

# MaxVac<sup>TM</sup> Pump

## Owner & Operator's Manual

**Model No:**

9494198

9494199

**Voltage:**

100-120V 50/60Hz

230V 50/60Hz

**DESCRIPTION**

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Your vacuum pump is a precision piece of machinery that will give trouble-free service if used with reasonable care.

### **WARNINGS**

- **DANGER:** To prevent explosive hazard, DO NOT pump combustible liquids or vapors with these units.
- **WARNING:** The motor is thermally protected and can automatically restart when the protector resets. ALWAYS disconnect power source before servicing.
- **IF YOUR PUMP IS EQUIPPED WITH PLASTIC PLUGS IN THE EXHAUST AND/OR INTAKE PORTS, REMOVE BEFORE STARTING THE UNIT.**
- Store pump in original shipping carton with inserts. This will protect pump and keep it clean. It may also prevent damage due to improper storage.
- Do not, at any time, lubricate any of the parts with oil, grease, or petroleum products nor clean with acids, caustics or chlorinated solvents.
- Do not operate the pump outdoors in the rain or use near flames.

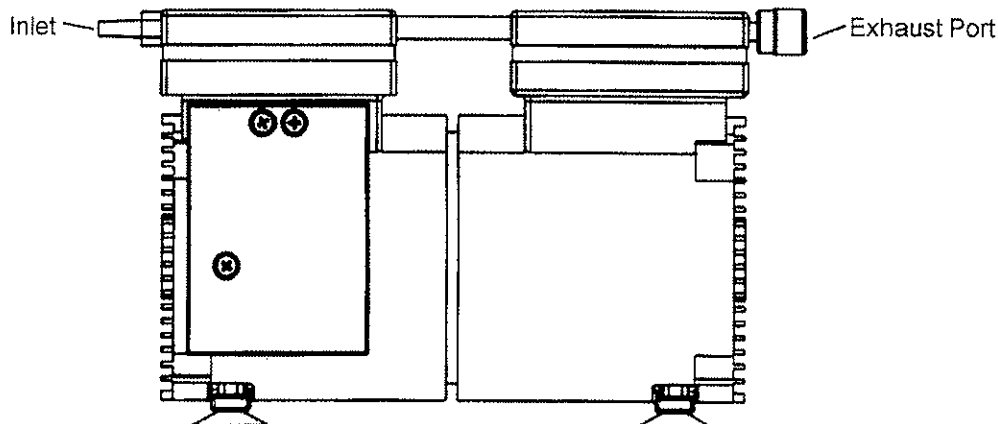
### **FACTORS AFFECTING VACUUM PUMP PERFORMANCE**

Your vacuum pump is capable of pulling a vacuum of 740mm Hg (29") at sea level (760mm). For each 300 meters (1000') of elevation the pump's maximum vacuum level is reduced by 25mm (1"). Thus, if the pump is operated in an area 300 meters (1000') above sea level the maximum obtainable output would be 715mm Hg (28") of mercury.

Another way to look at the vacuum level is by using the barometric pressure at your location. Your vacuum pump will pull a vacuum that is about 25mm Hg (1.0") less than the barometric pressure on any given day. If the barometer reading in your area is 750mm (29.5") you may expect a maximum vacuum pump output of 725mm (28.5"). The barometric pressure varies daily.

### **SETUP INSTRUCTIONS**

1. Locate the pump below the Vacuum furnace. Mounting of the pump above the furnace will cause any water condensation in the lines to flow back into the furnace.
2. Remove plastic covers from inlet and exhaust ports. Screw in the inlet fitting and exhaust muffler before operating the pump. The pump may be damaged if covers are not removed.
3. Install feet and tighten using the provided nuts.
4. The pump should be mounted horizontally.
5. Connect the vacuum line from the furnace to the inlet of the pump.  
(a) Force the tubing over the inlet fitting.
6. Connect the pump's power cord into the electrical outlet on the back of your DENTSPLY NeyTech furnace. This will allow the furnace to operate the pump when vacuum is called for in a cycle.



## SPECIFICATIONS

Dimensions:	276mm (12.75") L x 159mm (6.25") W x 211mm (8.3") H
Pumping Flow:	72 L/min, (2.5 CFM) with 50Hz supply 90 L/min, (3.2 CFM) with 60Hz supply
Ultimate Pressure:	20 mm absolute
Voltage:	100-120V 230V
Power:	300 Watts
Thermal Protector:	Auto Reset
Pump Weight:	9.5Kg (21lbs)
Shipping Weight:	10Kg (22lbs)

## MAINTENANCE

The pump is maintenance free. No oil lubrication is required.

## TROUBLESHOOTING

Fault	Possible Cause	Remedy
1. Pump won't start	a. No main power supply b. Low voltage c. Capacitor defective d. Full vacuum in piping e. Motor defective f. Thermal protector switch on	a. Check main power b. Check voltage c. Check capacitor, replace if necessary d. To install a vacuum break valve, or order pump with restart movement from us e. Return for factory repair f. Wait for pump to cool down, then it will restart automatically
2. Pump doesn't reach ultimate pressure	a. Pipes, hoses or connections leaking b. Inlet filter or exhaust filter dirty c. Cylinder or cup seal defective d. Plate valve defective e. Vacuum gauge defective	a. Check and seal or renew b. Clean filter cartridge, or replace with a new one if necessary c. Renew cylinder or cup seal d. Replace valve e. Use correct measuring vacuum gauge
3. Pump is excessively noisy	a. Damaged bearing b. Plate valve defective c. Cylinder or cup seal defective d. Vibration being transferred to enclosure	a. Factory repair b. Replace valve c. Renew cylinder or cup seal d. Use suitable anti-vibration mounting
4. Pump gets too hot	a. Cooling air supply is obstructed b. Ambient temperature is too high	a. Set pump in well ventilated area b. Set pump up in cooler area

## PRODUCT SERVICE

If the unit requires service, contact the service department at your dealer or DENTSPLY NeyTech, Yucaipa, California. Describe the particular problem and give the serial number of the pump.

### BEFORE RETURNING THE PUMP, DO THE FOLLOWING:

1. The original packing material should be used for the return shipment.
2. Call DENTSPLY NeyTech for a RMA number (Return Material Authorization). This is used to track and identify your pump. Material received without this number may not be identifiable.
3. Equipment damaged in shipment as the result of improper packing may not be repaired at the expense of the carrier. DENTSPLY NeyTech will not be responsible for damages resulting from improper packing.

Ship Prepaid To:	DENTSPLY NeyTech
	Equipment Division
909-795-2461	RMA Number _____
FAX 909-795-5268	13553 Calimesa Blvd.
	Yucaipa, CA 92399-2303 USA

## WARRANTY

**WARRANTY:** Except with respect to those component parts and uses which are hereinafter described, DENTSPLY NeyTech warrants this vacuum pump to be free from defects in material and workmanship for a period of one year from date of sale. DENTSPLY NeyTech's liability under this warranty is limited solely to repairing or, at DENTSPLY NeyTech's option, replacing those products included within the warranty which are returned to DENTSPLY NeyTech within the applicable warranty period (with shipping charges prepaid), and which are determined by DENTSPLY NeyTech to be defective. This warranty shall not apply to any product which has been subjected to misuse; negligence; or accident; or misapplied; or modified or repaired by unauthorized persons; or improperly installed.

**WARRANTY EXCLUSIONS:** The warranty described in paragraph 1 does not include normal wear of DENTSPLY NeyTech's products or its components.

**INSPECTION:** Buyer shall inspect the product upon receipt. The buyer shall notify DENTSPLY NeyTech, in writing, of any claims of defects in material and workmanship within thirty days after the buyer discovers or should have discovered the facts upon which such a claim is based. Failure of the buyer to give written notice of such a claim within this time period shall be deemed to be a waiver of such claim.

**DISCLAIMER:** The provisions herein stated DENTSPLY NeyTech sole obligation and exclude all other remedies or warranties, express or implied, including those related to MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE.

**LIMITATION OF LIABILITY:** Under no circumstances shall DENTSPLY NeyTech be liable to the buyer for any incidental, consequential or special damages, losses or expenses.

**LIMITATION OF ACTIONS:** The buyer must initiate any action with respect to claims under the warranty described in the first paragraph within one year after the cause of the action has accrued.



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