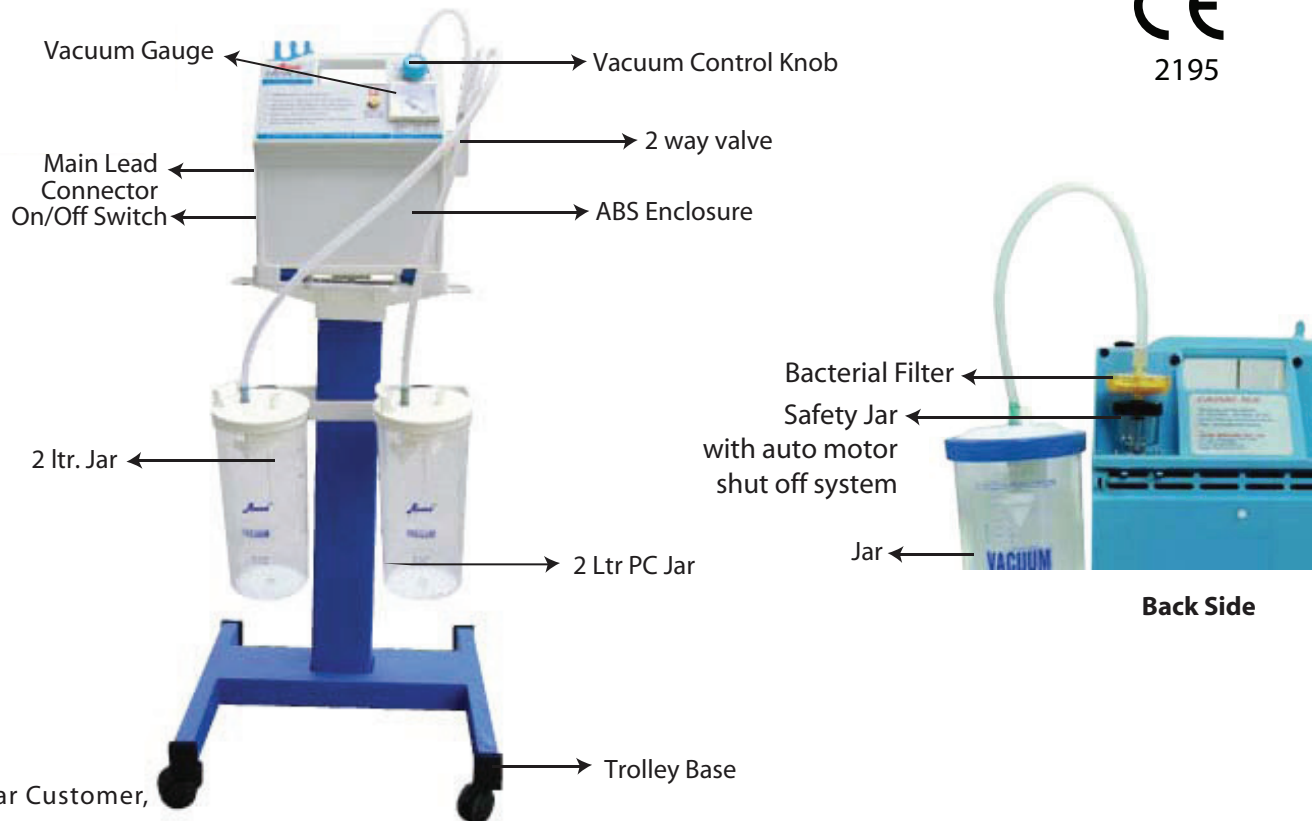


Instruction Cum User Manual For **EUROVAC ELITE**



Dear Customer,

Congratulations on your purchase of this versatile and need oriented suction unit. It will serve you well for years, if properly looked after. The medical profession have long felt the need for a lightweight, yet powerful easy-to-move unit on castors with brake mechanism, a safe, and dependable suction unit.

EUROVAC ELITE fills this healthcare need to a degree unmatched by any other unit. It is designed for use in hospitals, operation theaters, nursing homes etc. Non corrosive and shockproof enclosure is pressure moulded in engineering plastic ABS giving smooth and easy-to-clean surface.

ASSEMBLY

The pump is housed in the enclosure. To fasten it well with the base two black head screws (used as holdfast for transportation at the bottom of the unit) MUST be removed by rotating anticlockwise with the aid of a simple hand tool.

Unpack the 5 cartons which contain

1. Trolley base with 5 legs and castors and trolley top
2. Pipe complete
3. 1 PC Jar
4. 1 PC Jar
5. Main Top unit EUROVAC

Install the pipe complete (portion marked bottom) onto the trolley base with the help of 2 allen bolts (fitted in the pipe bottom portion). Tighten it from below the base.

Remove the two hexa bolt fasteners and four nuts from below the top unit (Eurovac). Fix the top plate on pipe and place the unit on the trolley top. Tighten the top unit on trolley top with these four hexa nuts from below the trolley top.

Two way valve is slipped into the side anchor. On the back of the top unit is fitted the safety jar and into it the bacterial filter which is connected to the middle slot of the two way valve. The side slots are connected to the middle slot of the two way valve. The side slots are connected to the two nozzles on the jar lids. The other nozzles in rotation are for 'Patient' connector on the two jar lids.

Plug the cord into the main unit (socket on side) and the unit is ready for use.

TECHNICAL

Housing: Engineering moulded ABS plastic box

Capacity: -700 mm Hg \pm 10 Vacuum, 35 Ltrs / min.

Pump Type: Double diaphragm pump

Jar: Wide mouthed 2 x 2.5 Ltrs. (Polycarbonate) with two-way changeover lever and safety jar with mechanical / electronic overflow motor shut-off system and autoclavable bacterial filter.

Tubing: 8 mm ID x 2 mtr (Silicon)

Vacuum Gauge: 6.25 cms (2.5 inch). 0-760 mm Hg calibration.

Power: 220 V, 50 / 60 Hz, 125 watts. (110 V on request)

Dimension & Weight: 46 x 42 x 111 cms. 15.6 kg

Controls on working height with extra pedal-operatable switch.

Trolley with non-marking castors having brake facility.

VACUUM AT ALTITUDES

The specified maximum vacuum refers to sea level. According to local conditions, and barometric pressure, slight deviations in vacuum reading may be noted. As a reference, the table below shows several factors, by which the indicated maximum vacuum value must be multiplied, according to the altitude of location where the measurement is carried out.

Location/Maximum Vacuum

Location	Sea level	1000m	2000m	4000m
Factor	1.00	0.88	0.78	0.60

Before the unit is put on please see that :

1. 'O' rings on push-in connectors and safety jar arm are not worn out.
2. Jars are checked for possible crack or flawed spots. Any defect can result in implosion under vacuum.
3. Check the bacterial filter, and change the filter element if necessary. The housing must be flip tightened. The safety jar with two 'O' rings must be well inserted in the holder.
4. The lids and tube are tightly placed on the jars. To avoid leakage, the push-in and angular connectors must be inserted as far as the stop. While unplugging, twist and pull.
5. The main power supply is well earthed. In case of fluctuation, use voltage stabilizer/corrector.
6. The vacuum control knob is not loose. It must be fully tightened clockwise

GUIDELINES FOR USE

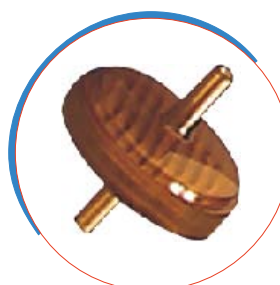
Negative Pressure: After each use, lids overflow cut-off valve, suction cannulae, catheters etc. should be cleaned thoroughly. When sterilization is necessary after infective fluid has been sucked, the jars, the lids, cut-off valve and metal cannulae can be sterilized by autoclaving and the tubing, by sterilizing solution.

Jars/Tubings: The material of the jars polycarbonate (PC) is superior to glass. It is less fragile when subjected to impact and less sensitive to temperature shock. PC is resistant upto 120°C provided. it is not subjected to any physical loading. As the flow rate is high 3/4th filling of the jar is recommended. The lid has a built-in antifrothing device. The jars are easier to clean if a little water or disinfectant is put into them prior to suction operation. The safety jar must, however, remain dry. Tubing after repeated use can be brittle and must be changed.

Cleaning and Disinfecting: After each use, jars, lids, overflow cut off valve, catheters, etc. should be cleaned thoroughly. When cleaning is necessary after infective fluid has been evacuated, the jars, lids, cut off valve and tubing can be sterilized by autoclaving upto 120° C for 20 minutes. Alkaline cleaning agents and disinfectants based on phenyl may not be used. Adherence to hospital directives on hygiene is of prime importance. The instructions provided by the suppliers of cleaning agents as well as by the manufacturers of sterilization and/or disinfection units must also be followed, where application, temperature, process duration and airing, etc. are concerned.



2 Ltr PC Jar



Bacterial Filter

PUMP

The unit is fitted with a dual head pump based on the diaphragm system. The finest diaphragms suck and throw air through the two specially-designed (Fly) umbrella valves. The life of these three rubber parts is 400 to 800 working hours, subject to the proper following of the instruction.

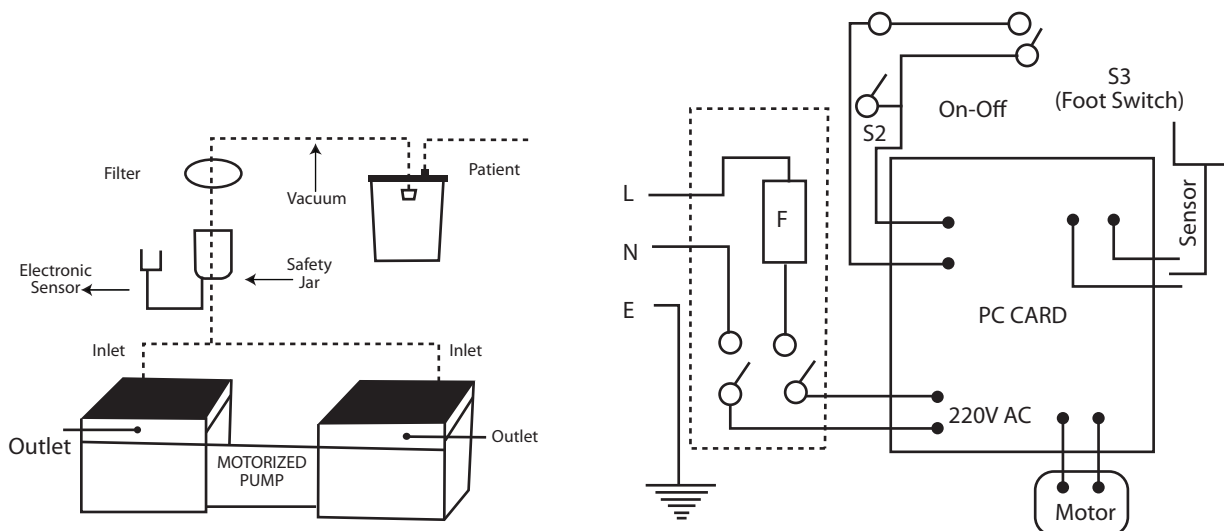
- To reach the pump, open the back plate of the unit with the aid of an allen key provided. The pumps are marked INLET (vacuum) with green stickers and OUTLET (Exhaust) with red stickers. The plates of the pumps are marked 4, 3, 2 and 1. Disconnect the tube from the combined inlet on the pump housings.
- Unscrew the two hexa bolts from the bottom of the unit and take out the motorized pump fitted on (and together with) the platform.
- The fly valves are placed between plates 4 and 3, tucked on the center pins on plate 3. The plate No 2 holds the top of the diaphragm fitted on the crank shaft (with bearing) moving on the motor shaft.
- All the plates are to be assembled in such a way that the green stickers are on one side of the two pump housings and the red ones on the other sides.
- Please run the unit and see its satisfactory functioning before the back plate is screwed up.



Motorized Pump

Unlike the rotary design, NO LUBRICATION IS REQUIRED IN THIS PUMP.

The unit has not to be tampered with by any mechanic other than our factory engineer, or the person authorized.



TROUBLE SHOOTING:

Problem	Possible source of trouble	Check/Action to be taken
Motor does Not Run	Power Supply	Voltage, power socket
	Main switch	Set at "ON"
	Electrical cord	Plug type, plug connections, damaged cord
	Check if the safety jar is activated. Open the safety jar, clean & dry the jar and replace the cap for re-use	
	The blood has entered the pump. The remedy is given above under pump cleaning	
Inadequate Suction Performance	Leak within the pump or in the external suction circuit	Isolate the source of trouble by carrying out the checks outlined.
	External cause:	
	Push-in connector O-rings/Lid gasket	Condition
	Safety jar O-rings	Condition
	Push-in angular connectors	No Leaks at tube ends. Push in as far as stop.
	Release Valve	The Knob should be tightly placed
	Tubing	Cracks, brittle areas
	Lids	Airtight fit jars and Safety jar
	Jars	Condition, Possible cracked edges, hairline cracks
	Bacteria filter housing on Safety jar top	Condition and absence of leaks
	Filter paper	Condition, position of housing
Vacuum gauge indicates a vacuum Pump does not suck, however	Blockage or kink in tubing within the pump or in the external suction circuit	Isolate source of trouble as follows: Remove the safety jar, leave the suction connection open. If the vacuum gauge now indicates zero vacuum, the cause is external
	External cause: Bacteria filter, safety jar, overflow valve in the lid, (float valve) push-in connectors, tubing etc.	Investigate the whole external suction circuit for blockage (s), float valve sticking, kinked tubing and rectify. If the vacuum gauge still indicates a vacuum, the cause is internal

TERMS OF WARRANTY

Anand Medicaids Private Limited warranty the high quality and workmanship of each Anand's HI-VAC for a period of one year subsequent to the date of delivery by the company. During this period, faulty material will be replaced free of charge. This warranty does not extend to components that are subject to wear and tear in the course of normal operation or due to improper treatment/maintenance as per instructions.

Further conditions in accordance with international standard IEC 601.1 item 6.8.2b.

The manufacturer is only responsible for effects on the safety, the reliability and the performance of the appliance if

- Installation, additions, adjustments, modifications or repairs are carried out by personnel authorized by the manufacturer
- The electrical installations within the room concerned satisfy the requirements laid down by IEC.
- The appliance is used in full accordance with the instruction manual which is solely a guide and no substitute for professional training. The safe and effective use of this product largely depends on the skill of the operator. We are not liable for any damages due to mishandling or improper and unauthorised use.
- The company reserve the right to change technical specifications, designations and catalogue numbers without prior notice.

Note

Ensure that your electrical wirings are well earthed with 1 line and 1 neutral phase and your voltage is between 220V 240V. 50 Hz.

Ensure that the suction unit should not be lifted above human body level.

Dispose of used product/packaging in safe manner so as not to harm stray cattle, children and environment.

WARRANTY CARD

Model No. _____

SN _____

Date of Purchase: _____

Dealer Name: _____



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EC REP

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Stamp :