 3 M8 "E" eye bolts (not supplied) and screw them onto the studs on the upper flange of the fan to lift the head of the extractor slightly in order to disconnect the 2 compressed air pipes "D."
- Using 3 M8 "E" eye bolts, lift the extractor head completely.



⚠️ WARNING

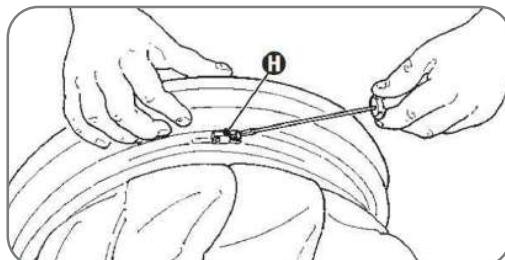
Use lifting straps that are suitable for the total weight of the motor base.

- Remove the filter (complete with support and piston) and place it gently on a workbench.
- Loosen the fastening clamp "H," remove the filter from its support, and use scissors to cut the lower straps

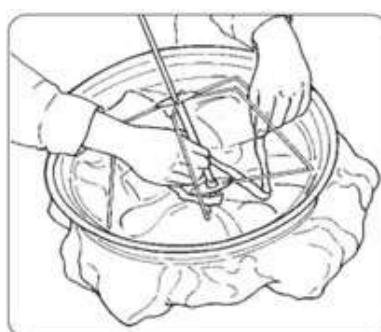


that secure it to the shaking cage.

- Remove the filter, place it inside a plastic bag, close it, and dispose of it in accordance with current laws for



the type of material vacuumed



For reinstall the new filter, proceed in reverse order to that described above.



5.4. IF SOMETHING DOESN'T WORK

ANOMALY FOUND	POSSIBLE CAUSE	RECOMMENDED REMEDY
The vacuum cleaner does not start	Lack of power supply	<ul style="list-style-type: none">Check that there is power in the power outlet;Check the integrity of the plug and power cord;Contact DEPURECO technical support.
Dust escaping from the vacuum cleaner	Perforated filter	Replace the filter
	Filter not suitable for the type of material to be vacuumed	Fit the filter suitable for the type of material to be vacuumed
Excessively noisy engine	Faulty pump	Contact DEPURECO technical support

5.5. SCRAPPING

WARNING

In case of scrapping, to avoid damage to the environment, all components of the vacuum cleaner, must be disposed of responsibly in appropriate landfills in accordance with national regulations. The parts of the vacuum cleaner made of plastic, aluminum, and steel can be recycled by taking them to the appropriate centers.

The crossed-out wheelie bin symbol on the label affixed to the appliance indicates that this product complies with the regulations on waste electrical and electronic equipment. Abandoning the appliance in the environment or disposing of it illegally is punishable by law.

RAEE REGISTER ENTRY NO. IT18090000010711





MAINTENANCE LOG

MODEL:

MATRICOLA:

DELIVERY DATE:

ENTERPRISE:

ADDRESS:

N.

CITY:

ZIP CODE:

BUSINESS SECTOR:

PHONE:

RESPONSIBLE:

TIMBERS:

Depureco Industrial Vacuums Srl

Company subject to management and coordination COFISE spa

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C.F- and P.I. 02258610357 - **Capital stock:** € 25,000 i.v.
Turin Business Register - **R.E.A.** TO-1149668
Registration **WEEE** No. IT18090000010711



INTERVENTION 1:

DATE:

TECHNICAL ASSISTANCE:

TYPE OF INTERVENTION:

INTERVENTION 2:

DATE:

TECHNICAL ASSISTANCE:

TYPE OF INTERVENTION:

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INTERVENTION 3:

DATE:

TECHNICAL ASSISTANCE:

TYPE OF INTERVENTION:

INTERVENTION 4:

DATE:

TECHNICAL ASSISTANCE:

TYPE OF INTERVENTION:

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Company subject to management and coordination COFISE spa

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