

PROFESSIONAL VACUUM CLEANER **PRO-3**



USER AND MAINTENANCE MANUAL



1. DESCRIPTION

PRO-3 is a powerful and reliable professional vacuum cleaner, indicated for serving those machines which generate dust in the the Dental Lab as well as of the Jewellery branch. The high-speed, one-stage motor provides rapid suction and conveys dust towards the stainless steel housing, where the 3 filtering stages are located. Coarse particles stop on a first paper bag, the smaller ones stop on a second nylon sack and the finest (and the most dangerous) ones stop on the surface of the internal microfiltering cartridge.

PRO-3 can be easily connected to dry model trimmers, interior trimmers, sandblasters, cutting machines, workbenches. Double connection is featured, as well.

This unit is to be used for suction of dust and small debris. Do not use for suction of liquids.

2. TECHNICAL REFERENCE REGULATIONS AND TEST MODES

Suction units of the range PRO-3 (PRO-3 and PRO-3 Shake) are mass-manufactured by DENTALFARM in compliance with technical and safety rules in force, as provided for by the 2006/42 EEC Community Directive on machinery.

Careful inspection and full routine testing is carried out singularly on each machine which is furtherly tested by an automatic test installatio assuring compliance with the fixed limits.

NOISE LEVEL – Values measured according to norms EN 60704 -1 (1996) / EN 60704 -2 - 1 (2000). Measurement A of the acoustic pressure level of this unit is ≤ 69 dB (A).

3. TECHNICAL SPECIFICATIONS

Description	PRO-3	PRO-3 Shake
dimensions	380x380x620h	380x380x800h
Dimensions (packed)	400x400x730h	400x400x930h
weight	10,0 kg	13,5 kg
Weight (packed)	12,5 kg	16,0 kg
motor	1.000W	1.200W
volume	150m3/h	170m3/h
noise level	<69 dB (A)	<69 dB (A)

4. DEMOLITION AND WASTE DISPOSAL

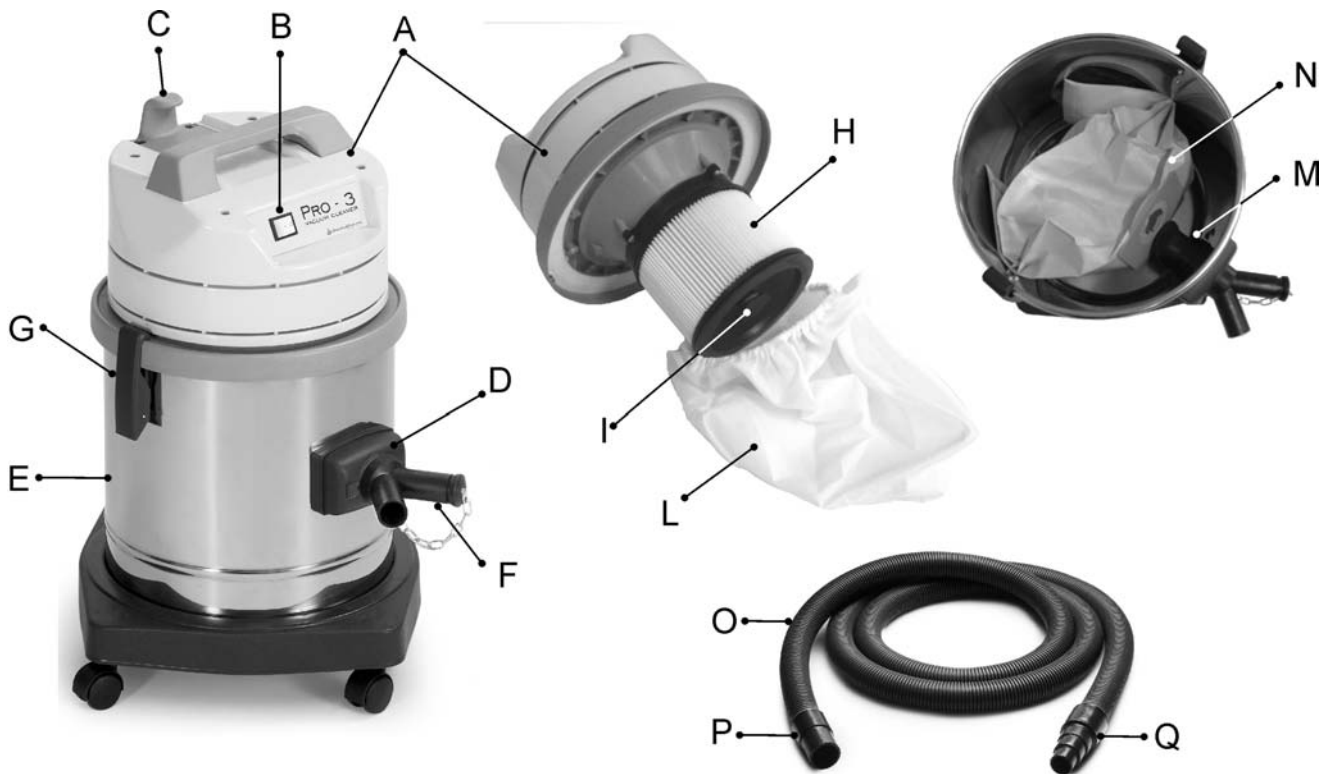
According to International regulations, this unit has been classified as AEE (electric and electronic device, whose correct operation depends on electric currents and electromagnetic fields) and as a consequence, at the end of its lifetime, it can not be treated as normal waste material but it must be disposed separately, complying with the Directive 2002/96/CE.



5. GENERAL PRECAUTIONS

- The packing components can be potentially dangerous (for instance plastic bag) : keep them out of the reach of children and other non-conscious persons.
- **WARNING:** this unit can be used for suction of dry dust only. It cannot be used in the open air or in presence of moisture.
- Every use differing from that indicated in the manual can be potentially dangerous and is to be avoided.
- When the unit is running, avoid to position the air intake near eyes, ears, mouth or other delicate parts of the body.
- Completely assemble the unit before use.
- Ensure that the electric socket complies with the plug of the machine.
- Ensure that the tension value stated on the motor group corresponds to the network used to connect the unit.
- **WARNING:** do not suck up inflammable substances (chimney ash) or explosive, toxic or dangerous materials.
- Do not suck up substances which could damage the sack (pieces of glass, metal, etc.)
- Do not suck up liquid substances
- Do not leave the machine running without supervision.
- Always disconnect the plug from the electric socket before carrying out any maintenance operation or when the machine is accessible to children and non-independent persons.
- Do not pull or lift the machine by the electric cable.
- Do not immerse in water for cleaning and do not wash with water jets.
- Regularly check the supply cable to detect any possible damage, as cracks or wear. In case of damages, replace the cable before further use.
- When using electric extensions, ensure that these lay on dry surfaces and are protected from water splashes.
- Maintenance and repair operations should always be carried out by trained technicians. Spare parts which will be needed must be original.
- The Manufacturer declines any kind of responsibility for damages which can be caused to thing or persons as a consequence of non-compliance with the indications listed in this manual, or in case of improper use of the unit.

6. LIST OF COMPONENTS AND ACCESSORIES ON DEMAND



LIST OF COMPONENTS

A	SUCTION GROUP (MOTOR)	I	CARTRIDGE FIXING KNOB
B	SHUTTER	L	NYLON SACK
C	SUPPORT FOR ELECTRIC CABLE	M	DEFLECTOR
D	SUCTION INTAKE	N	PAPER BAG
E	METAL HOUSING	O	FLEXIBLE PIPE
F	3-WAY-FITTING WITH CAP	P	SIMPLE SLEEVE
G	LOCKING HOOKS	Q	CONNECTION HOSE ADAPTER
H	MICROFILTERING CARTRIDGE		

LIST OF ACCESSORIES ON DEMAND:

- 1501100 PACK OF 10 FILTERING PAPER BAGS FOR PRO-3 SUCTION UNIT
- 1501501 KIT FOR DOUBLE CONNECTION - 3 m flexible pipe, a simple sleeve and a hose adapter.
- 1501502 KIT FOR CONNECTION TO SANDBLASTER – a high-capacity flange and a new adjustable air intake, to be fitted on the machine.

7. INSTALLATION INSTRUCTIONS

1. The suction unit has got wheels, so that it can be easily moved next to the machine to be served.
2. Undo the hooks (G) fixing the suction group (A) to the housing (E), install the paper bag (N) on the deflector (M) located on the air intake (D) and the polyester sack (L) around the pleated cartridge (H). Close again and reassemble carefully.
3. Fit the 3-way-pipe-fitting (F) on the air intake (D).
4. Connect the coupling (P) of the flexible pipe (O) on one of the three openings of the 3-way pipe-fitting.
5. Safety connect the flexible pipe to the suction collector located on the machine to be served. To make this operation easier, the rubber sleeve (Q) mounted on the end of the pipe has 3 different diameters: choose the appropriate one and crosscut the rest, then tighten with a hose clamp.
6. It is recommended not to keep a too high distance between the machine producing dust and the suction unit; also, avoid syphons or curves in the connection pipe, as these could collect a lot of dust and cause a loss of efficiency. If necessary, shorten the pipe (the sleeves are screwed on the pipe spiral).
7. Connect the power supply cable to an approved, grounded socket.

The different machines which can be connected to the suction unit are likely to generate different quantity of dust: this can be due to the dimension and the type of the suction element they are using, to the quality of the material which is being treated, to the technology of the machine itself. Beyond this, we will have to consider that some operations are carried out in completely closed units, other at open air. All these combinations of factors cause different concentrations of dust particles and it will be therefore necessary to measure out the volume of air getting to the motor, in order to ensure proper suction and depuration.

When only one unit is connected, it is recommended to keep open the free inlet of the 3-way pipe-fitting in order to let in a bigger volume of air. When a sandblaster is connected, it will be necessary to open an air intake on the opposite side of the unit to work as a suction chimney.

In case a double connection is needed, ask for the specific kit (code 1501501) and proceed as for the first installation.

8. INSTRUCTIONS FOR USE

Before starting working and generating dust, switch on the main shutter (B) of the suction unit and ensure the depression generated by the motor is sufficient (that indicates that the filters are not saturated).



This unit can be used only for suction of dry dust and it cannot be used or stored in the open air or in presence of moisture.



Do not suck up inflammable, explosive, toxic or dangerous substances.

9. MAINTENANCE



Before carrying out any maintenance operation on the machine or on the installations, disconnect the cable from the socket in order to completely insulate the equipment from the electrical network. In case of any doubts or possibility of error, please contact our Technical service in order to avoid any damages or risks.

A reduction of the evacuation speed indicates that the filtering elements are almost saturated; in that case, it would be convenient to inspect them and carry out ordinary maintenance.

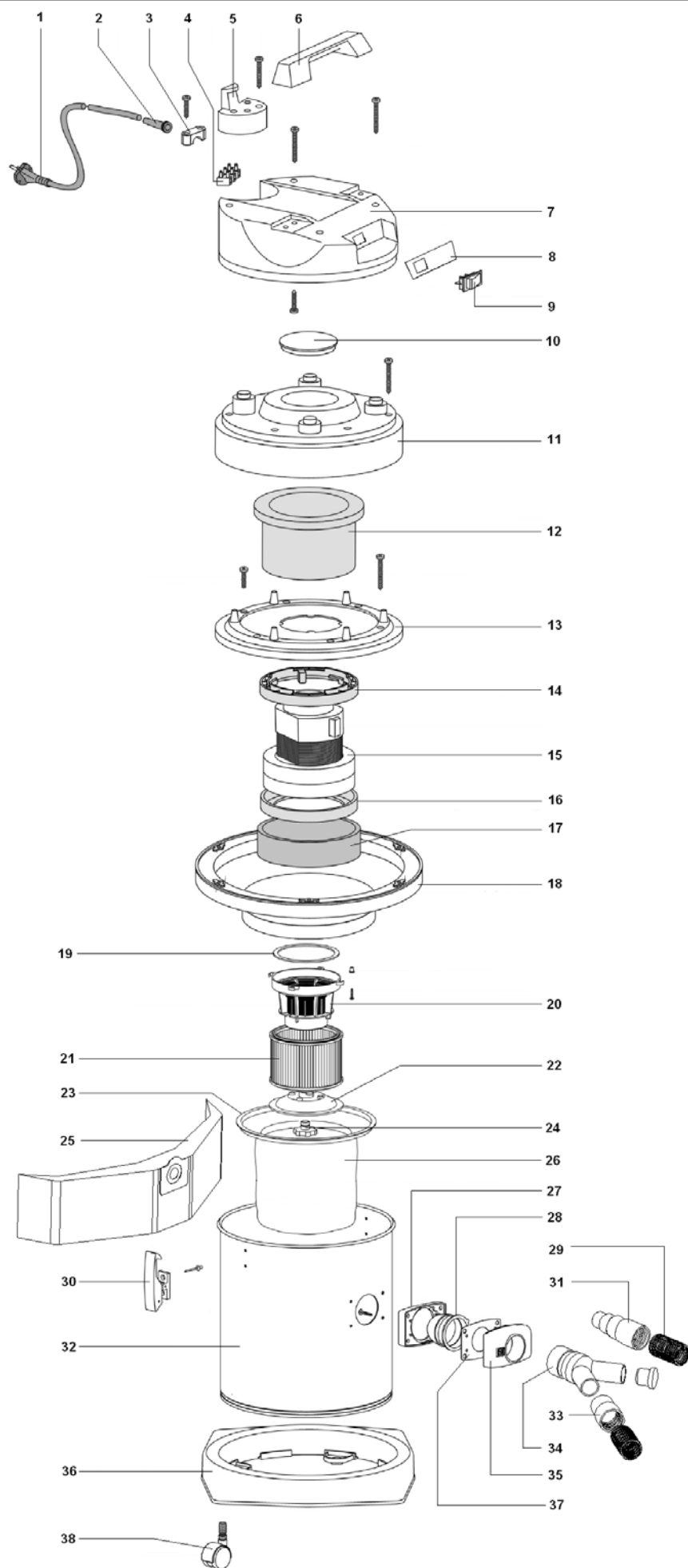
Open the hooks fixing the filtering group to the metallic housing and:

1. shake the upper part so that the dust sediment can be removed from the pleated cartridge.
2. Lift up the polyester sack, empty it and, if necessary, wash it (mount it again only when it has completely dried up).
3. Remove the paper bag and throw it away with all its content.
4. Remove all impurities deposited on the bottom of the housing.
5. Mount another paper bag.
6. Re-assemble all elements as originally positioned.

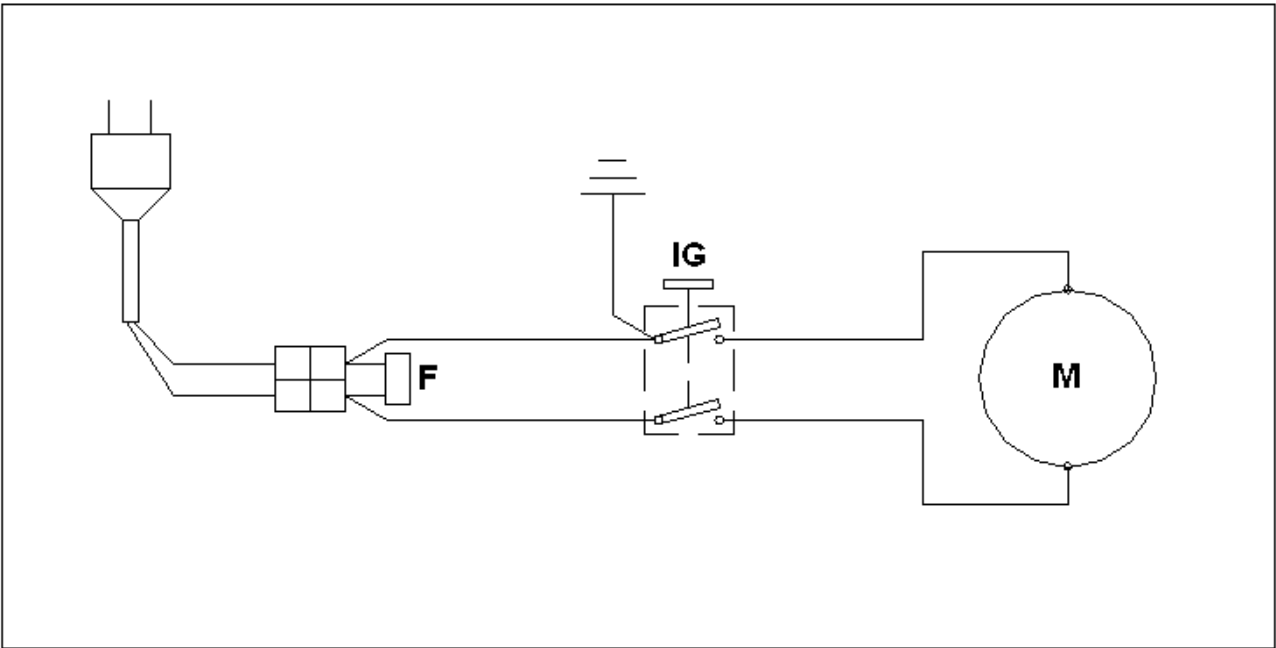
Every 3-4 times when performing the above operation, it will be convenient to deeply clean the microfiltering cartridge. By rotating the fixing knob, the cartridge can be extracted from its seat and blown from the inside with compressed air, thus eliminating a higher quantity of dust. When doing this, we recommend also to blow the motor group in order to clean up all evacuation conducts.

10. EXPLODED DRAWING AND SPARE-PART LIST

No.	CODE	DESCRIPTION
1	1501050	2x1 electric cable with plug
2	1501051	Fair-lead
3	1501052	Cable locking ring
4	1501053	Terminal board
5	1501021	Hook for cable
6	1501022	Handle
7	1501020	Cover
8	1501001	Brand label
9	1501055	Switch
10	1501023	Cover cap
11	1501024	Motor compartment cover
12	1501032	Sound-absorbing filter
13	1501025	Motor support
14	1501033	Motor spacer
15	1501014	Motor type DT30 800W
16	1501034	Motor gasket
17	1501035	MTP/30 filter
18	1501026	Base with gasket
19	1501036	Seal
20	1501027	Filter cartridge cage support
21	1501007	Filter cartridge
22	1501028	Cartridge locking disc
23	1501029	Nylon bag support ring
24	1501056	Knob
25	1501100	Paper filter bag (pack of 10 pcs.)
26	1501009	Nylon filter bag
27	1501037	Seal R205
28	1501038	Deflector
29	1501004	Suction pipe D. = 29 x L = 3m
30	1501041	Plastic hook complete
31	1501005	Sleeve for pipe D. = 29
32	1501030	PRO-3 deum
33	1501006	Universal reduction sleeve
34	1501003	Y-fitting with cap
35	1501039	Filler
36	1501031	Base for drum
37	1501040	Seal D38
38	1501054	Wheel



11. WIRING DIAGRAM



REF.	DESCRIPTION
F	Anti-jamming filter
IG	Switch
M	Motor

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