

DELFIN SRL - Società Unipersonale

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Sede Legale C.so Venezia, 63
10147 TORINO
C.F./P.IVA 06998930017

Equipment classification: Industrial vacuum cleaners

Machine complying with the article 500 of NFPA 70 (NEC) intended for dust vacuuming in potentially explosive atmospheres, classified Class II Division 2 Group F and G. Dust Tight appliance.



MTL300BLC2D2DB

CLASS II - DIVISION 2 - GROUPS F,G



*Operator's and maintenance manual
Original and official manual
This vacuum is for commercial use
Rev.06/08/2020*

Read this manual carefully before using the vacuum cleaner

**AZIENDA CON SISTEMA
DI GESTIONE QUALITÀ
CERTIFICATO DA DNV
= ISO 9001 =**



IMPORTANT SAFETY INSTRUCTIONS!

When using an electrical appliance, basic precautions should always be followed, including the following:

- 1) READ ALL INSTRUCTIONS BEFORE USING THE VACUUMS*
- 2) WARNING – To reduce the risk of fire, electric shock, or injury:
 - a) Do not leave appliance when plugged in. Unplug from outlet when not in use and before servicing.*
 - b) Do not use outdoors or on wet surfaces*
 - c) Use only as described in this manual. Use only manufacturer's recommended attachments.*
 - d) Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.*
 - e) Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.*
 - f) Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.*
 - g) Do not handle plug or appliance with wet hands.*
 - h) Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.*
 - i) Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.*
 - j) Turn off all controls before unplugging.*
 - k) Do not use to pick up flammable or combustible liquids, such as gasoline, or use in areas where they may be present.*
 - l) Connect to a properly grounded outlet only. See Grounding Instructions (2.2.1).*
 - m) Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.*
 - n) Do not use without dust bag and/or filters in place.**

SAVE THESE INSTRUCTIONS!

The manual must be kept with the vacuum cleaner in case of resale!



CONSIGNES DE SÉCURITÉ IMPORTANTES!

Lors de l'utilisation d'un appareil électrique, ces précautions de base doivent être constamment suivies :

1) LIRE TOUTES LES INSTRUCTIONS AVANT UTILISATION DE CET APPAREIL

2) AVERTISSEMENT - Pour réduire le risque d'incendie, d'électrocution ou de blessure :

a) Ne laissez pas l'appareil branché. Débranchez-le de la prise de courant lorsqu'il n'est pas utilisé et avant d'effectuer l'entretien.

b) Ne pas utiliser à l'extérieur ou sur des surfaces humides "

c) Utilisez uniquement cette machine comme décrit dans ce manuel. Utilisez uniquement les accessoires recommandés par le fabricant.

d) Ne pas utiliser la machine lorsque le câble électrique ou une prise est endommagé. Si l'appareil ne fonctionne pas correctement, qu'il est tombé, a été endommagé, laissé à l'extérieur ou est tombé dans l'eau, adressez-vous à notre service d'assistance.

e) Ne tirez pas et ne portez pas la machine par le câble électrique, n'utilisez pas le câble électrique comme poignée, ne fermez une porte si le câble électrique bloque l'embrasure de la porte, ne tirez pas le câble lorsqu'il est au contact d'arêtes vives ou de coins. Ne faites pas rouler l'appareil sur le câble. Garder le câble éloigné des sources de chaleur.

f) Ne pas débrancher en tirant sur le câble d'alimentation. Pour débrancher, attraper la prise de courant.

g) Ne pas toucher la prise ou débrancher avec les mains mouillées ou humides.

h) N'introduire aucun objet dans l'entrée d'air. Ne pas utiliser avec l'entrée bouchée, elle ne doit pas être encombré de poussières, de cheveux ou autre substances réduisant le débit d'air.

i) Maintenir loin de l'entrée d'air et toutes autres entrées : cheveux, vêtements, doigts ou autres parties du corps.

j) Eteindre l'appareil avant de le débrancher.

k) Ne pas utiliser pour aspirer du matériel inflammable ou du liquide combustible comme de l'essence ou ne pas utiliser l'appareil dans des endroits où ils sont présents.

l) Connecter la prise à une mise à la terre correctement. Voir les instructions d'installation de d'utilisation de la mise à la terre. (2.2.1)

m) Ne pas aspirer le matériel brûlant ou fumant comme les cigarettes, les allumettes ou les cendres.

n) Ne pas utiliser sans sac à poussières et/ou sans filtres mis en place dans l'appareil.

INSTRUCTIONS A CONSERVER!

The manual must be kept with the vacuum cleaner in case of resale!



--- WARNING ---

This vacuum cleaner is supplied without the plug. It is responsibility of the end user to connect a suitable plug certified for the classified hazardous location in which the vacuum cleaner is used.

The plug should be installed by a qualified electrician only. The plug (provided by other) must be connected into an appropriate socket that is properly installed and grounded.

--- ATTENCION ---

Cet aspirateur est fourni sans la fiche. C'est la responsabilité de l'utilisateur final de connecter une fiche appropriée et certifiée pour les endroits classés comme dangereux dans lesquels l'aspirateur est utilisé.

La fiche doit être installée que par un électricien qualifié. La fiche (fournie par d'autres) doit être branchée à une prise appropriée correctement installée et avec la mise à la terre.

This manual provides all the information needed to use and service your vacuum cleaner. Good operation and durability depend on proper maintenance and careful use.

Before leaving the factory, this particular model has undergone stringent tests to ensure utmost reliability. Always check however to make sure the vacuum cleaner has not been damaged during transport in such a way as to affect operation and safety.

This manual should be considered an integral part of the vacuum cleaner and must be kept together with the unit until this is scrapped. In case of loss of or damage to the manual, ask **DELFIN** for a new copy.

The technical details contained in this manual are the property of **DELFIN** and should be deemed of a confidential nature.

Even partial reproduction of the graphic project, the text and the illustrations is legally forbidden.

Some details shown in the illustrations in this manual may be different from those of your vacuum cleaner. Some component parts may have been removed for greater clarity.

For easier reference, this manual is split into sections, identifiable by specific graphic symbols.

This manual must be kept in a place accessible to all the personnel charged with operating and servicing the vacuum cleaner.

In case of any doubts, always immediately phone the **After-Sales Service**.

The competent Law Court for all disputes is that of TURIN (Italy).

The manual must be kept with the vacuum cleaner in case of resale!

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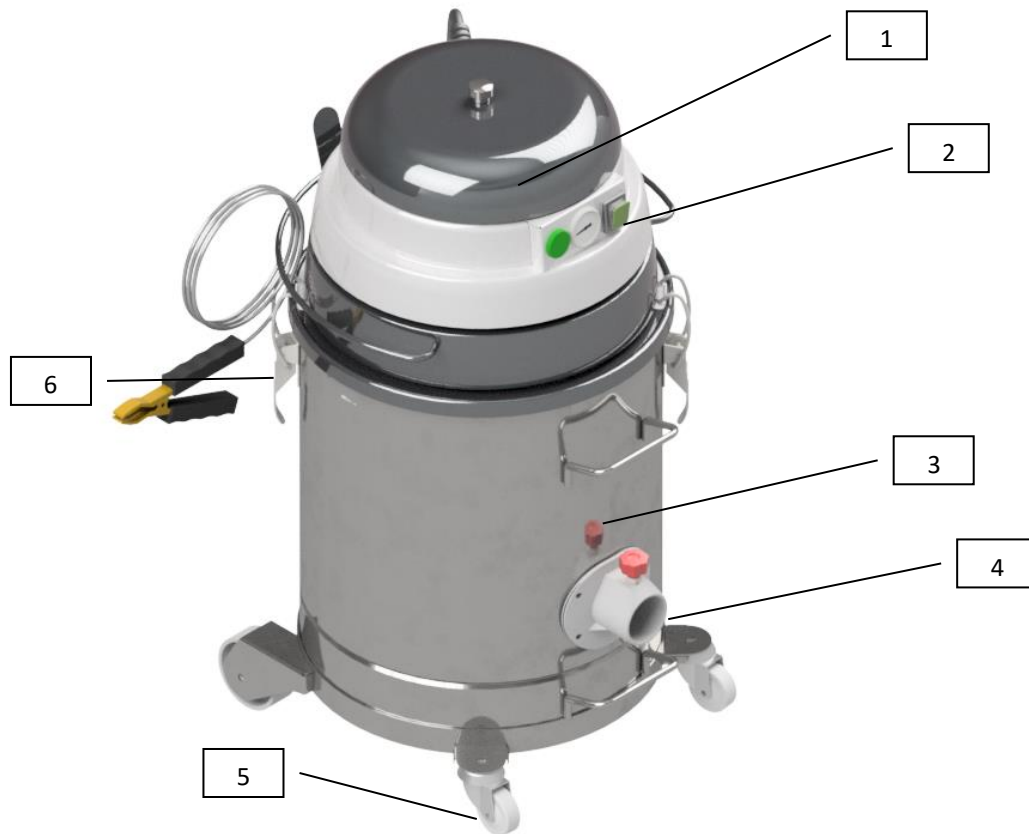
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1.1 Identification of main parts



- 1) Motor head
- 2) ON/OFF Switches
- 3) Filter chamber
- 4) Suction point
- 5) Castors
- 6) Release fastener



1.2 Accessories provided



*FI.0371.0000 - D. 344 H200 ANT. "M" POLYESTER FILTER MTL300BL 8 POCKETS
(ONLY SPARE PART)*

FI.0469.0000 - 10L ANT"M" MTL202/300BL BAG FILTER (ONLY SPARE PART)

Remark: these filters must be checked every six months. In case they are worn it will be necessary to replace them with new ones, to be requested as spare parts to **DELFIN S.r.l.**

DELFIN S.r.l. will accept no responsibility in case of use of **NON-ORIGINAL** filters.

Avertissement: Ces filtres doivent être contrôlés tous les 6 mois. S'ils présentent signes d'usure, on doit les substituer, les demander à **Delfin**

Delfin décline toutes responsabilités pour l'utilisation des filtres **PAS ORIGINAUX** ou utilisés en conditions d'usure

For spare parts, accessories and additional support go to:
www.formlabs.delfinindustrial.com



1.3 Identification details of manufacturer

Delfin S.r.l.

Strada della Merla, 49/a
10036 Settimo Torinese (TO) - Italy
Tel. 0039.011.800.55.00
Fax. 0039.011.800.55.06
www.delfinvacuums.it
delfin@delfinvacuums.it

1.4 Marking plate

ETL Listed for ordinary and Hazardous Locations.

When contacting the manufacturer or dealer, always quote the details shown on the vacuum cleaner plate.

	<small>Strada della Merla 49/a I-10036 Settimo Torinese (TO) - ITALY Ph. +39 011 800 55 00 F. +39 011 800 55 06 delfin@delfinvacuums.it www.delfinvacuums.it</small>		
MOD.	<input type="text" value="MTL300BLC2D2DB"/>	S/N	<input type="text"/>
ELECT. RATING	<input type="text" value="... V, ... Hz (or letter), ... A, ... kW/HP"/>	YEAR	<input type="text"/>
AMBIENT TEMP. RANGE	<input type="text" value="0°C ≤ T ≤ +40°C"/>	FILTER	<input type="text"/>
OPERATING TEMP.	<input type="text" value="T3C, T160°C"/>		<input type="text"/>
MARKING	<input type="text" value="CLASS II – DIVISION 2 – GROUPS F,G"/>		
www.delfinvacuums.it		Made in Italy	



1.5 Cautionary markings

WARNING!

Do not vacuum sources of ignition.

ATTENTION!

Ne pas aspirer de sources d'ignition.

WARNING!

Shake the filter only when the exhauster is off.

ATTENTION!

Secouer seulement après avoir débranché l'aspirateur.

WARNING!

To reduce the risk of electric shock – do not use outdoors or on wet surface.

ATTENTION!

Pour réduire les risques de secousses électriques – ne pas utiliser à l'extérieur ou sur des surfaces mouillées.

WARNING!

To reduce the risk of electric shock – do not use on wet surfaces. Do not expose to rain. Store indoors.

ATTENTION!

Pour réduire les risques de secousses électriques – ne pas utiliser sur des surfaces humides. Ne pas exposer à la pluie. Stocker dans un endroit à l'abri de l'eau et de l'humidité.



WARNING!

To reduce the risk of electric shock – unplug before cleaning or servicing.

ATTENTION!

Pour réduire les risques de secousses électriques – débrancher l'appareil avant son nettoyage ou son entretien.

WARNING!

Unless these messages are heeded, operator injuries could occur.

ATTENTION!

Si ces messages ne sont pas observés, l'opérateur s'expose à des dangers.

WARNING!

Unless these messages are heeded, vacuum cleaner damage could occur.

ATTENTION!

Si ces messages ne sont pas observés, l'aspirateur pourrait subir des dommages

WARNING!

During maintenance operations it will be necessary to affix a warning sign on the vacuum with the following indication: "MAINTENANCE, DO NOT START THE MACHINE".

ATTENTION!

Durant les interventions de maintenance, mettre sur l'aspirateur un panneau indiquant " MACHINE EN MAINTENANCE, NE PAS METTRE EN MARCHE ".

WARNING!

Hand crushing hazard!

ATTENTION!

Danger d'écrasement des mains!



WARNING!

Wear individual protection devices.

ATTENTION!

Porter les dispositifs de protection individuelle.

WARNING!

Collection container release and withdrawal must only be executed in non-classified atmosphere, which means in an area with non potentially explosive atmosphere.

ATTENTION!

L'extraction et le videment de la cuve doivent être exécutés exclusivement dans une area avec atmosphère non classifiée, c'est à dire une atmosphère non explosible.

WARNING!

Make sure all the safety messages are legible.

Clean these with a cloth, soap and water. Do not use solvents, diesel fuel or petrol.

Replace the damaged plates with new ones supplied by DELFIN.

If a plate is affixed to a replaced part, make sure a new plate is affixed to the new part.

ATTENTION!

Veillez à ce que tous les messages de sécurité soient lisibles.

Les nettoyer en utilisant un chiffon, de l'eau et du savon. Ne pas utiliser de solvants, naphta ou essence.

Remplacer les plaques abîmées, s'adresser à DELFIN pour obtenir de nouvelles plaques.

Si une plaque se trouve sur une pièce qui est remplacée, veillez à ce qu'une nouvelle plaque soit appliquée sur la pièce neuve.

WARNING!

The following indications are, by themselves, not enough to fully protect against all the hazards that could arise during vacuum cleaner operation. These will have to be integrated with common sense and the experience of the operator, both of



which are crucial factors for preventing accidents. Each section of this manual lists further specific safety warnings for the various operations. Maintenance jobs must always be performed with the power plug detached from the power point.

ATTENTION!

Les indications ci-après ne peuvent totalement préserver de tous les dangers auxquels on s'expose en travaillant sur l'aspirateur; elles devront être complétées par le bon sens et l'expérience de l'opérateur, seules mesures indispensables pour la prévention des accidents.

Des prescriptions supplémentaires de sécurité, spécifiques pour les différentes opérations, sont énumérées dans chaque chapitre.

Toute intervention de maintenance doit être exécutée avec la fiche d'alimentation débranchée de la prise de courant.

WARNING!

Risk of crushing upper limbs while fitting and locking the material container on the vacuum cleaner.

Never place hands between the material container and vacuum cleaner while locking.

Do not place hands on sides of container near the guide pins while locking.

Perform the container locking operation by means of the levers located on the side, USING BOTH HANDS!

ATTENTION!

Danger d'écrasement des membres supérieurs pendant la phase d'insertion et de blocage de la cuve de collecte des déchets sur l'aspirateur.

Ne jamais introduire les mains entre la cuve des déchets et l'aspirateur pendant la phase de blocage.

Ne jamais introduire les mains sur les côtés de la cuve, à proximité des goujons de guidage, pendant la phase de blocage.

Pour bloquer la cuve, agir sur les leviers situés sur les côtés en utilisant LES DEUX MAINS!

WARNING!

The operator using the vacuum must always wear anti-static cloths and antistatic shoes.

The working environment and the floor must comply with antistatic standards.

ATTENTION!



*L'opérateur doit être habillé avec de vêtements et chaussures antistatique.
Le pavement et l'ambient où on va utiliser l'aspirateur doivent être antistatique.*

IMPORTANT!

Electrostatic Clamp are not intended to be used for electrical grounding, but only to discharge the potential electrostatic charge.

IMPORTANT!

Le serrage électrostatique n'est pas fait pour être utilisé comme mise à la terre électrique, mais seulement pour décharger la charge électrique potentielle.

CAUTION!

To reduce the risk of ignition of hazardous atmospheres, disconnect the equipment from the supply circuit before opening. Keep assembly tightly closed when in operation.

ATTENTION!

Pour réduire les risques d'inflammation dans les zones à danger, ne pas débrancher quand le circuit est en fonctionnement à moins que la zone soit assurée sans risques de concentration d'inflammation.

WARNING!

EXPLOSION HAZARD.

DO NOT DISCONNECT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS.

ATTENTION!

RISQUE D'EXPLOSION.

NE PAS DEBRANCHER PENDANT QUE LE CIRCUITS ELECTRIQUE EST EN FONCTIONNEMENT AU MOINS QUE LA ZONE SOIT ASSUREE SANS RISQUES DE CONCENTRATION D'INFLAMMATION.

WARNING!

EXPLOSION HAZARD.

DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED.



ATTENTION!

RISQUE D'EXPLOSION.

NE PAS BRANCHER OU DEBRANCHER QUAND APPAREIL SOUS TENSION.



1.6 Intended uses

This particular model has been designed, constructed and equipped with safety devices for solid dust and debris vacuuming applications only. The machine is provided with appropriate specific anti-static filters to operate in explosive atmosphere areas (ETL LISTED).

WARNING!

Always use specific filters for the type of dust or materials to be vacuumed.

ATTENTION!

Utiliser toujours les filtres dédiés au type de poussières et de déchets à aspirer.

Any other use is considered *IMPROPER*.

The vacuum cleaner is in any case intended for professional industrial use.

1.7 Allowed environmental conditions

To ensure the correct operation of the vacuum cleaner, this must be positioned protected against atmospheric agents (rain, hail, snow, fog, dusts in suspension, etc.) with an environmental running temperature between 0°C and +40°C and relative humidity not above 70%.

The work environment must be clean, well-enough lit.

1.8 Noise level

The phonometric test results on this specific model correspond to the following acoustic pressure values (at 1 meter distance from the vacuum. and at 1,60 mt. height, where there is the most noisy part of the vacuum):

74 dB (A)

Hand-arm vibrations given by the vacuum are lower than 2,5 m/s²

1.9 Storage

Remove the filter and clean it, empty the container and store the vacuum cleaner in a place protected against atmospheric agents with a temperature between 0°C and +40°C. Cover with a nylon sheet to prevent accumulation of dust.

1.10 Scrapping

In case of scrapping, all the component parts of the vacuum cleaner will have to be disposed of through adequate disposal channels in accordance with applicable legislation.

Before scrapping, all plastic and rubber parts will have to be separated from the electrical material.

Parts made of plastic, aluminium and steel only may be recycled if collected by special centres.



1.11 Technical details

MTL300BLC2D2

60 Hz

<i>Power</i>	<i>kW</i>	1,1
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<i>Voltage</i>	<i>Volts</i>	115
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<i>Max. vacuums rate</i>	<i>mm H₂O</i>	2.285
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<i>Max. air flow rate</i>	<i>m³/h</i> <i>CFM</i>	200 117,7
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<i>Noise level</i>	<i>dB (A)</i>	74
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<i>Filter type</i>	Polyester ANTISTATIC "C"	
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<i>Filter surface</i>	<i>cm²</i> <i>SQ. INCHES</i>	4.000 620
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<i>Capacity</i>	<i>lt</i> <i>GALONS</i>	40 10,56
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<i>Suction inlet Ø</i>	<i>mm</i> <i>INCHES</i>	50 1,97
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<i>Dimensions</i>	<i>cm.</i> <i>INCHES</i>	42x44x78 16,5 X 17,3 X 30,7
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HAZARDOUS LOCATIONS
INFORMATION

CLASS II - DIVISION 2 - GROUPS F,G



1.12 Warranty

DELFIN guarantees this vacuum cleaner model for a period of 24 months from the date of purchase indicated on the tax document at the time of delivery of the vacuum cleaner by the seller.

The warranty shall be invalidated in the event of the vacuum cleaner having been repaired by unauthorised third parties or of equipment or accessories being used that have not been supplied by **DELFIN** or which have not been recommended or approved by **DELFIN** or whose serial number has been removed or altered during the warranty period.

DELFIN undertakes to repair or replace, free of charge, those parts which, during the warranty period show manufacturing faults. Repairs shall be made in the **DELFIN** facilities only or in a **Technical Assistance Centre** indicated by us and machines shall be sent to us carriage free (transport costs to be paid by the user, unless otherwise agreed).

The warranty does not cover any cleaning of working parts.

Faults not directly attributable to materials or manufacture shall be examined only in our facility or in a **Technical Assistance Centre** indicated by us. If claims appear unjustified, all the costs relating to repair and/or replacement of parts shall be charged to the buyer.

The purchase tax document shall be shown to the technical personnel making the repairs and must accompany the vacuum cleaner dispatched for repair.

The warranty does not cover: accidental damage, caused by transport or carelessness or inadequate treatment, or improper use not in compliance with the instructions in the instruction manual, or in any case by occurrences not dependent on normal operation or use of the vacuum cleaner. **DELFIN** declines all responsibility for any damage to persons or things caused by bad or improper use of the vacuum cleaner.

All disputes shall be referred to the Law Court of Turin (Italy).

The manufacturer declines all liability in the following cases:

- *Failure to send the warranty Certificate*
- *Failure to follow the instructions*
- *Use of non-original spare parts*
- *Failure to service the machine properly*



2.1 Safety details

The person in charge of safety shall be responsible for informing workers about the risks associated with vacuum cleaner operation.

The obligation also exists of training workers so they are able to protect themselves and others.

Failure to observe basic safety regulations and Warnings could cause accidents during vacuum cleaner operation, maintenance and repair. Accidents can often be avoided by recognising potentially dangerous situations before these occur. Operators should be aware of potential hazards and be trained and skilled enough. They should also have the tools necessary to perform these duties properly.

DELFIN shall under no circumstances be deemed liable for accidents or damage caused by use of the vacuum cleaner by personnel not properly trained or who use it in an improper manner, as well as by even partial failure to comply with the safety regulations and intervention procedures indicated in this manual.

The safety Warnings and warning notices are indicated in this manual and on the product.

Unless these hazard messages are heeded, the operator could become involved in accidents with serious consequences for him/herself and for other people.

The safety messages are highlighted by the following symbols:

WARNING!

Unless these messages are heeded, operator injuries could occur.

ATTENTION!

Si ces messages ne sont pas observés, l'opérateur s'expose à des dangers.

WARNING!

Unless these messages are heeded, vacuum cleaner damage could occur.

ATTENTION!

Si ces messages ne sont pas observés, l'aspirateur pourrait subir des dommages.

DELFIN cannot foresee all possible circumstances capable of representing a potential hazard. The warnings in this manual and on the products should not therefore be deemed exhaustive. In the event of tools, procedures, work or machining methods being used that are not explicitly recommended by **DELFIN**, make sure no hazards exist for operators and others. **Only ever use original DELFIN spare parts.**

DELFIN declines all liability in the event of non-original spare parts being used.

Utiliser exclusivement des pièces de rechange DELFIN.

DELFIN décline toute responsabilité quant à l'emploi de pièces de rechange non originales.



2.2 Safety warnings

WARNING!

The following indications are, by themselves, not enough to fully protect against all the hazards that could arise during vacuum cleaner operation. These will have to be integrated with common sense and the experience of the operator, both of which are crucial factors for preventing accidents. Each section of this manual lists further specific safety warnings for the various operations. Maintenance jobs must always be performed with the power plug detached from the power point.

ATTENTION!

Les indications ci-après ne peuvent totalement préserver de tous les dangers auxquels on s'expose en travaillant sur l'aspirateur; elles devront être complétées par le bon sens et l'expérience de l'opérateur, seules mesures indispensables pour la prévention des accidents. Des prescriptions supplémentaires de sécurité, spécifiques pour les différentes opérations, sont énumérées dans chaque chapitre. Toute intervention de maintenance doit être exécutée avec la fiche d'alimentation débranchée de la prise de courant.

In compliance with the applicable laws and regulations in force, the employer must ensure that the workers and staff using the equipment are properly trained and informed.

Before operating this equipment, carefully read the herein manual as a preliminary personal training step. Untrained or unauthorized people must be forbidden to operate this machine.

Do not manumit the vacuum/pressure relief valve.

All maintenance operations must be executed in non-classified atmosphere.

Do not vacuum incandescent or burning material.

The opening of the dust collection container must be executed in non-classified atmosphere area, after having disconnected and unplugged the machine and only after 10 minutes from unplugging.

It is prohibited to vacuum toxic substances unless the machine is provided with the necessary specific filters for the type of dust to be vacuumed. Such specific filters must be expressly required by the Customer for supply.

Equipment should be used only by trained staff in accordance with all applicable national and local codes (NFPA70, C.E.C., NFPA 652, etc.).

Do not vacuum flammable or explosive liquids (fuels, solvents etc.).

Do not vacuum corrosive substances unless the machine is equipped with suitable containers (*AISI 304 Stainless steel*).



If the filters are correctly fitted, the machine will not release any collected substance into the environment.

In case the machine is used to vacuum toxic-harmful substances, the emptying of the collection container as well as the filter cleaning operations must be executed using the appropriate safety devices required to protect the operator from the collected substances.

Do not lay any object or material on the horizontal guards.

The machine case containing mobile parts must not be removed by the operator.

Mind other people, especially children, when operating the vacuum.

Handle the machine carefully, specially on slopes or ramps.

Do not turnaround the machine on slopes.

Set on the wheel brake to ensure that the machine position is stable.

Cleaning, maintenance and part replacement operations must always be executed after having switched off and unplugged the machine and must be done in safe areas with damp cloth.

Repair operations must be executed by qualified personnel only.

Be careful not to damage or squash the supply cable (cord) when operating the machine.

Check the supply cable on regular basis. Do not use the machine if the cable is damaged.

In case of cable, tap or connector replacement, ensure protection against water and check mechanical strength.

Do not drag the machine by pulling the supply cable and the suction hose.

The final user must provide for the collected substances waste disposal in compliance with the applicable laws and regulations in force.

Machine overhaul is recommended after 10 years of life. The overhaul should be performed by **DELFIN Srl**, the manufacturer.

The machine is delivered to the final user with the following documentation: instructions manual, spare part list, declaration of conformity, warranty certificate, homologation certificate, electrical and pneumatic technical files.

The manufacturer will not be liable for any damage which may occur in connection with the use or service of vacuum supplied in case it is utilized with tools or accessories that have not been provided by **DELFIN Srl**. Without prejudice for the above, it is recommended to keep the machine construction complying with the safety standards prescribed by the **NFPA 70 (NEC) and C.E.C.**

Keep the vacuum clean and free of any contamination material such as dust, debris or oil. Moreover, keep it away from tools or other objects which may affect the machine efficiency and cause damage and/or injury.

Do not use flammable or toxic solvents, such as gasoline, benzene, ether and alcohol for cleaning.



Avoid long-time exposure to solvents and inhalation of solvent vapours. Do not use solvents in presence of heat or fire sources.

Never use the vacuum without filter.

Do not suck lighted cigarettes, cigarette stubs or incandescent materials. Do not collect gasoline, fuel or other flammable liquids.

Do not vacuum sources of ignition.

Ensure that all shields and protections are put in place and that all safety devices are available and efficient.

Do not wear loose clothes or accessories such as ties, scarves or torn clothes which may be caught or sucked by the vacuum.

Do not open the collection container when the vacuum is working.

The "*Operating and maintenance manual*" must always be readily available for consultation, in order to be able to ascertain the correct working procedures in case of doubts. Should this manual get lost or damaged, please ask *DELFIN Srl* for another copy.

Structural damages, modifications, improper changes or repair may affect the vacuum safety and therefore annul the herein certification. Any modification required should be authorized and executed by *DELFIN* engineers only.

During maintenance operations it will be necessary to affix a warning sign on the vacuum with the following indication: "MAINTENANCE, DO NOT START THE MACHINE".

Durant les interventions de maintenance, mettre sur l'aspirateur un panneau indiquant "MACHINE EN MAINTENANCE, NE PAS METTRE EN MARCHE".

Do not get on the vacuum.

Do not touch wires, switches and switch-buttons with wet hands.

Before plugging the vacuum, ensure that power supply voltage and frequency meet the specifications required and reported on the machine plate.

Connect the machine to an electrical system outlet with efficient earth.

In case it is necessary to use an extension, check that the extension is in perfect conditions, ***NRTL LISTED*** marked and that the extension cable cross section area is suitable for the vacuum electrical input.

To recover the vacuum original working conditions after maintenance, the operators must check that the machine protections, particularly safety devices and guards, have been put back in place ensuring safety working conditions.

The vacuum must be operated by adults only.



Before executing vacuuming operations, always set on the vacuum wheel brake provided to ensure that the vacuum position is stable.

The supply cable tap must be correctly plug in the current outlet in NON CLASSIFIED atmosphere, or rather in a safety place.

2.2.1 Grounding Instruction

This vacuum must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING!

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

ATTENTION!

Un branchement non conforme du conducteur de mise à la terre peut comporter le risque de décharges électriques. Il est conseillé de faire appel à un électricien qualifié ou au personnel d'assistance en cas de doutes sur la mise à la terre. Il est interdit de modifier le plug fourni avec l'appareil – s'il n'est pas compatible avec la prise, il sera nécessaire de faire installer une prise adaptée par un électricien qualifié.

Connect the grounding clamp with a conductive surface connected with earth, as shows in the picture below:





IMPORTANT!

Electrostatic Clamp are not intended to be used for electrical grounding, but only to discharge the potential electrostatic charge.

IMPORTANT!

Le serrage électrostatique n'est pas fait pour être utilisé comme mise à la terre électrique, mais seulement pour décharger la charge électrique potentielle.



2.3 Safety plates and symbols

Plates are affixed to the vacuum cleaner showing safety symbols and/or messages.

WARNING!

Make sure all the safety messages are legible.

Clean these with a cloth, soap and water. Do not use solvents, diesel fuel or petrol.

Replace the damaged plates with new ones supplied by DELFIN.

If a plate is affixed to a replaced part, make sure a new plate is affixed to the new part.

ATTENTION!

Veillez à ce que tous les messages de sécurité soient lisibles.

Les nettoyer en utilisant un chiffon, de l'eau et du savon. Ne pas utiliser de solvants, naphta ou essence.

Remplacer les plaques abîmées, s'adresser à DELFIN pour obtenir de nouvelles plaques.

Si une plaque se trouve sur une pièce qui est remplacée, veillez à ce qu'une nouvelle plaque soit appliquée sur la pièce neuve.

WARNING!

Read the operator's and maintenance manual carefully before using the cleaner or doing any maintenance jobs.

ATTENTION!

Lire attentivement le manuel d'utilisation et de maintenance avant d'utiliser l'aspirateur ou d'accomplir des interventions de maintenance.

WARNING!

Do not vacuum incandescent material.

ATTENTION!

Ne pas aspirer de matériaux incandescents.



WARNING!

Risk of crushing upper limbs while fitting and locking the material container on the vacuum cleaner.

Never place hands between the material container and vacuum cleaner while locking.

Do not place hands on sides of container near the guide pins while locking.

Perform the container locking operation by means of the levers located on the side, USING BOTH HANDS!

ATTENTION!

Danger d'écrasement des membres supérieurs pendant la phase d'insertion et de blocage de la cuve de collecte des déchets sur l'aspirateur.

Ne jamais introduire les mains entre la cuve des déchets et l'aspirateur pendant la phase de blocage.

Ne jamais introduire les mains sur les côtés de la cuve, à proximité des goujons de guidage, pendant la phase de blocage.

Pour bloquer la cuve, agir sur les leviers situés sur les côtés en utilisant LES DEUX MAINS!

WARNING!

Do not vacuum sources of ignition.

ATTENTION!

Ne pas aspirer de sources d'ignition.



CLASS II - DIVISION 2 - GROUPS F,G

M	<p>CAUTION: this machine contains harmful vacuumed dust. Emptying operations, including the removal of the collection container after due waiting time must only be executed by qualified operators wearing the appropriate safety devices.</p> <p>Do not use the vacuum without filtering systems.</p>	M
----------	---	----------

This plate is applied to the vacuum when the machine is equipped with a C CLASS anti-static filter (max. efficiency: 1 micron)

M	<p>ATTENTION: l'appareil contient des déchets aspirés avec de substances toxiques et nocives. Les opérations d'extraction et videment de la cuve doit être exécuté exclusivement par le personnel spécialisé.</p> <p>Ne jamais utiliser l'aspirateur sans filtre.</p>	M
----------	---	----------

Cette plaquette est appliquée sur l'aspirateur quand l'appareil est équipé avec un filtre antistatique de classe "C". (Max. efficacité : 1 micron)

H	<p>CAUTION: this machine contains harmful vacuumed dust. Emptying operations, including the removal of the collection container after due waiting time must only be executed by qualified operators wearing the appropriate safety devices.</p> <p>Do not use the vacuum without filtering systems.</p>	H
----------	---	----------

This plate is applied to the vacuum when the machine is equipped with a C CLASS anti-static filter and the absolute (HEPA) filter (99,995%. efficiency, on 0,18 micron)

H	<p>ATTENTION: l'appareil contient des déchets aspirés avec de substances toxiques et nocives. Les opérations d'extraction et videment de la cuve doit être exécuté exclusivement par le personnel spécialisé.</p> <p>Ne jamais utiliser l'aspirateur sans filtre.</p>	H
----------	---	----------

Cette plaquette est appliquée sur l'aspirateur quand l'appareil est équipé avec un filtre antistatique de classe "C" et un filtre (HEPA) absolu (Efficacité 99,995 sur 0,18 m.)





2.4 Outstanding risks

Careful analysis of risks performed by the manufacturer and stored in the technical file has made it possible to eliminate most of the risks associated with vacuum cleaner operation.

The manufacturer advises carefully following the instructions, procedures and advice contained in this manual as well as applicable safety regulations, including the use of the envisaged protection devices, both those integrated in the cleaner and individual.

Outstanding risks associated with the vacuum cleaner could be:

Risk of improper use in the presence of explosive and flammable substances.

The vacuum cleaner must not be used in environments containing substances in the form of liquids that could vaporise at room temperature and flammable dusts and gas.

Risks of operation in humid environments.

Keep to the limits shown in this manual at chap. 1.6 Allowed environmental conditions.

Risk of erroneous interpretation of the safety pictograms.

Having identified the various outstanding risks, the manufacturer has affixed to the cleaner a number of hazard labels in compliance with regulations relating to the graphic symbols to be used. The user must immediately replace any safety plates that become illegible due to wear or damage.

WARNING!

Removing the safety plates on the vacuum cleaner is strictly forbidden. The manufacturer declines all liability in relation to vacuum cleaner safety in the event of failure to comply with the above indications.

ATTENTION!

*Il est absolument interdit d'enlever les plaques de sécurité présentes sur l'aspirateur.
Le fabricant décline toute responsabilité quant à la sécurité de l'aspirateur en cas d'inobservation de cette interdiction.*



2.5 Applied directives

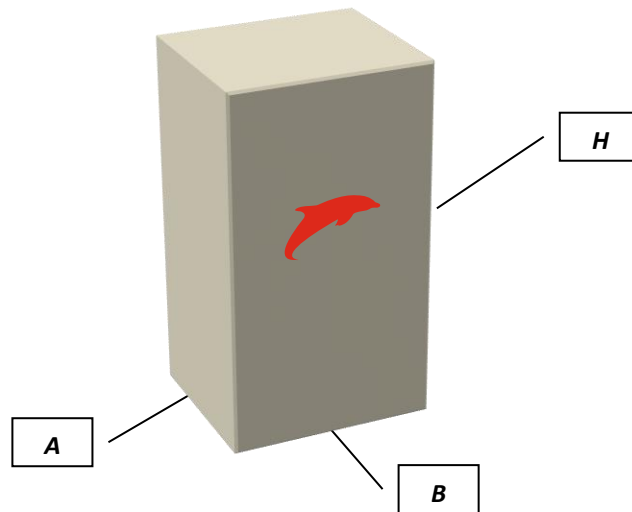
The following directives apply to the vacuum cleaner described in this manual:

- **ORDINARY LOCATIONS:**
 - UL 1017
 - CSA C22.2 N°243-10

- **HAZARDOUS LOCATIONS:**
 - ISA 12.12.01 (2016)
 - CSA C22.2 N°213-16



3.1 Handling



	<i>A</i> (cm) (inches)	<i>B</i> (cm) (inches)	<i>H</i> (cm) (inches)	<i>Weight</i> (package included) (Kg) (lb)
MTL300BLC2D2DB	60 23,6	70 27,6	130 51,2	44 97

The machine is supplied in a strong cardboard box secured with straps.

Transport the package using a fork-lift truck of adequate lifting capacity and make sure it is stable and that weight is properly distributed on the forks.

Before starting to move, make sure the transit area is free and that there are no moving objects on the packaging.

During movement, keep the load low for greater stability and safety.

When starting up the vacuum cleaner, move this by means of the wheels supplied.

The appliance must never be moved using fork-lift trucks or other equipment that lifts it off the floor.

If for any reason the need arises to lift and transport the vacuum cleaner, this operation must be performed under the responsibility of the user. The user is therefore invited to secure the load as he best thinks fit to ensure the operation is performed in total safety.



3.2 Installation

WARNING!

Before installing the vacuum cleaner, carefully make a sight check to pinpoint any damage suffered during transport.

ATTENTION!

Avant d'installer l'aspirateur, vérifier visuellement qu'il n'a subi aucune détérioration durant les phases de transport.

In the event of any component parts being damaged, do not proceed with installation. Notify the manufacturer and reach an agreement on how to proceed.

The vacuum cleaner already features a suction filter.

Fit the accessory required for the type of vacuuming operation on the opposite end of the hose.



Note: No standard accessories (reducers, hoses, nozzles) are included with the vacuum; accessories must be specified and ordered separately.

Contact your dealer for information relating to the different types of *optional accessories* available for this specific vacuum cleaner model.

Fit the supplied pipe on the connector.



--- WARNING ---



This vacuum cleaner is supplied without the plug. It is responsibility of the end user to connect a suitable plug certified for the classified hazardous location in which the vacuum cleaner is used.

The plug should be installed by a qualified electrician only. The plug (provided by other) must be connected into an appropriate socket that is properly installed and grounded.

--- ATTENCION ---

Cet aspirateur est fourni sans la fiche. C'est la responsabilité de l'utilisateur final de connecter une fiche appropriée et certifiée pour les endroits classés comme dangereux dans lesquels l'aspirateur est utilisé.

La fiche doit être installée que par un électricien qualifié. La fiche (fournie par d'autres) doit être branchée à une prise appropriée correctement installée et avec la mise à la terre.

Make sure the power supply corresponds to the voltage and frequency indicated on the vacuum cleaner plate.



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MOD. S/N

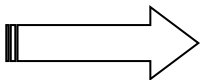
ELECT. RATING YEAR

AMBIENT TEMP. RANGE FILTER

OPERATING TEMP.

MARKING

www.delfinvacuums.it Made in Italy



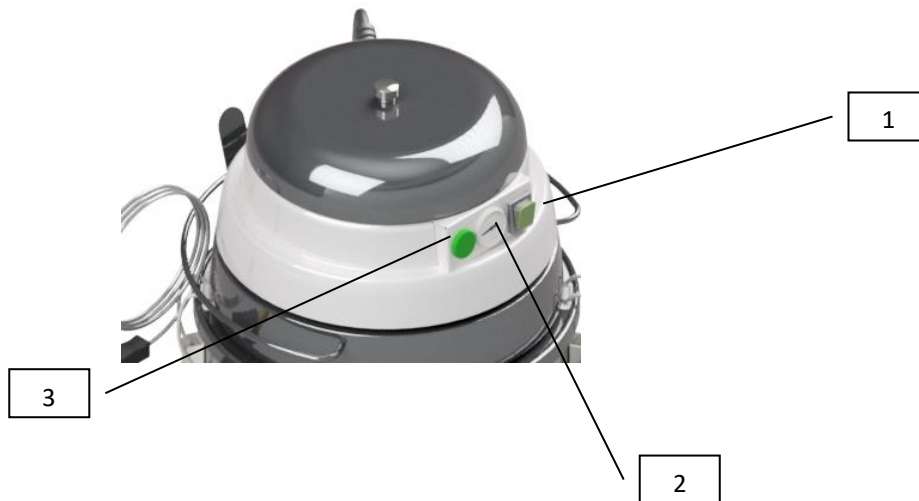
WARNING!
Do not fit the plug in the power socket with wet hands.

ATTENTION!
Ne pas insérer la fiche dans la prise de courant avec les mains mouillées.

In the event of an extension being used, make sure this is in perfect condition, in compliance with **NRTL LISTED** standards and with cable cross section suitable for the power input of the vacuum cleaner.



4.1 Description of controls



- **START/STOP** button
- Vacuum meter
- Power on – light indicator



4.2 Work cycle

WARNING!

Before fitting the plug, make sure the power voltage corresponds to that on the product marking plate.

ATTENTION!

Avant d'insérer la fiche, s'assurer que le voltage de la ligne d'alimentation correspond à celui figurant sur la plaque signalétique.

WARNING!

Operations permitted within Class II Division 2 Group F and G class areas, with potentially explosive atmosphere.

ATTENTION!

Opérations autorisées dans la Class II Division 2 Group F and G avec la présence de atmosphère potentiellement explosive.

WARNING!

The operator using the vacuum must always wear anti-static cloths and antistatic shoes.

The working environment and the floor must comply with antistatic standards.

ATTENTION!

*L'opérateur doit être habillé avec de vêtements et chaussures antistatique.
Le pavement et l'ambient où on va utiliser l'aspirateur doivent être antistatique.*

- Ensure that the supply cable tap is correctly plug in the current outlet having the voltage required and indicated on the vacuum control panel.
- Ensure that the flexible hose is duly fitted and locked in the specific suction plug.
- Ensure that the supply cable (cord) and the eventual extension are in perfect conditions.
- Set on the wheels brake to ensure that the machine is stable.



- Grip one end of the flexible hose complete with selected accessory.
- Press the **Start** button and start vacuuming.
- To stop the vacuum cleaner, press the **Stop** button

WARNING!

Before turning the vacuum on again, make sure the engines have stopped completely.

ATTENTION!

Avant de remettre en marche l'aspirateur, s'assurer que les moteurs sont parfaitement arrêtés.

After finishing work, disconnect the vacuum cleaner from the power socket.

- Once work cycle has been completed, disconnect and unplug the machine.
- Shift the vacuum using the provided handle.



WARNING!

*The vacuum can be shifted manually on flat grounds only.
The vacuum heavy weight may not allow the operator to shift it safely on slopes as it would be difficult to handle and control the machine avoiding dangerous collision which may cause damages and injury.*

ATTENTION!

*L'aspirateur peut être déplacé manuellement seulement sur des terrains plats!
Si l'opérateur déplace l'aspirateur sur des terrains légèrement penchés, il peut risquer d'en perdre les commandes (à cause de son poids consistant) et de causer des dégâts à choses ou personnes (danger de collision).*



4.3 Releasing and removing the removable container

Stop the vacuum motors by turning the main switch to OFF position.

WARNING!

Collection container release and withdrawal must only be executed in non-classified atmosphere, which means in an area with non potentially explosive atmosphere.

ATTENTION!

L'extraction et le videment de la cuve doivent être exécutés exclusivement dans une area avec atmosphère non classifiée, c'est à dire une atmosphère non explosible.

WARNING!

Disconnect the plug from the power socket.

ATTENTION!

Débrancher la fiche de la prise de courant.

- Release the vacuum pipe.
- Release the clamp that lock the container.
- Disconnect the earth connection, lift the motor head and rest it on a flat surface being careful not to damage the power cable.
- Remove the filter





Empty the contents of the container into a special waste disposal container in accordance with laws applicable in the country where the vacuum cleaner is used.

WARNING!

While performing these operations, it is best to wear a dust protection mask.

ATTENTION!

Pendant cette opération, utiliser un masque anti-poussières.

To prevent having to use a dust protection mask and for greater convenience, before starting vacuuming operations, it is best to fit a nylon bag inside the container and to fasten this in place with the special accessory available on request.

WARNING!

Never put your hands between the collection container and the vacuum when positioning and securing the collection container.

Never put your hands on the collection container edges nearby the check pins when executing the aforesaid operation, which must be performed throughout the coupling side levers and using BOTH YOUR HANDS to control them.

ATTENTION!

Ne jamais introduire les mains entre la cuve des déchets et l'aspirateur pendant la phase de blocage.

Danger d'écrasement des membres supérieurs pendant la phase d'insertion et de blocage de la cuve des déchets aspirés.



5.1 Informative notes

Ordinary maintenance and checking operations required to ensure the vacuum efficiency are described in this section.

Any intervention, other than ordinary maintenance operations described herein, which may be necessary to eliminate faults or failure must be expressly authorized by the manufacturer, to whom the user must apply always specifying the vacuum identification data.

In case of problems requiring a broaden repair operation, it is recommended to take the vacuum to the authorized dealer whose qualified personnel, relying on expertise and knowledge of the OEM construction technology, will always be available to timely and properly provide service and assistance.

5.2 General safety warnings

Maintenance operations must only be executed by qualified and trained engineers operating in the specific fields required for this machine, as follows:

- Mechanical maintenance
- Electrical maintenance

The person responsible of safety must verify the professional skills and competence of the aforesaid engineers in-charge of maintenance.

Before authorizing any maintenance operations to start, the person responsible of safety must:

- Clear the workplace from unauthorized people;
- Ensure that all necessary tools are in good conditions and readily available to the maintenance operator;
- Check that lighting is appropriate and, if necessary, provide for supplementary portable 24 Volt lamps;
- Ensure that the maintenance operator is provided with all homologated personal safety devices required to safely execute the scheduled operation/s (gloves, goggles, safety shoes and so on);
- Ensure that the maintenance operator has carefully read the herein instruction manual and perfectly knows the vacuum working system.

Before starting any maintenance operation, the maintenance engineer must:

- Unplug the machine;
- Execute such operation in **NON CLASSIFIED** atmosphere, which means in an area with non potentially explosive atmosphere.

Any operation on the vacuum engine or other electrical components shall only be executed by the electrical maintenance engineer, who must be trained for this task and shall also be authorized by the person responsible of safety.

Always use the specially provided tools for the operation to be executed and check that such tools are in perfect conditions. Using unsuitable or inefficient or defective tools may cause serious damages and injury.



5.3 Maintenance operations

WARNING!

All the operations described here following must be executed after unplugging the machine.

Before starting any maintenance or cleaning operation, wear the appropriate personal safety devices such as goggles, gloves and dust mask suitable to protect the operator from breathing particles of the substance to be vacuumed and to safely perform the work required.

ATTENTION!

Toutes les opérations décrites doivent être effectuées avec la fiche débranchée de la prise de courant.

Avant toute opération de maintenance ou de nettoyage, mettre des vêtements de protection, des lunettes et/ou gants, selon le travail à effectuer.

To ensure the vacuum efficiency, it is recommended to check the machine on regular basis as follows:

Every day

- Check that the collection container is not full; it is recommended to empty the collection container when the collected material fills $\frac{3}{4}$ of its maximum capacity.
- Check the conditions of the suction flexible hose and of the accessories to be used . Any hole, crack or fissure in the flexible hose will reduce suction power and disperse the vacuumed dust into the environment.

Every week

- Clean the vacuum regularly, removing dust deposits. The thickness of the deposited dust must not exceed 2mm.
- Remove any layers of dust on the wheels.

Every 6 months

- Check that the head basement sheath, the filter holding ring sheath and the collection container sheath are hermetic.
- The electrical units (plugs, switches, cables and so on) must have no faults or defects.
- Screws and nuts must always be tightened.
- Clean the deflector inside the suction hose on regular basis to prevent dust accumulation inside the suction unit.
- Remove the side carters protecting the turbine and vacuum any dust deposit within the suction unit.
- Check the filter conditions.
- The filter must not be too breathable.



- There must be no cuts and holes and the sewing must not be worn. Check that the filter holding ring is tightened. In the event any of the aforesaid circumstances occur, replace the filter as indicated in section 5.4.

WARNING!

To ensure the vacuum efficiency and safety, DELFIN S.r.l. recommends an overhaul at the Manufacturer's technical service workshop every 24 months.

ATTENTION!

Pour assurer le bon fonctionnement, la durée de vie et la sécurité de l'aspirateur, le fabricant conseille une révision complète de l'appareil chez DELFIN S.r.l. chaque 24 mois.

WARNING!

In case of dust outflow from the engine, turn off the vacuum immediately and call the authorised service centre applying for assistance.

ATTENTION!

Toutes les autres activités de maintenance ou de réparation doivent être exécutées directement par DELFIN S.r.l. ou par les centres agréés.

WARNING!

Any maintenance and repair operation not included in the above mentioned ones must be executed by the Manufacturers technical service workshop or by DELFIN authorised service centres.

ATTENTION!

En cas de sortie de poussières du moteur de l'aspirateur, arrêtez l'appareil immédiatement et contactez le service assistance technique DELFIN.



5.4 Replacing the filters

To replace the filters, proceed as follows:

- Turn off the vacuum cleaner by turning the main switch to the "OFF" position.
- Disconnect the vacuum cleaner plug from the power socket.

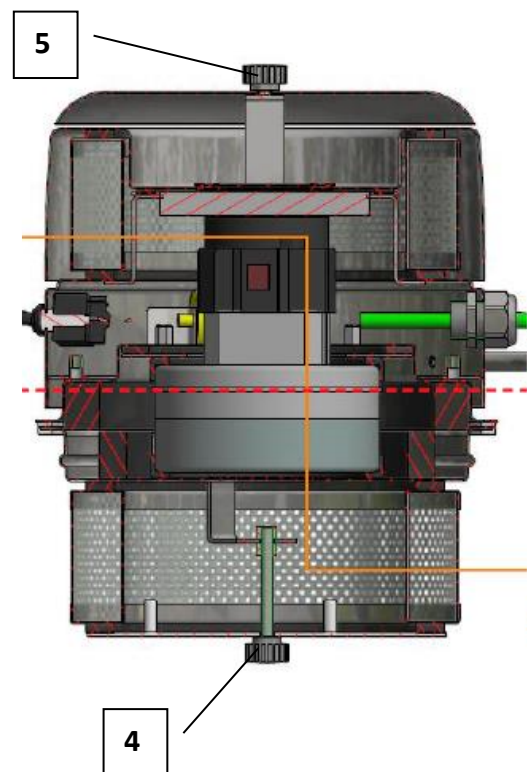
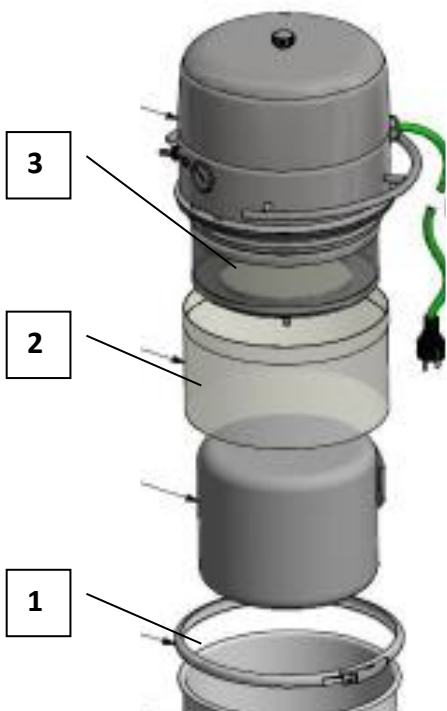
WARNING!

Wear individual protection devices.

ATTENTION!

Porter les dispositifs de protection individuelle.

- Lose the clamp (1) and remove the bag filter (2), then remove the absolute filter (3). To remove the absolute filter unscrew the handwheel (4) and the handwheel (5) and unscrewing the four screws placed on a base plate.



Fit the new filters and put everything back in place.



FOR FI.0371.0000

- Release the retainers that hold the motor head. Lift the motor head and rest this on a flat surface being careful not to damage the power cable.



- Remove the filter





- Loosen the clamp and remove the support ring with seal.



- Remove the knots and take out the pocket filter. Fit the new filter, put everything back together carefully and fit the cap back on.

WARNING!

All the material trapped by the filter and the filter itself must be disposed of through authorised channels in the country where the vacuum cleaner is used.

ATTENTION!

Les déchets du filtre et le filtre même doivent être éliminés selon les normes en vigueur dans le pays où l'aspirateur est employé.



5.5 Troubleshooting

<i>Fault found</i>	<i>Possible fault</i>	<i>Recommended remedy</i>
<i>The cleaner fails to start</i>	No power	Check the power mains supply Check the integrity of the plug and power cable
	Perforated vacuum pipe	Replace the pipe
<i>Dust is leaking out</i>	Perforated filter	Replace the filter
	Filter unsuitable for type of job	Fit a suitable filter for the type of material to be vacuumed
	Pipe perforated or blocked	Check the pipe and, if necessary, replace it
<i>The vacuum cleaner does not work as it should</i>	Container full	Empty container
	Filter blocked	Clean the filter and if necessary change it.
	Seals worn	Check the seals and, if necessary, replace it
	Air leak	Check for any air leaks out of closing fasteners, tightening screws, container or filter chamber
<i>Motor very noisy.</i>	<i>Contact DELFIN after-sales</i>	

WARNING!

For any other problems, contact the DELFIN after-sales service.

ATTENTION!

Pour tout autre problème, contacter le service assistance technique DELFIN.



6.1 Recommended spare parts

<i>Code</i>	<i>Description</i>
<i>FI.0371.0000</i>	D. 344 H200 ANT. "M" POLYESTER FILTER MTL300BL 8 POCKETS
<i>FI.0347.0000</i>	BICO FILTER M E10 D170 H54
<i>FI.0348.0000</i>	BICO FILTER M E10 D310 H79
<i>FI.0350.0000</i>	BICO FILTER M E10 D310 H49
<i>FI.0469.0000</i>	10L ANT"M" MTL202/300BL BAG FILTER
<i>GI.0233.0000</i>	FILTER GASKET D360
<i>SL.3417.7011C</i>	D360 FILTER RING



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