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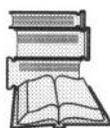
Industrial vacuum cleaners



DG150 SE



Operator's and maintenance manual



Read this manual carefully before using the vacuum cleaner

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.

The subjects dealt with in this manual are those expressly required by "**Machine Directive 2006/42/CE**" and the technical details shown are those provided by the manufacturer at the time of compilation.

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

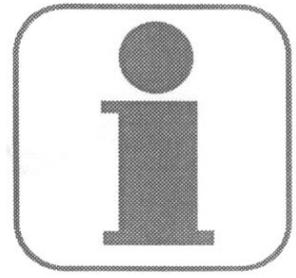
In case of any doubts, always immediately phone the **After-Sales Service**.

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



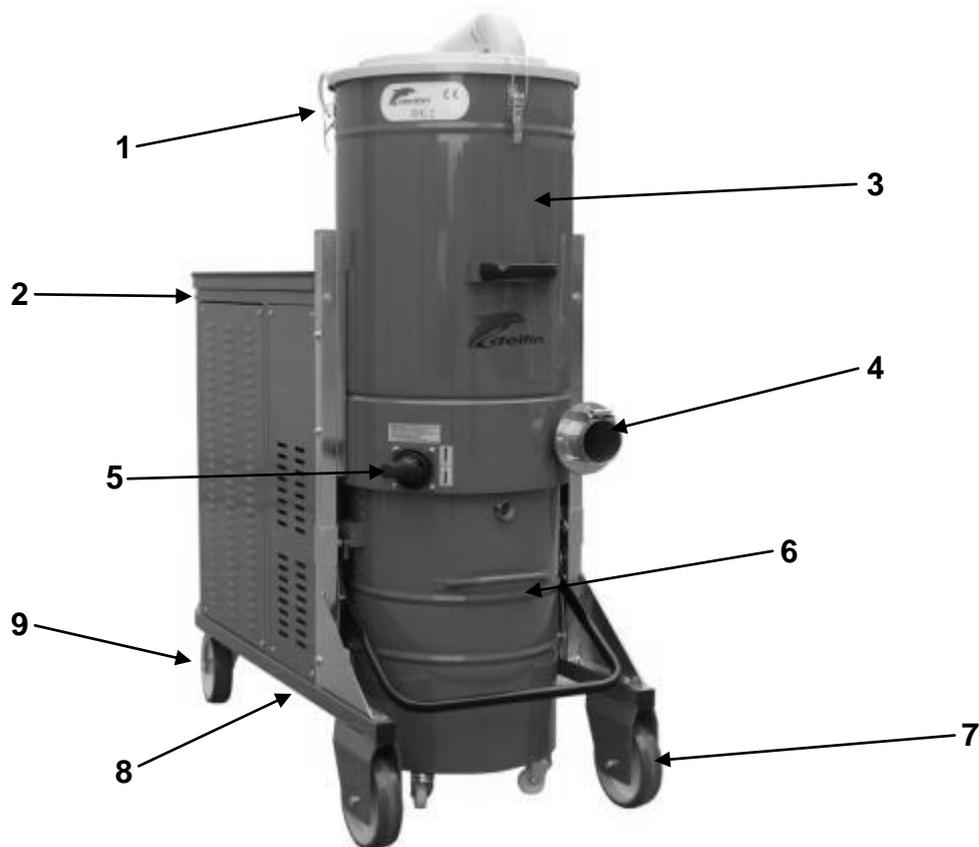
The manual must be kept with the vacuum cleaner in case of resale!

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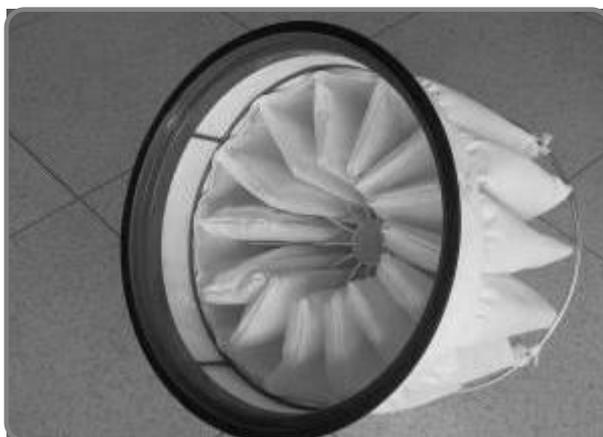
INFORMATION SECTION

1.1 Identification of main parts



- 1) Release fastening
- 2) Push handle
- 3) Filter chamber
- 4) Inlet
- 5) Filter shaker lever
- 6) Removable vacuumed material container
- 7) Fixed castors
- 8) Trolley
- 9) Wheels

1.2 Accessories provided



AR2072 - Ø500 H600 20 pockets "G" polyester filter (ONLY AS A SPARE PART)

Model DG150 SE → **AR3036 - COMPLETE FILTER KIT**

1.2.1 *Optional accessories*

ABSOLUTE FILTER (CODE AA1253)

Model DG150 SE

The absolute filter permits trapping the finest dust particles which have not been trapped by the primary polyester filter. If the vacuum cleaner features this specific filter, its filtering capacity will have to be periodically checked.

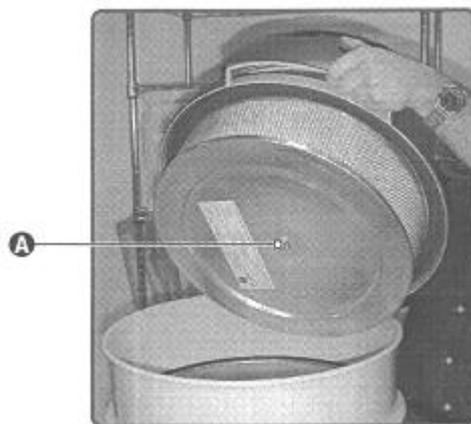


Important!

During these operations, wear individual protection devices such as gloves, protective eyewear and dust mask.

To change the filter, switch off the vacuum cleaner and remove the plug from the power socket, release and remove the upper cap and then loosen nut (A).

Remove the absolute filter, place it in a plastic bag, close this and dispose of it according to applicable laws for the type of vacuumed dust.



Besides the absolute filter, depending on the dust to be vacuumed, the following filters are available:

- **AR3006** - ANTISTATIC FILTER
For electrostatic dusts.
- **AR3009** - NOMEX FILTER
For hot dust up to 240 °C.
- **AR3060** - POLYESTER CAT. M FILTER
For very fine dusts.
The polyester filters are BIA institute certified.

SIEVE GRID ACCESSORY

This accessory separates the liquids from the solids. The solids remain in the top gridded basket, while the liquids deposit on the bottom of the container.

Model DG150 SE

(CODE AA1003)



A container featuring a special liquid draining valve can be ordered separately or else the valve only can be ordered before contacting our technical department to have the valve fitted on the container.

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

In compliance with the Machine Directive on vacuum cleaners, the machine is fitted with CE plates.

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

Str. della MERLA 49/A 10036 SETTIMO T.SE (TO) ITALY	
Tel. 0039 011 800.55.00 - Fax 0039 011 800.55.06	
 manufacturers of industrial vacuums	
CE	
MOD.	<input type="text"/>
S/N	<input type="text"/>
YEAR	<input type="text"/>
50 Hz	<input type="text"/>
60 Hz	<input type="text"/>
FILTER	<input type="text"/>
www.delfinvacuums.it	

1.5 Intended uses

These specific vacuum cleaner models have been designed, built and protected for vacuuming dusts and solid materials only, using special filters.



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

Any other use is considered **IMPROPER**.

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

1.6 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 5°C and 45°C and relative humidity not above 70%.

The work environment must be clean, well-enough lit and devoid of explosive atmosphere.

1.7 Noise level

Noise level readings were taken in accordance with the provisions of **Machine Directive 2006/42/CE** standards.

Sound tests performed on this specific vacuum cleaner model have been taken from a distance of 1 meter and from a height of 1,60 meters, showing an acoustic pressure no higher than:

78 dB (A)

The vibrations transmitted by the machine are lower than 2,5 m²/s.



Important! Pursuant to articles L.D. 81/08, workers exposed to sound pressure levels above 85 Db (A) must be protected by special individual protection devices.



It is therefore necessary, if such working conditions exist, to provide workers with such approved individual protection devices and to inform them of the risks relating to noise exposure.

1.8 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.

1.9 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.

1.10 Technical details
DG150 SE

Power	kW	11
Voltage	Volts	400-690 / 50-60
Current draw	A	28
Max. vacuums rate	mm H₂O	6.000
Max. air flow rate	m³/h	520
Noise level	dB(A)	78
Isolation	Class	F
Filter type		Polyester cat. "L"
Filter surface	cm²	49.000
Capacity	L	100
Suction inlet	∅	80
Dimensions	cm	64 X 130
Height	cm	165

1.11 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



SAFETY SECTION

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 precautions 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 precautions 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:



Attention!

Unless these messages are heeded, operator injuries could occur.



Warning!

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

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.



2.2 Safety precautions

**Important!**

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 precautions for the various operations.

Maintenance jobs must always be performed with the power plug detached from the power point.

The employer must inform and train the user according to the provisions of applicable laws.

Before using the machine, prepare and train yourself by reading this manual carefully. Use of the machine by untrained and unauthorised persons is forbidden. Using the machine to vacuum toxic substances is forbidden unless this has been equipped with special filters required for the specific type of dusts. Such filters must be explicitly requested by you.

Do not vacuum flammable materials or substances or which could cause explosions (fuels, solvents, etc.). To vacuum such materials, the machine must be built with Anti-explosion Motor and Electric System and this must be requested by you explicitly.

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

Use of the machine without the supplied filters is not recommended.

If the filters are correctly fitted, the machine will not eject any objects.

If the machine is used to vacuum toxic-harmful substances, the container must be emptied and the filters cleaned using adequate individual protection devices, selected according to the type of substances to be vacuumed.

Never rest miscellaneous materials on the horizontal protection guard. The machine casing containing moving parts must not be removed by the user. When using the machine, mind other people, especially children. Use the machine cautiously on slopes and ramps. Do not change direction on gradients.

Make sure the parked machine remains stable by operating the braked wheel.

During cleaning operations, maintenance jobs or when changing parts, the starter switch must be off and the machine must be disconnected from the power mains by removing the cable from the socket. Only skilled persons should carry out repairs.

During use, mind the power supply cables and avoid crushing or pulling these. Periodically check the mains power cable to ensure this is not damaged.

In the event of the cable being damaged, the machine must not be used. In the event of the cable, plugs or couplings being replaced, make sure these are protected against water spray and check mechanical strength.

Never pull the machine by means of the power cable and the vacuum pipe.

Motor brushes and burnt-out fuses must be replaced by DELFIN or authorised dealers. Always use original spare parts.

The user is responsible for disposing of vacuumed substances in accordance with applicable laws. After 10 years of use, we recommend sending the machine for a complete overhaul to DELFIN srl.

The machine is supplied with: instruction manual, Exploded Spare Parts drawing, Test Sheet, Warranty Slip, Approval Certificate.

In the event of Customers fitting a tool to the machine not supplied by DELFIN , make sure the safety conditions required by **Machine Directive 2006/42/CE** are complied with and in any event, DELFIN is unable to accept liability for any problems arising from use of such tool.

The vacuum cleaner must not be operated in a corrosive or explosive environment.

Always make sure the vacuum cleaner is free of all foreign materials such as debris, oil, equipment and other objects that could affect operation and cause injury to persons.

Avoid using flammable or toxic solvents such as petrol, benzene, ether and alcohol for cleaning.

Avoid prolonged contact with solvents and inhaling their vapours. Avoid use close to open flames or sources of heat.

Never use the vacuum cleaner without the filter.

Do not vacuum lit cigarette ends. The filter could be damaged. Do not vacuum petrol or flammable liquids in general.

Make sure all the guards and protection devices are in place and that all the safety devices are in place and working properly.

Do not wear loose or hanging clothing such as ties, scarves or torn garments that could become trapped and be sucked up by the cleaner.

Do not open the vacuum container with the machine running.

The manual should always be kept handy for reference so the operating cycle can be checked every time there are doubts.

In the event of this manual being lost or damaged, ask DELFIN for a new copy.

Structural damage and improper alterations or repairs could change the protection capacity of the vacuum cleaner and therefore cancel this certification.

Any alterations to the appliance must only be made by Delfin engineers.

During maintenance jobs, affix a notice to the appliance indicating **"MACHINE BEING SERVICED, DO NOT START"**.

Climbing on the cleaner is forbidden. Never touch electric wires, switches, buttons, etc. with wet hands.

Before connecting to the power mains, make sure the power voltage and frequency are those shown on the machine plate.

Make power connections to a mains supply with efficient earth system.

In the event of an extension being used, make sure this is in perfect condition, marked CE and that the cross section of the cable is suitable for the vacuum cleaner power input.

When restoring original working conditions, the appointed personnel should make sure that at the end of the operating procedure, proper vacuum cleaner operation safety conditions are restored, especially the safety devices and the protective guards.

Only adult persons should use the vacuum cleaner.

During vacuuming operations, always brake the vacuum cleaner using the special revolving wheel lock.

2.3 Safety plates and symbols

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



Important!

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.



Important!

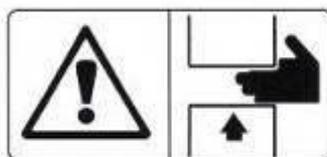
Read the operator's and maintenance manual carefully before using the cleaner or doing any maintenance jobs.

ATTENZIONE! WARNING! ATTENTION ! ACHTUNG! ¡ATENCIÓN! ATTENTIE!

- SCUOTERE IL FILTRO SOLO A MACCHINA SPENTA
- ONLY SHAKE THE FILTER WHEN THE MACHINE IS TURNED OFF
- NE SECOUER LE FILTRE QU'APRES AVOIR ETEINT LA MACHINE
- RÜTTELN SIE DEN FILTER NUR BEI AUSGESCHALTETER MASCHINE
- SACUDIR EL FILTRO SÓLO CON LA MÁQUINA APAGADA
- FILTER SCHUDDEN BIJUITESCHAKELDE MACHINE

IMPORTANT

**DO NOT BREATHE IN INFLAMMABLE
AND/OR EXPLOSIVE LIQUIDS OR
POWDERS**



Important!

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!!

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:

Electrical maintenance risks caused by the need to work under power.

Pursuant to **Presidential Decree 81/08**, only trained personnel should work on the machine with the power supply connected and this must have double earth insulation.

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.



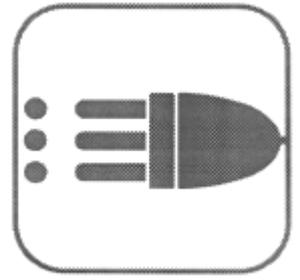
Important!

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.

2.5 Applied directives

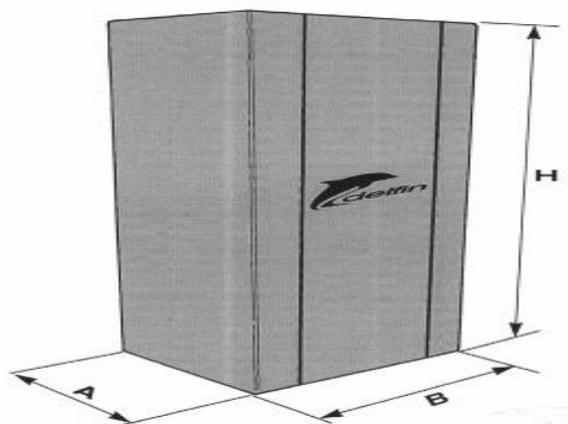
The following directives apply to the vacuum cleaner described in this manual:

- **2006/42/CE Machine Directive**
- **2004/108/CE Electromagnetic compatibility directive**
- **2006/95/CE Low-voltage directive**



INSTALLATION SECTION

3.1 Handling



	A (cm)	B (cm)	H (cm)	Weight (package included) Kg
DG150 SE	73	150	175	170

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

**Caution!**

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

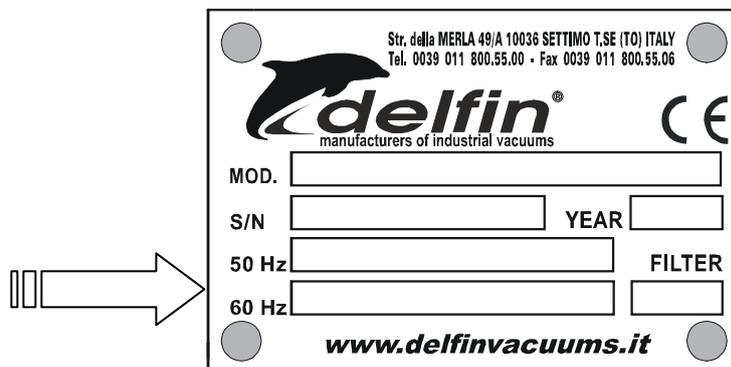
Fit the supplied connector on the pipe union.



Fit the supplied pipe in the connector.



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

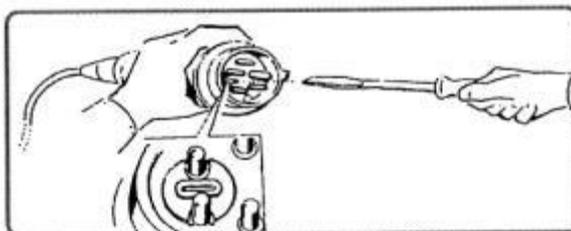


Important!

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

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

If, when the vacuum cleaner is switched on, the inlet blows air out instead of sucking it in, the machine will have to be switched off, the plug detached from the power socket and the direction of rotation of the motor changed by modifying the plug using a screwdriver as shown in the illustration.

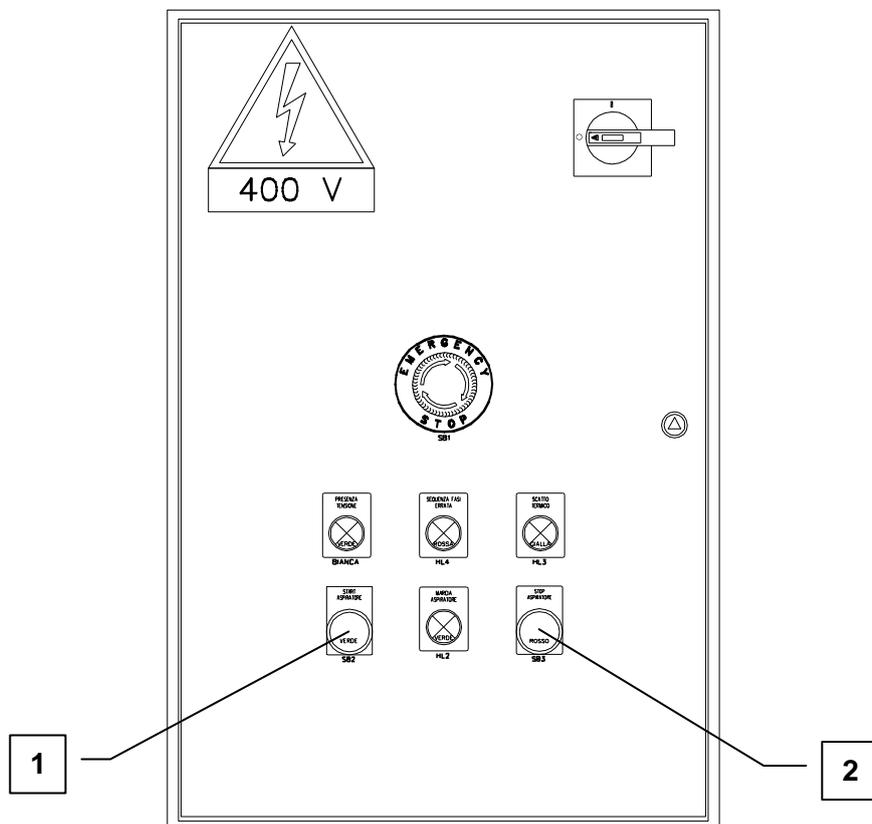




OPERATION SECTION

4.1 Description of controls

Model DG150 SE



1) START SWITCH MOTOR

2) STOP SWITCH MOTOR

4.2 Work cycle

**Important!**

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

- Make sure the power plug is correctly fitted in the power socket.
- Make sure the flexible hose is properly fitted and locked in the vacuum pipe union.
- Make sure the power cable and any extension used are integral and in perfect condition.
- Block the vacuum cleaner by means of the retainer provided.



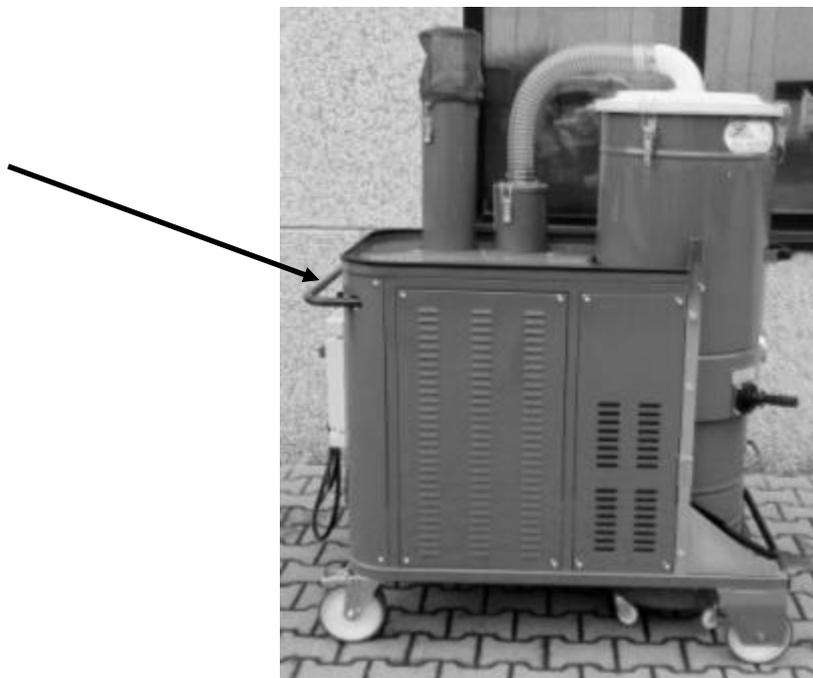
- Grip one end of the flexible hose complete with selected accessory.
- Press the START button and start vacuuming.
- To stop the vacuum cleaner, press the STOP button.

Caution!

Before switching the vacuum cleaner back on, make sure the motors have come to a complete halt.

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

To move the vacuum cleaner, use the large handle.



Important!

The vacuum can be moved only on flat ground !

If the vacuum is moved on inclined grounds, you can risk to lose the control, because of the weight and to damage persons or things.



Caution!

During vacuuming, avoid rolling up or bending the flexible hose.

4.3 Releasing and removing the removable container

Stop the vacuum motors by pressing the relevant STOP buttons.



Important!
Disconnect the plug from the power socket.

Model DG150 SE

Lift the lever located in the front of the vacuum to release and remove the container.



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.



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

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.



Important!
Danger of crushing upper limbs when fitting and locking the container on the vacuum cleaner.

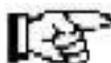
4.4 Using the filter shaking system

This operation must only be performed when vacuum cleaner is switched off and the motor is completely stopped. The filter shaking system is best operated every time before use and after prolonged operation.

**Caution!**

During vacuuming, avoid rolling up or twisting the flexible hose

On the front of the vacuum cleaner is a vacuum meter indicating the degree of vacuum inside the vacuum cleaner. If, with the vacuum cleaner working and the vacuum inlet free, the vacuum meter lever indicates an irregular depression level, the filter will have to be shaken by means of the special lever. If the indicator light remains on, clean and replace the filter.

**Caution!**

Never use the machine with the filter blocked.

**Caution!**

If the arrow of the vacuum meter stays in the red area even after cleaning the filter, the hose or suction accessory could be blocked. In this case, clean and remove the blockage.



MAINTENANCE SECTION



Caution!
Special maintenance jobs on the vacuum cleaner must only be done by the manufacturer's skilled technicians.

5.1 Informative notes

This section describes the control and special maintenance operations crucial for keeping the vacuum cleaner in perfect working condition.

Any other jobs which might be necessary to eliminate operating faults must be expressly authorised by the manufacturer. In such cases, always notify the identification details of the cleaner.

In the case of major repairs, it is best to contact an authorised dealer, whose skilled personnel, backed by all the technological experience relating to the original factory construction methods, are always available and ready to promptly intervene.

5.2 General safety precautions

Maintenance jobs must always be performed by skilled technicians, trained to carry out their specific jobs. In the case of this machine, these are:

- *Mechanical maintenance*
- *Electrical maintenance*

The Safety Manager has the precise duty of determining the professional capacities and skills of such persons.

Before doing any maintenance job, the safety manager must:

- Make sure there are no unauthorised persons in the work area.
- Make sure the necessary tools are on hand and that these are in good condition.
- Make sure that lighting is adequate and, if necessary, provide 24-V portable lamps.
- Make sure the maintenance engineer is equipped with all approved individual protection devices needed for the specific operation (gloves, eyewear, shoes, etc.).
- Make sure the maintenance engineer has carefully read the instructions contained in this manual and knows how the vacuum cleaner works.

Before carrying out a maintenance job, the maintenance engineer must:

- Disconnect the plug from the power socket.

Work done on motors or other electrical component parts must only be performed by a specifically trained electrician, authorised by the Safety Manager.

Always use tools that are in perfect condition and specifically made for the operation to be done. The use of unsuitable tools or tools not in good condition could cause serious damage.

5.3 Maintenance operations

**Important!**

All the described operations must be done with the plug disconnected from the power socket.

Before starting any maintenance or cleaning job, always wear adequate protective clothing, eyewear and/or gloves according to the type of job to be done.

For smooth vacuum cleaner operation, a number of controls are best made periodically:

- Check to see whether the filter is worn or has become too permeable.
- Make sure the sealing gaskets of the motor head base, of the filter-holder ring and of the container are working efficiently.
- The electrical parts (plugs, switches, cables, etc.) must not be faulty.
- The screws and nuts must always be tight.
- Make sure the container is not overfull. This should be emptied when the vacuumed material has reached 3/4 of maximum capacity.
- Check the integrity of the flexible vacuum hose and accessories to be used.
- If the flexible hose is perforated, the power of the cleaner will be reduced and dust and liquids will leak into the environment.

Caution!

All maintenance and repair jobs must be performed directly by DELFIN or its authorised dealers.

5.4 Replacing the filters

Mod. DG150 SE

To replace the filters, proceed as follows:

- Turn off the vacuum cleaner by pressing the motor **STOP** buttons.
- Disconnect the vacuum cleaner plug from the power socket.



Important!
Wear individual protection devices.



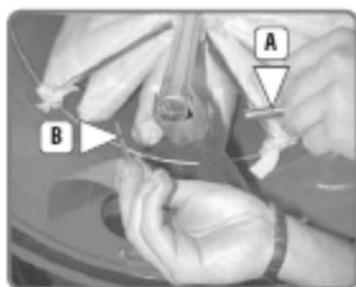
Block the vacuum cleaner by means of the stop.



Lift the lever that lock the container.



Remove the container.



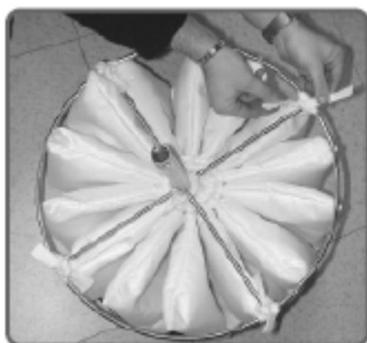
Remove from underneath the vacuum cleaner the pin (A) and spring pin (B) that fasten the filter to the shaking lever.



Remove the filter with its complete support.



Loosen the clamp and remove the support ring with seal.



Remove the knots and take out the pocket filter. Fit the new filter and put everything back in place, locking the cap.



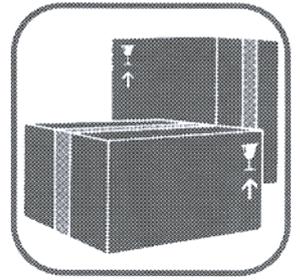
Important!

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.

5.5 Troubleshooting

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

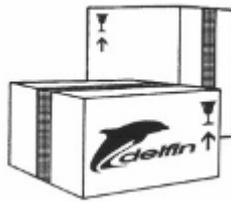

Caution!
For any other problems, contact the DELFIN after-sales service.



SPARE PARTS SECTION

6.1 Recommended spare parts

DESCRIPTION	CODE
Ø500 H600 20 pockets "G" polyester filter	AR2072
Ø500 filter holder ring	AR2017
Ø500 filter gasket	AR2013
Ø500 filter clamp	AR2018
Ø180x200H nylon diffusor filter	AR4625
10X30 adhesive gasket (mt 1,60)	AR4274



FAX

Delfin srl
Strada della Merla, 49/a
10036 Settimo Torinese (TO) – Italy
Tel. 0039.011.8005500
Fax 0039.011.8005506

Page _____ of _____

IMPORTANT: type or complete in block capitals

Date _____

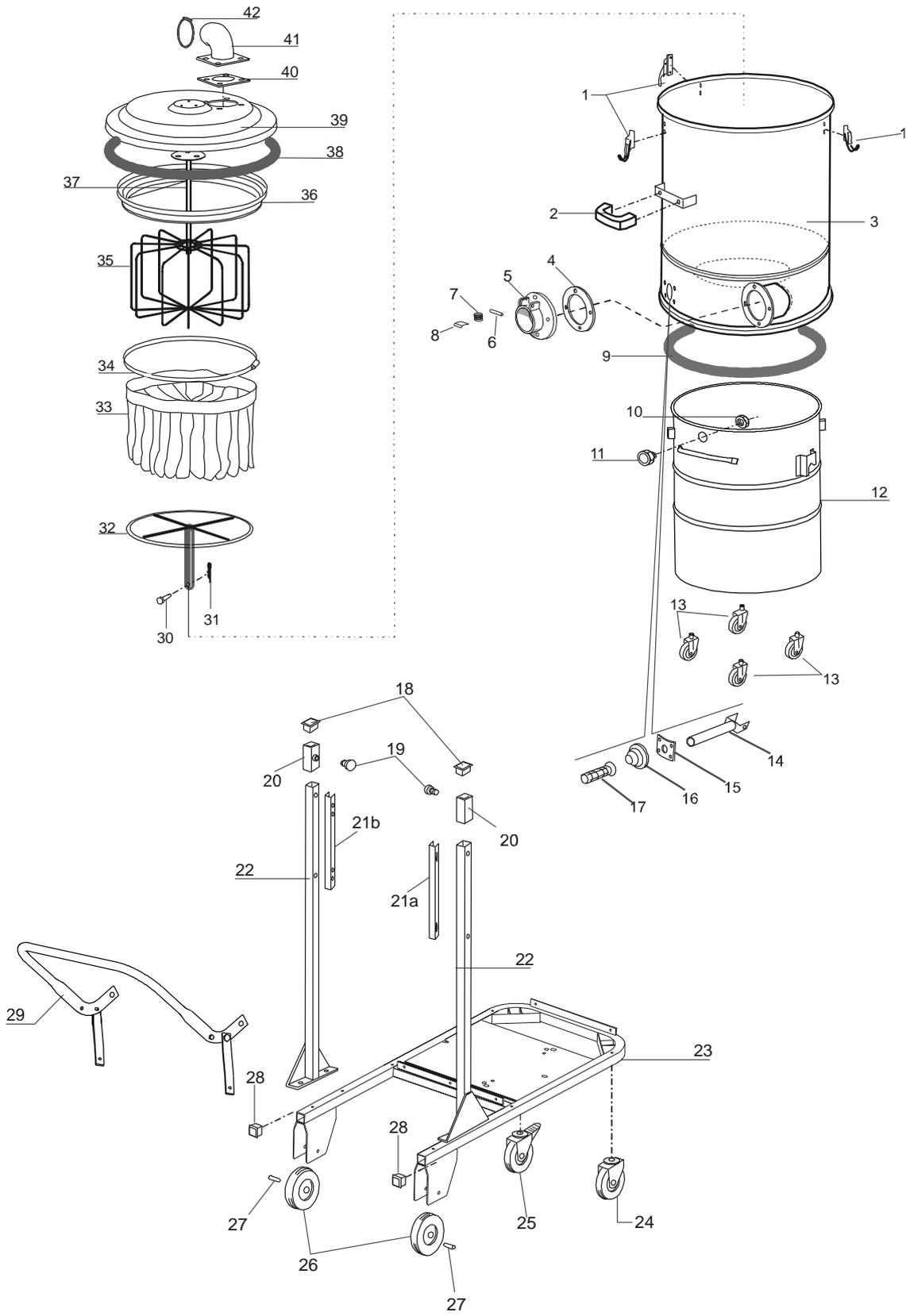
SPARE PARTS ORDER FORM

SENT BY _____ TEL _____

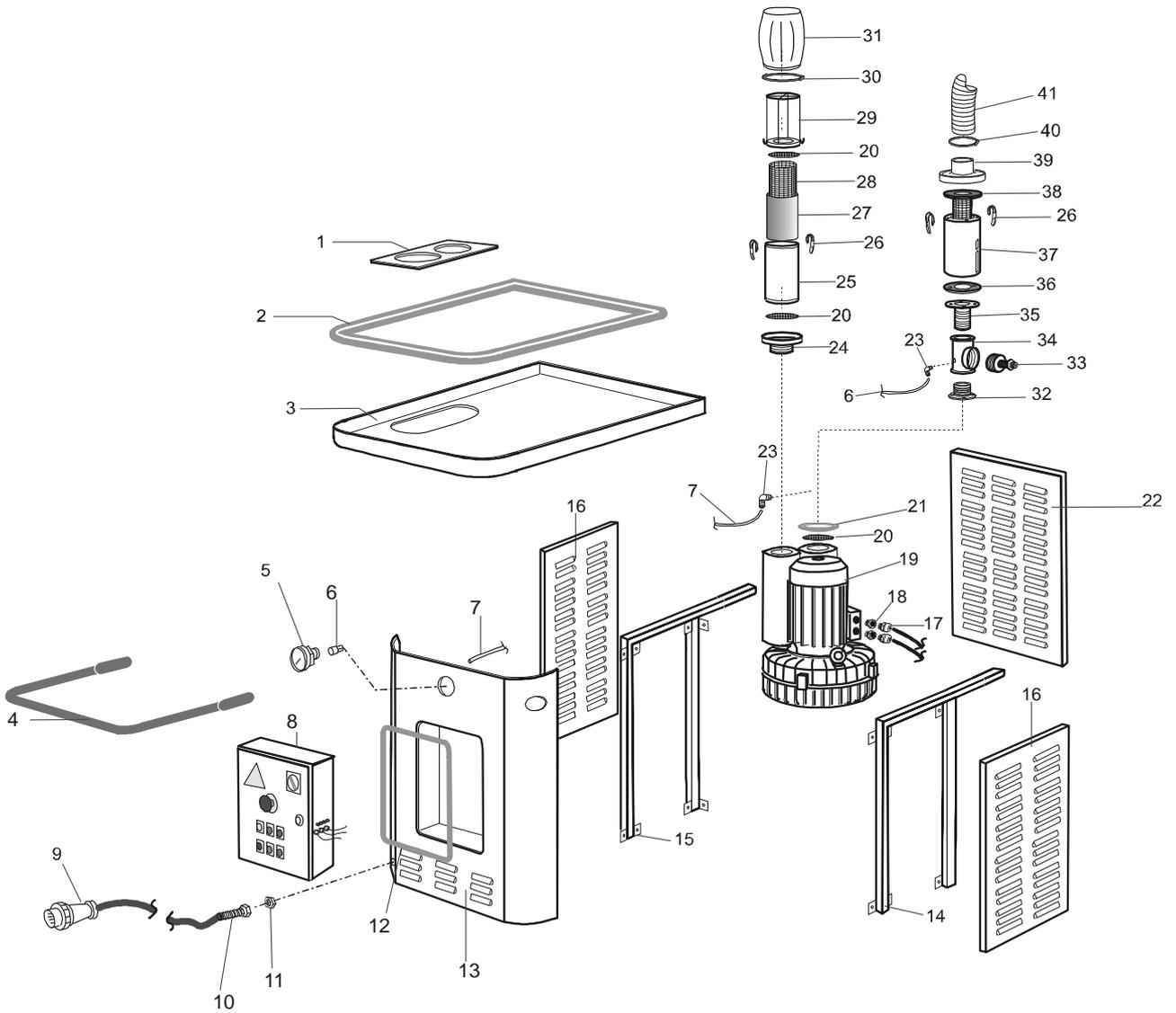
DESTINAZIONE DEI RICAMBI	ADDRESS _____
	LOCALITY _____ PROV _____
	NACIONALITY _____ TEL _____

MODEL	PART NO.	TAB.	PART CODE	
DESCRIPTION				Qty
MODEL	PART NO.	TAB.	PART CODE	
DESCRIPTION				Qty
MODEL	PART NO.	TAB.	PART CODE	
DESCRIPTION				Qty
MODEL	PART NO.	TAB.	PART CODE	
DESCRIPTION				Qty
MODEL	PART NO.	TAB.	PART CODE	
DESCRIPTION				Qty
MODEL	PART NO.	TAB.	PART CODE	
DESCRIPTION				Qty

DG150 SE



Rif.	Codice	Un. Mis.	Q.tà	Descrizione
1	AR2001	N	3	CHIUSURA A GANCIO
2	AR2001	N	1	MANIGLIA L=140
3	AR3731	N	1	CAMERA FILTR.D500 H850 TNG D100
4	AR2414	N	1	GUARN.BOCCHETTONE PRESSOFUSO D80
5	AR3880	N	1	BOCCHETTONE D. 80 PRESSOFUSO PIATTO
6	AR2416	N	1	SPINA BOCCH. PRESSOFUSO
7	AR2417	N	1	MOLLA SALTARELLO
8	AR2418	N	1	SALTARELLO BOCCHETTONE PRESSOF
9	AR4274	MT	1,60	GUARN. CONTENITORE CAMERA D500
10	AR3114	N	1	GHIERA BLOCCAGGIO 40X1.5 ZB (KM008)
11	AR2079	N	1	INDICATORE LIVELLO
12	AR2078	N	1	CONTENITORE D450 H605
13	AR2062	N	4	RUOTA D60 NYLON PIV.
14	AR2063	N	1	LEVA SCUOTIFILTRO
15	AR2065	N	1	FLANGIA SCUOTIFILTRO
16	AR2066	N	1	SOFFIETTO LEVA SCUOTIFILTRO
17	AR2008	N	1	MANOPOLA LEVA SCUOTIFILTRO
18	AR2051	N	2	COPRITESTA QUADRO 35x35
19	AR2363	N	2	FULCRO LEVA AGGANCI
20	AR2178	N	2	CORSOIO DM3
21a	AR2086	N	1	PROFILO U CAMERA D. 500 SX
21b	AR2087	N	1	PROFILO U CAMERA D. 500 DX
22	AR4903	N	2	MONTANTE DG150
23	AR2604	N	1	CARRELLO DG150
24	AR4711	N	1	RUOTA D200 PU GIR. S/FRENO (SERIE DG-TS)
25	AR4712	N	1	RUOTA D200 PU GIR. C/FRENO (SERIE DG-TS)
26	AR4710	N	2	RUOTA D200 PU (SERIE DG-TS)
27	AR4710/CEB	N	2	KIT ASSALE RUOTA AR4710
28	AR2134	N	2	PUNTALE QUADRO 40X40
29	AR2084	N	1	LEVA AGGANCI GRANDE
30	AR2481	N	1	PERNO AGGANCI GABBIA
31	AR2480	N	1	MOLLA ZIG ZAG mm3
32	AR2073	N	1	GABBIA SCUOTIFILTRO H=235
33	AR2072	N	1	FILTRO POL.G D500 H600 20T
34	AR2018	N	1	FASCETTA FERMAFILTRO 14MM L1510 PREMONTATA
35	AR2071	N	1	GABBIA TENDIF.20R H230 DG2-100
36	AR2017	N	1	ANELLO REGGIFILTRO D. 500
37	AR2404	N	1	GUIDA GABBIA D/G100-150
38	AR2013	N	1	GUARN. REGG. D. 500
39	AR4790	N	1	COPERCHIO D525 DG150
40	AR2286	N	1	GUARN.BOCCHETTONE CURVO D80
41	AR3986	N	1	BOCCHETTONE CURVO Ø70 SERIE RSCH
42	AR4467	N	1	FASCETTA STRINGITUBO 9MM 60-80



Rif.	Codice	Un. Mis.	Q.tà	Descrizione
1	AR4007	N	1	PIASTRA CENTRAGGIO DG100 RSCH
2	AR3173	MT	2,80	GUARN. ANIMATA SLIGEER
3	---	N	1	COPERTURA SUP.DG150SE (ASOLATA)
4	AR3313	N	1	MANICO DI SPINTA DG150/TS1800
5	AR3140	N	1	VUOTOMETRO D. 63 -6000 -0 MM H2O
6	AR4308	N	1	RACCORDO RAPIDO DRITTO G1/4F - D6
7	AR4336	MT	0,12	TUBO NYLON RILSAN 4X6 NEUTRO
8	---	N	1	QUADRO ELETTRICO DG150SE
9	AR3128	N	1	SPINA 400V 4POLI 32A CAMBIO FASE
10	AR4298	N	1	PRESSACAVO POL. SPIR. PG 21 NERO (D. 9/16)
11	AR4235	N	1	DADO POLIAMIDE PG 21 NERO
12	AR3173	MT	2,10	GUARN. ANIMATA SLIGEER
13	AR3321	N	1	COPERTURA POST.DG150/TS1800
14	AR3322	N	1	TELAIO PORTAPANN. DX DG150
15	AR3323	N	1	TELAIO PORTAPANN. SX DG150
16	AR3324	N	2	COPERTURA LAT.DG150/TS1800
17	AR4350	N	2	PRESSACAVO M32X1,5 D. 10/15
18	AR4833	N	2	RIDUZIONE M40X1,5 - M32X1,5
19	AR3974	N	1	G.A.RSCHSE KW11V400/690/50 IP55
20	AR3343	N	3	RETE FLANGIA D168
21	AR2077	N	1	GUARN. BOCCHETTONE TANGENZIALE D100
22	AR3326	N	1	COPERTURA ANT.DG150/TS1800
23	AR3342	N	1	RACCORDO RAPIDO A GOMITO GIREV. G1/8 M - D6
24	AR4011	N	1	FONDELLO Ø167 - 4"
25	AR4025	N	1	TUBO INS.D168 H500 DG RSCH
26	AR4002	N	4	GANCIO CHIUSURA FILTRO SIC .DG RSCH
27	AR4220	N	0,20	INSONORIZZ. (LASTRA 2000X1000X30) NON ADESIVA
28	AR4027	N	1,00	TUBO RETE D110 H500
29	AR4787	N	1	FONDELLO D167 PER FILTRO DIFFUSORE
30	AR3597	N	3	FASCETTA NERA 9X357POL.12 M802
31	AR4625	N	1	FILTRO DIFFUSORE NYLON D180X200H
32	AR4014	N	1	FLANGIA D150-3" INN.TURB.DG100 RSCH
33	AA1334	N	1	VALVOLA LIMITATRICE VUOTO 3"
34	AR4023	N	1	RACCORDO A "T" 3"F-F-F
35	AR4015	N	1	FLANGIA Ø167- 3" CONT.FILTRO SIC. SERIE RSCH
36	AR4000	N	1	GUARNIZIONE Ø167 CONT. FILTRO SIC. D/G SERIE RSCH
37	AR4001	N	1	CONTENITORE Ø167 FILTRO SIC. D/G SERIE RSCH
38	AR4003	N	1	FILTRO SIC. D/G SERIE RSCH
39	AR4004	N	2	FONDELLO Ø167 ASPIRAZIONE D/G SERIE RSCH
40	AR4467	N	1	FASCETTA STRINGITUBO 9MM 60-80
41	AA1112	MT	1,20	TUBO POLIURETANO D70



Distributor:

A large, empty rectangular box with rounded corners, intended for the distributor's name and contact information.