CE

SANDBLASTER

BASE Evoluzione

🕮 USER AND MAINTENANCE MANUAL

dentalfarm
DENTAL EQUIPMENT SINCE 1972

1. TECHNICAL DETAILS

Height	445 mm
Width	415 mm
Depth	370 mm at base – 465 mm overall
Net and Gross weight	12,8 kg – 15,3 kg
Voltage	230 V - 50 Hz (different tensions available on demand)
Absorption	60 W - 1,4 A
Lighting	Energy-saving 42 LED circuit
Dust filtering system	Possibility to add-on the built-in WAFIS system or PRO-3; compatible with traditional extractors

Devesting pressure	min 2,5 BAR - max 6,0 BAR
Air consumption	100 l/min at 4 BAR
Blasting nozzle	∅ 3,0 mm tungsten carbide nozzles
Abrasive grainsize min - max	mesh 80 (200μ) – mesh 36 (500μ)

Microblasting pressure	min1,5 BAR – max 6,0 BAR
Air consumption (∅0,8mm)	15 l/min at 2 BAR
Air consumption (∅2,0mm)	120 l/min at 4 BAR
Standard nozzles	2 x ∅ 0,8 mm tungsten carbide nozzles
Abrasive grainsize min - max	mesh 270 (50μ) – mesh 60 (250μ)

2. DESCRIPTION

BASE Evoluzione is a sandblasting unit designed for devesting and finishing operations in the Dental and Jewellery field.
The main features of the machine are: the ergonomic layout of the working chamber, the safety of use, and the trouble-free structure of the mechanical installation. **BASE Evoluzione** is equipped with useful accessories and ensures a fast, practical and accurate work. The unit consists of a devesting projector and of 2 **EASY tanks**, featuring a pressure release system and an instant stop of the blasting jet. The unit can thus operate with **three different abrasive media.** It is also possible to upgrade the unit to 3 or 4 microblasting tanks, thus offering **the possibility to work with 5 different abrasive media.**

The sandblasting process originates toxic dust which must not be inhaled; for this reason, **it is absolutely forbidden to operate the machine if a proper suction system has not been previously connected to the sandblaster.**
DENTALFARM has developed the so-called W.A.FI.S. (WATER AIR FILTERING SYSTEM), a patented solution which eliminates airborne dust thanks to the combined action of water and air pressure, in compliance with hygiene and safety regulations. The WAFIS system can be easily connected on the top left side of the machine and starts automatically when the sandblaster is switched on.
DENTALFARM ranges also include **PRO-3** and **PRO-3 Shake** suction units, which can be easily connected to any sandblasting machine.

3. TECHNICAL REFERENCE REGULATIONS AND TEST PROCEDURES

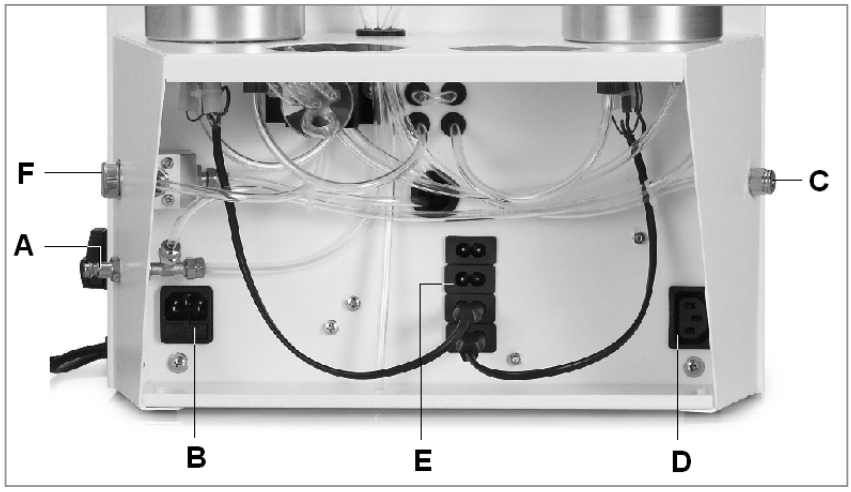
The appliance is mass-manufactured by DENTALFARM in compliance with technical and safety rules in force, as provided for by the Machinery Directive 2006/42 EEC.
Careful inspection and full routine testing is carried out singularly on each machine which is furtherly processed by an automatic testing installation assuring compliance with the fixed limits

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 Directive 2002/96/EEC.

4. INSTALLATION INSTRUCTIONS

/!\ ATTENTION	Installation of this machine is quite easy but must be carried out paying utmost attention in order to avoid any mistake which may originate problems, inconveniences and even damages during operation.

1. Place the machine on a proper workbench, which must be stable and strong enough to hold the machine safely. Keep a sufficient distance (10/15 cm) on the right side of the machine for the pipes, the feeding cables, as well as in order to have access to the shutter and the filter (F). If a built-in WAFIS system is present, preferably choose a workbench and a position (for instance on the bench edge) allowing the exhaust pipe to fall perpendicularly into the collection tank.



2. Insert the quick clutch fitting on the male intake (A) located on the right side of the unit and connect the pneumatic feeding pipe (polyethylene or rilsan, with diameter ∅ 8x6) to the pipe-fitting. It is also possible to use a ∅ 12x6 elastic feeding pipe, by using the fitting supplied with the unit.
3. Connect the electric feeding cable to the pre-fitted electric socket on the unit (B) and plug into an approved 220v AC - 50Hz network socket with ground connection.
4. Install the preferred suction system; WAFIS, PRO-3 or any other.
   The built-in WAFIS should be installed on the top left side of the unit: unscrew the 4 screws fixing the black collection intake and mount the WAFIS, unscrew the cap (C) and replace it by the pipe-fitting delivered in the package, put together with the other portion of pipe and plug the feeding cable into the electric socket (D).

   PRO-3 suction units should be connected by inserting the collection pipe into the pre-fitted intake.
   Any other suction system can be connected to the black collection intake by means of flexible piping; the inside manifold fits a ∅ 30mm pipe, the outside manifold fits a ∅ 40mm pipe.

5. Adjust the air flow to avoid the machine being under vacuum. Slightly turn the mobile section of the adjusting valve when the suction system is on and stop when you notice that the gloves are still slightly inflated.

6. Lift the window and fill the hopper with the appropriate abrasive (observe the indications below as for dimensions of nozzles and correct working pressure).

Name	Code	Description
CROMCOR	**AP-036**	Brown corundum, grainsize 36 (500 μ) for chrome-cobalt (may be used with nozzle ∅ 3,5 – white cap – upon request)
OROCOR	**AP-046**	White corundum, grainsize 46 (350 μ) for non-precious alloys (may be used with standard nozzle ∅ 3,0)
SUPERCOR	**AP-060**	White corundum, grainsize 60 (250 μ) for precious alloys (may be used with standard nozzle ∅ 3,0)
OROBLAST	**AP-300**	Glassbeads, 200 μ – for satin-finishing of any metal (may be used with standard nozzle ∅ 3,0)

7. **Microblasting tanks (EASY tanks) are identical in layout, but can feature different components (calibrated metering system) and external nozzles which vary according to the abrasive mixture they can supply**; it is therefore necessary to observe the indications written on the identifying labels. Should you need to use an abrasive compound of different grainsize (not listed below), it is possible to request the assembly components and to replace them.

This model can be fitted with 4 microblasting tanks; the 2 optional add-on tanks can be added at every moment (upon request of the proper configuration).
To pour abrasive media into the tank, unscrew the tank cap and fill in the tank till approximately 2/3 of its capacity (respect the maximum level marked on the label); then close the tank.

Strictly observe the following parameters, based on the abrasive grainsize.				
TREATMENT	**TANK (meter system)**	**RECOMMENDED PRODUCT**	**NOZZLE DIAMETER**	**PRESSURE**
Surface roughness on metals for composites	**A1072G (coarse)**	**AP-060** Orange label **(AL2O3 60 - 250μ)**	**2,0 mm** (RMN046)	4 BAR
Surface roughness on metals for composites	**A1072M (medium)**	**AP-120** Pink label **(AL2O3120 - 105μ)**	**1,2 mm** (RMN043)	3/4 BAR
Surface roughness on metals for ceramic or resin	**A1072M (medium)**	**AP-150** Green label **(AL2O3150 - 95μ)**	**0,8 mm** (RMN044)	3/5 BAR
Surface roughness on metals for ceramic	**A1072M (medium)**	**AP-180** Red label **(AL2O3180 - 80μ)**	**0,8 mm** (RMN044)	3/5 BAR
Sculpture on ceramic	**A1072S (fine)**	**AP-270** Yellow label **(AL2O3270 - 50μ)**	**0,5 mm** (RMN045)	3/5 BAR
Satin-finishing on any type of metal	**A1072M (medium)**	**AP-090 MICROBLAST** White label	Higher precision **0,8mm** Higher speed **1,2 mm**	3/4 BAR 4/5 BAR

A longer nozzle with ∅ 0,8 mm size (RMN044L) is available on request to carry out cleaning operations on ceramic prosthesis without metal support.

/!\ WARNING:	Very fine abrasives are highly sensitive to moisture and must be stored in a dry place, after the can has been accurately sealed and the dessicant packet has been duly introduced into the can (if needed, replace them periodically). When filling the abrasive tanks, check the condition of the abrasive product; if the moisture content is too high (bad flowability and presence of clots), it is recommended to heat the abrasive in order to allow it to dry up completely. It is also of utmost importance to check the condition of the compressed air which in no way must contain evidence of moisture or of any polluting agents (oil, grease or rust).

5. INSTRUCTIONS FOR USE

- Press the switch to illuminate the working chamber and feed the operating controls.

/!\ ATTENTION:	May we remind that the sandblasting process will start only provided the suction system is operating – as a consequence, the filtering system **MUST** always be installed and **OPERATED BEFORE** you start to work.

- Lift the window to introduce the pieces to be treated into the working chamber.
- Turn the selector switch knob to choose the type of blasting procedure you prefer – references marked on the label are herewith specified.

POSITION OF THE POINTER	SELECTED FUNCTION
YELLOW	DEVESTING OPERATIONS
GREEN	MICROBLASTING FROM THE GREEN TANK
BLUE	MICROBLASTING FROM THE BLUE TANK (if any)
RED	MICROBLASTING FROM THE RED TANK (if any)
WHITE	MICROBLASTING FROM THE WHITE TANK

- Press the foot control: when **removing investment**, air gets to the projector and is mixed up with abrasive coming from the working chamber, thus delivering the air-abrasive mixture necessary to carry out the treatment; in case of **microblasting**, air enters the selected tank putting it under pressure, it gets mixed with abrasive micrograins and will then be propelled through the spraying nozzle.
- Adjust the working pressure by means of the pressure adjusting device located next to the pressure gauge: lift the knob and turn it rightwards (to increase) or leftwards (to decrease). To lock the knob, push the knob back down.

NOTE	The abrasive used for finishing operations (tanks) cannot be re-utilized and will fall inside the working chamber, thus mixing up with corundum. This phenomenon will not affect your work (except if microbeads are being used), but the abrasive shall be replaced more frequently.

The microprojectors are ideally positioned in the centre of the working chamber to facilitate use with both hands. We recommend to put back them in place on their support at the end of the work.

The window is made of anti-scratch polycarbonate material, resisting to the rebounding abrasive grains. We recommend to use a soft cloth to clean it and to remove the dust from inside and the use of ptotection screens (code 1000532).

6. MAINTENANCE

Many of the components of any sandblasting machine are subject to wear: this is caused by the circulation of abrasive media; the instructions for a careful maintenance of the machine as well as the operations to replace the damaged or worn out parts are specified here below.

/!\ ATTENTION:	Before carrying out any maintenance operation inside the working chamber or technical repair of the connections, remove the feeding cable both from network socket and from the rear of the machine; in such a way, both the electric and pneumatic installation of the unit will be fully disconnected. Should you have any doubts or difficulties, please contact our Technical Service to avoid any risks or damages.

Cleaning of the 5my filter
A 5my filter, fitted on the right side of the sandblaster, prevents fine dust from damaging internal components. Remove the inspection cap every 2-3 months and blow the filter with compressed air to clean it from dust sediment.

Replacement of the polycarbonate window
Although the window is anti-scratch, it may be damaged by an extensive use (or a bad maintenance). Replacement is very simple: locate the screws which fix the window to the hinges and unscrew them.

Replacement of the plastic protection screens of the glass window: remove the fixing clips, clean accurately the glass and place a new protection screen.

Replacement of gloves
The gloves are made of highly resistant rubber, but are subject to the natural ageing of rubber and to the action of sweat (produced by hands). This cause them to dry up. To replace them, unscrew the flange screws and fit a new pair of gloves into the proper seat.

Replacement of the devesting nozzle
The devesting nozzle, even if made of tungsten carbide, known as a very hard material, will inevitably wear out, due to the continuous flow of abrasive and will therefore need to be replaced periodically. Remove the nozzle cap and insert a new group, paying attention to thoroughly fit it into the plastic body.

Replacement of nozzles
Nozzles of the microblasting tanks are also subject to wear and need to be replaced. To do this, unscrew the ring nut and assemble the new nozzle.

Replacement of abrasive media
To replace used abrasive media, pull the machine forward, lift the internal filtering grid, remove the cap from the bottom of the working chamber and let abrasive flow out, collecting it into a proper container.

Replacement of parts subject to wear (pipe, pipe-fittings, microprojector body)
The polyurethan pipe, the connection fitting and the microprojector body where abrasive flows will inevitably wear out and need to be replaced regularly. To replace the microprojector body, follow the same instructions specified for the nozzle; to replace pipes or pipe-fittings, capsize the unit and work under the container. It is also possible to disconnect each tank for easier operation, simply unscrewing the nuts fixing it to the housing.

Replacement of tank internal components
Should it be necessary to replace the tank internal components like joints, air injectors, abrasive outlet pipe, please contact our Technical Service.

Removal of a microblasting tank for repair purposes
The new tank units have been studied to facilitate your task during installation and removal.
1. Unscrew the feeding pipe ring nut and disconnect the pipe
2. Unscrew the plastic ring nut and remove the microprojector pipe
3. Unscrew the two nuts fixing the tank to the support, and unclutch the tank.

Procedure for the installation of an additional Modulo tank
- Disconnect the feeding cable and the quick clutch pipe-fitting of the compressed air
- Remove the sheet steel closing the tank seat by making it rotate on itself
- Fix the tank in place by means of the two nuts (adjust it so as to have the blue plastic pipe-fitting towards the centre of the machine)
- Remove the cap from a free pipe-fitting on the selector and introduce the air inlet pipe
- From inside the working chamber, loosen the screw fixing the microprojector support lower part and rotate it in order to locate the set up holes
- Drill the membrane of the rubber joint and let the free end of the handpiece pipe pass through
- Connect the handpiece pipe to the blue pipe-fitting under the tank.

7. TROUBLESHOOTING

Problem: **THE MACHINE DOES NOT START**	
Possible cause	**Remedy**
Lack of tension	Check: - magnetothermic switch - socket supply switch - fuses of the feeding board
Lack of distribution in the machine	Check: - socket connection - network fuse Should this malfunction repeat, contact our TECHNICAL SERVICE.

Problem: **NO LIGHTING**	
Possible cause	**Remedy**
Bad electrical connection	Check that the electrical plug is correctly plugged in.
Shutter is damaged	Check connections and operation (some dust could have oxidized contacts so that they seized up). Try to blow with compressed air and replace if needed.

Problem: **NO AIR IS COMING OUT**	
Possible cause	**Remedy**
Bad pneumatic connection	Check connection to the compressor.
Internal pipes are clogged	Check connections and condition of pipes up to their end (nozzles).
Air filter is clogged	Check and disassemble, if needed, the moisture collection glass and replace the internal filtering element.

Problem: **THE BLASTING FLOW IS IRREGULAR (devesting)**	
Possible cause	**Remedy**
Compressor is not efficient enough	Verify the features of the compressor, as this must provide a minimum power of 150 l / min (to ensure proper performance) and a 100 l tank (to ensure capacity).
Working pressure is not suitable for the metal to be treated.	Observe the prescriptions contained in the detail table of this manual.
Abrasive not suitable	As above.
Abrasive is exhausted	Replace with new abrasive.
Nozzle is not suitable or is worn out.	Observe the prescriptions contained in the detail table of this manual. Replace if needed.

Problem: **NO ABRASIVE IS DISPENSED, ONLY AIR COMES OUT (devesting).**	
Possible cause	**Remedy**
Nozzle is worn out.	The nozzle is ∅ 3,0 mm, in case of excessive wear and alteration of the diameter, replace it.
Nozzle is not properly positioned, so abrasive is not supplied.	The nozzle must entirely come out of the nozzle cap.

Problem: **NO AIR COMES OUT FROM THE PROJECTOR (devesting)**	
Possible cause	**Remedy**
The internal projector nozzle is clogged.	Remove the cap and clean the injector.
Solenoid valve is clogged.	Close air inlet, remove the coil and the core and clean; eventually get in touch with our Technical Service.

Problem: **NOZZLE-HOLDER CAP COMES OUT DURING WORK (devesting)**	
Possible cause	**Remedy**
Both piping and nozzle are clogged.	Close up the end of the nozzle and press the foot-control; the operating air flow will thus be inverted, eliminating any obstruction from inside the pipes. Should this irregularity repeat too often, remove abrasive from the hopper and filter it.
Worn out and pulverised abrasive.	Replace the abrasive, as this could be mixed with fine particles or investment residuals which will never go through the nozzle spraying hole.

Problem: **INTERNAL AIR LEAKAGE**	
Possibile causa	**Azione correttiva**
Condensate discharge on the filter.	The condensate discharge is carried out by the lifting of a ball cock. A sufficient level of pressure must be provided for the valve to close.
Internal pipes are disconnected	Check condition of the piping. Polyethylene pipes might not be perfectly calibrated; try to cut out a small portion from the end of the pipe and insert it into the pipe-fitting; if needed, replace the pipe.

Problem: **THE BLASTING FLOW IS IRREGULAR**	
Possible cause	**Remedy**
Nozzle is clogged or worn out.	Unscrew nozzle fixing nut, clean both the hole and microprojector components (especially the thread) - re-assemble without forgetting the seal washer. If necessary, replace the damaged parts.
Microprojector feeding pipe is worn out, bent or clogged	If the pipe is worn out or bent, replace it. If it is clogged, disassemble the nozzle and let air come out.
The abrasive mixture is too rich in aluminium oxide, i.e. loss of sharpness	Abrasive container is overfilled, discharge it. Pipe bending under the containers may collect abrasive at the end of the work, when the valve releases pressure; it is possible to limit this reaction reducing this pipe bending at the minimum.
Damp aluminium oxide causing bad flowing.	Empty the tank, possibly disconnect it from the machine and turn it upside down, blow with clean air in order to dry up all the internal pipings, then heat and dry up the abrasive product and fill in again.

Compressed air filled with condensation or oily particles.	Fine abrasive compounds are particularly sensitive to moisture and, as mechanic pickling agents, they hold the polluting agents. Therefore it is important to protect the efficiency of the product by installing adequate filtering and drying systems on the air installation.
Grainsize of the aluminium oxide is not compatible with the abrasive metering system inside the tank.	Verify compliance with the indications printed on the tank label and with the comparative tables (abrasive grainsize / nozzle diameter / internal dosing system).
The blasting jet is not powerful	Unsufficient pressure. The 5my filter is clogged, unscrew the inspection cap and clean it. The solenoid valve is dirty: get in touch with Dentalfarm Technical Dept.

Problem: **NO ABRASIVE COMING OUT, INTERNAL LEAKAGE.**

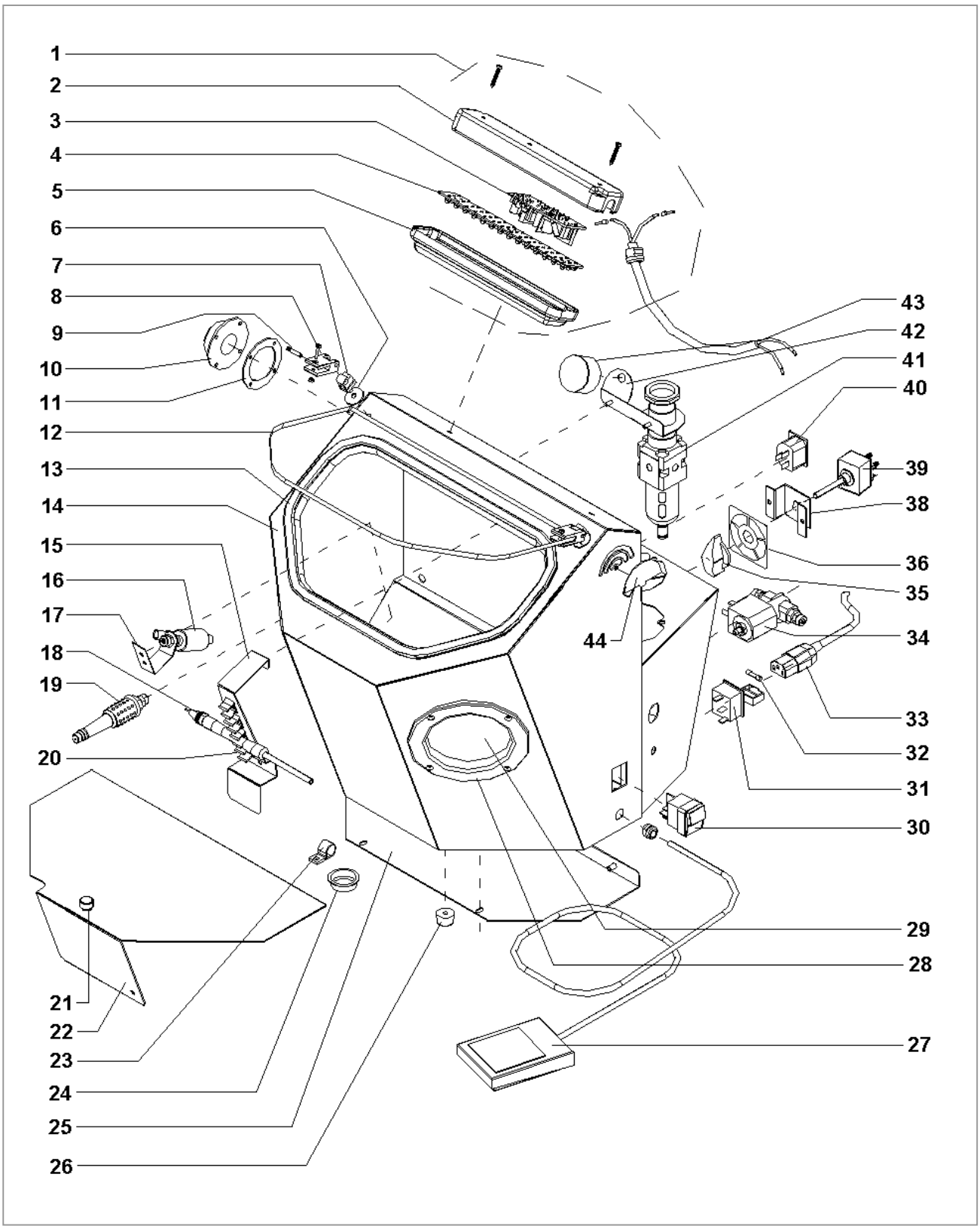
Possible cause	Remedy
Worn pipe-fittings or punched microprojector pipe.	The components of the circuit located after the tank - where the abrasive flows - are subject to wear. It is recommended to prevent any possible break by replacing these components each 6-12 months, according to the workload.

Problem: **ABRASIVE TANK IS NOT UNDER PRESSURE**

Possible cause	Remedy
Joints are not perfectly airtight	Check whether cap has been correctly tightened. Disconnect the tank from the machine, disassemble and clean it.

8. EXPLODED DRAWING AND SPARE PART LIST – BASE EVO table 1

NO.	CODE	DESCRIPTION
1	**1000534**	COMPLETE LED LIGHTING SYSTEM
2	**1072037**	LIGHTING SYSTEM BASE
3	**1072040**	ELECTRONIC BALLAST
4	**1072041**	42 LED CIRCUIT
5	**1072038**	LIGHTING SYSTEM COVER
6	**1069010**	PVC WASHER FOR HINGE
7	**1054019A6**	HINGE FIXED PART HOLE 6mm
8	**RCB016A**	HINGE MOVABLE PART
9	**RMBL028**	HINGE PIVOT
10	**RWA007**	SUCTION UNIT INLET
11	**RWA006**	JOINT FOR SUCTION INLET
12	**1072029**	POLYCARBONATE WINDOW
	1000532	CONF. x 6 GLASS PROTECTION SCREEN
	RCB042	PROTECTION SCREEN FIXING CLIPS
13	**1064015**	WINDOW JOINT
14	**1072021**	WORKING CHAMBER FOR BASE SANDBLASTERS
15	**1073011**	SUPPORT FOR 4 MICROPROJECTORS
16	**RS521**	COMPLETE DEVESTING PROJECTOR
17	**1072028**	BASE PROJECTOR SUPPORT
18	**1000605**	COMPLETE MICROPROJECTOR (specify colour and nozzle)
19	**NPS001**	RUBBER AIR BLOWER
20	**NEA123**	CLIP
21	**NVT151**	MALE KNOB M4x10
22	**1072025**	ABRASIVE GRID
23	**NEA115**	PLASTIC RING D. 14
24	**NVP030**	PLASTIC CAP D.=31
25	**1072024**	LOWER CLOSURE
26	**NVG049**	RUBBER FOOT H=19
27	**NEC050**	ELECTRIC FOOT CONTROL
28	**RCB017**	GLOVE FLANGE
29	**RCS130**	PAIR OF GLOVES
30	**NEC018**	PROTECTED BIPOLAR SWITCH
31	**NEA046**	PLUG AND FUSEHOLDER
32	**NEA071**	5x20 RAPID FUSE 6,3 A
33	**NEV013**	ELECTRIC CABLE 3x1 PLUG / SOCKET
34	**NES030**	3-WAY SOLENOID VALVE-220v
35	**NVT141**	GRADUATED KNOB
36	**1072032E**	BASE EVO SELECTOR SWITCH LABEL
38	**1069003**	SELECTOR SWITCH SUPPORT
39	**1000531**	5-WAY-SELECTOR SWITCH COMPLETE
40	**NEA047**	FEMALE SOCKET
41	**NPS029**	FILTER AND REDUCER 1/8
42	**1072026**	BASE/MICRA REDUCER AND PRESSURE GAUGE HOLDER
43	**NPS040**	PRESSURE GAUGE 0-6 1/8
44	**1072033**	BASE/MICRA COVER ON SUCTION INLET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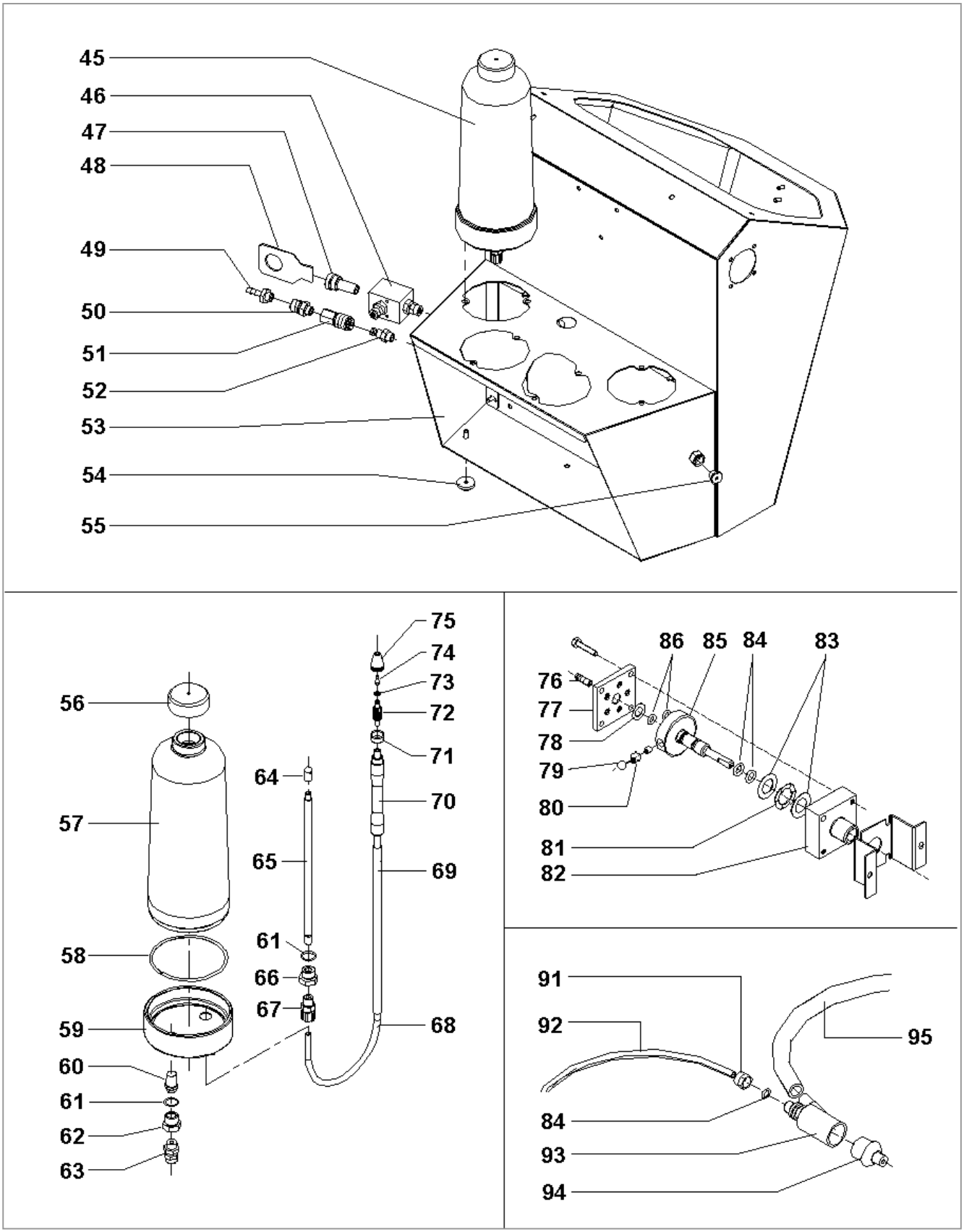
EXPLODED DRAWING AND SPARE PART LIST BASE EVO - table 2

NO.	CODE	DESCRIPTION
45	**100072N**	COMPLETE EASY TANK
46	**1072008**	FILTER CONTAINER
47	**1072009**	CAP WITH 5MY FILTER
48	**1072034**	KEY FOR 5MY FILTER - BASE/MICRA
49	**NPR220**	PIPE-FITTING 7 1/8
50	**NPR119**	STRAIGHT MALE PIPE-FITTING 8x6 1/8
51	**NPR303**	RAPID FEMALE CLUTCH 1/8
52	**NPR304**	MALE CLUTCH 1/8
53	**1072023**	HOLDER FOR 4 TANKS, BASE SANDBLASTER
54	**NVG048**	RUBBER FEET H=12
55	**NPR223**	MALE CAP 1/8
56	**NVT165**	FEMALE CAP G1
57	**1072003**	COMPLETE ABRASIVE TANK
58	**NPOR3300**	OR JOINT 3300
59	**1072002P**	NYLON/GLASS TANK BASE
60	**NPV020**	SINTERED AIR INJECTOR
61	**NPOR2043**	OR JOINT 2043
62	**1072004**	AIR BLOWER PIPE-FITTING
63	**NPR111**	STRAIGHT MALE PIPE-FITTING 6x4 1/8
64	**1072007**	TERMINAL CAP ON ABRASIVE CAP
65	**1072006**	ABRASIVE OUTLET CAP
66	**1072005**	ABRASIVE PIPE ASSEMBLY PIPE-FITTING
67	**NPR111P**	STRAIGHT PLASTIC PIPE-FITTING M 6x4 1/8
68	**NPV042**	SOFT POLYURETHAN PIPE 6x4
69	**NEV030**	SHEATH D.= 6
70	**1067005**	MICROPROJECTOR HANDLE
71	**1067022**	HANDLE WASHER (specify colour)
72	**1067006**	MICROPROJECTOR HANDLE
73	**NPOR2012**	OR JOINT 2012
74	**RMN043**	TUNGSTEN CARBIDE NOZZLE D.= 1,2
-	**RMN044**	TUNGSTEN CARBIDE NOZZLE D.= 0,8
-	**RMN045**	TUNGSTEN CARBIDE NOZZLE D.= 0,5
-	**RMN046**	TUNGSTEN CARBIDE NOZZLE D.= 2,0
-	**RMN047**	TUNGSTEN CARBIDE NOZZLE D.= 1,5
75	**1067007**	NOZZLE LOCKING RING NUT
76	**RM019**	PIPE-FITTING
77	**1073014**	5-WAY SELECTOR SWITCH LOWER CAP
78	**NVT047**	PS RING 8/14/0.2
79	**NVT020**	¼ STEEL BALL
80	**1027076**	SELECTOR SPRING
81	**NVT049**	FLAT SPRING
82	**1073012**	5-WAY SELECTOR SWITCH UPPER CAP
83	**NVT034**	PS RING 15/22/0.2
84	**NPOR2025**	OR JOINT 2025
85	**1073013**	5-WAY SELECTOR AIR DISTRIBUTOR
86	**NPOR2018**	OR JOINT 2018
91	**NPR118**	6x4 M10 RING NUT
92	**NPV040**	POLYETHYLENE PIPE 6x4
93	**RS019**	PROJECTOR BODY D.=1,5
94	**RS023**	NOZZLE D.=3,0
95	**NVG011**	TRANSPARENT RESIN PIPE 8x12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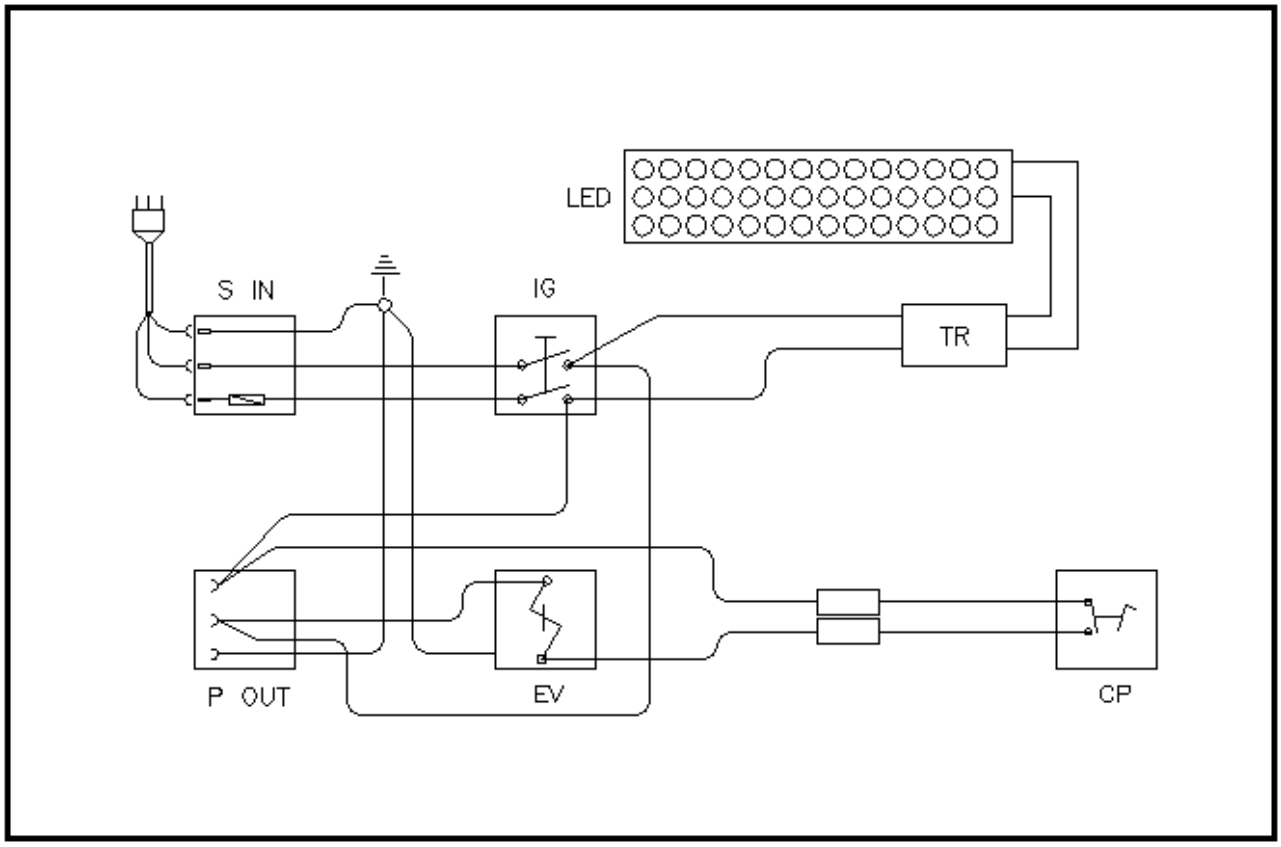
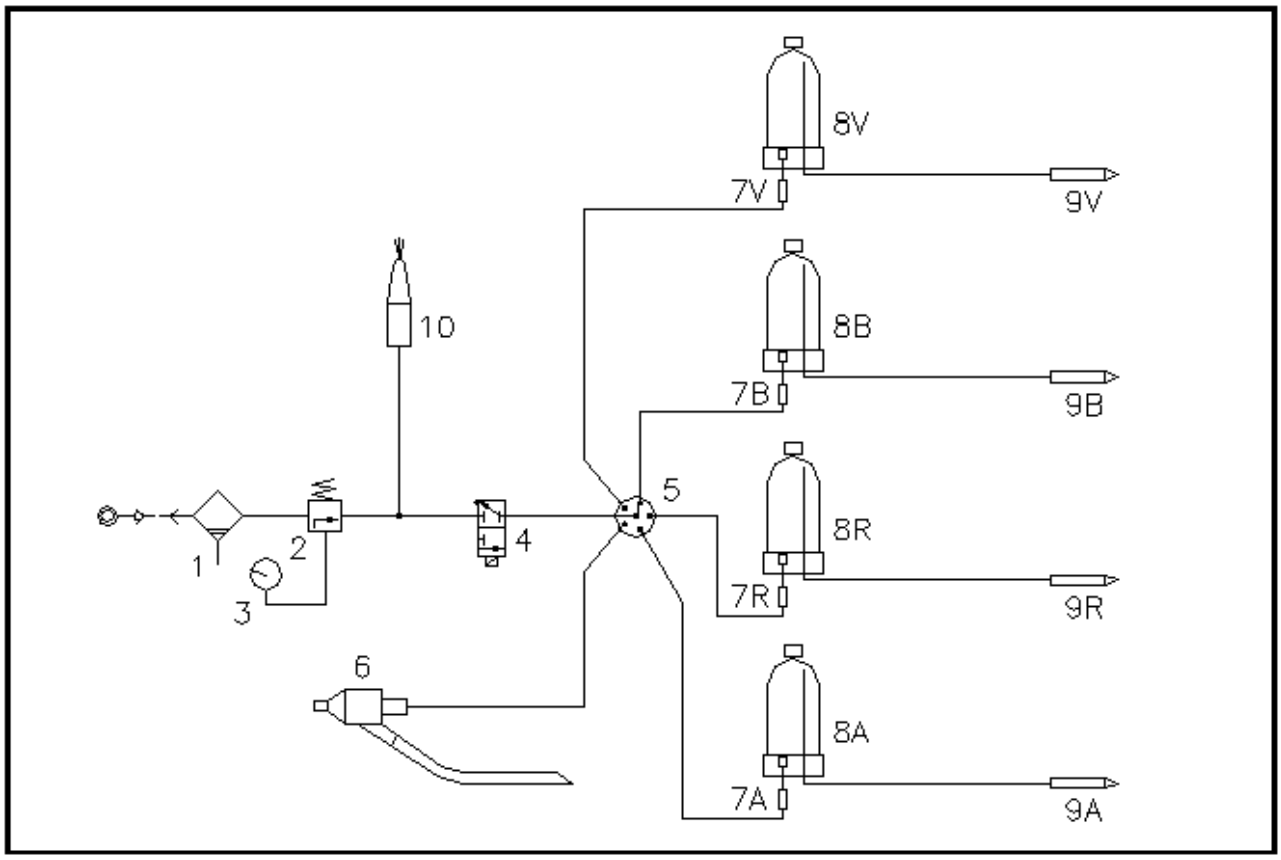
9. WIRING DIAGRAM



NO.	DESCRIPTION
S IN	PLUG AND FUSEHOLDER UNIT
IG	MAIN SWITCH
TR	ELECTRONIC BALLAST
LED	LED CIRCUIT
EV	3-WAY-SOLENOID VALVE
CP	ELECTRIC FOOT CONTROL
P OUT	FLUSH-MOUNTED SOCKET for DUST EXTRACTOR

10. PNEUMATIC CIRCUIT



NO.	DESCRIPTION
1	AIR FILTER
2	PRESSURE REDUCER
3	PRESSURE GAUGE
4	3-WAY-SOLENOID VALVE – MANUAL BLASTING
5	SELECTOR SWITCH
6	BLASTING PROJECTOR
7	5 MY FILTER
8	MICROBLASTING TANK
9	MICROPROJECTOR
10	AIR BLOWER

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