



## NUMATIC - NTT 2000

# Operator Instructions

**NOTE:** As with all electrical equipment, care and attention must be exercised at all times during its use, in addition to ensuring that routine and preventative maintenance is carried out periodically in order to ensure its safe operation. In particular the electrical supply cable and flexible hose should be regularly inspected by a competent person and immediate action taken to rectify any faults found. Failure to carry out maintenance as necessary, including replacement of parts to the correct standard, could render the equipment unsafe and the manufacturer can accept no responsibility in this respect. See the enclosed exploded drawings for correct replacement parts.

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### MACHINE COMPONENTS

#### Powerhead

The 3 vacuum motors are housed within the epoxy coated steel head. To start the vacuum, there are 2 switches - one on the front of the handle assembly, and one at the rear. First activate the front switch. This will start two motors. Then activate the rear switch to start the third motor. This system is used to reduce the start-up current that would be required if all motors started at the same time. It is NOT recommended to use the vacuum without all three motors running. If one or two motors are not running, air will be drawn into the vacuum through the exhaust side of the remaining motors. This will dramatically reduce the performance of the vacuum system.

The powerhead is removed by lifting up on the 4 steel toggles and releasing the claw from the rim of the powerhead.

The exhaust port of the vacuum is equipped with a screw on diffuser to divert the exhaust airflow. This may be removed if required. Also it is possible to fit an exhaust hose to divert the processed vacuum air to another area. For this it is recommended to use the shortest 2" Numatic hose possible, and to increase the diameter to proprietary exhaust hose as soon as possible to reduce back pressure.

## **Standard Dry Filters**

The NTT 2000 is normally equipped with a 2 stage main filter assembly. This consists of a red Filtrex filter providing 5.0 micron filtration and a white Permatex 0.5 micron filter.

As these become loaded with dirt & debris during use, they should be removed periodically and brushed to remove the gross soil. Both filters can be washed in mild detergent & hung to dry.

## **Optional HEPA Filter Module**

As an optional accessory, the NTT 2000 may be fitted with a HEPA filter module. When this filter is used it must always be used with a Permatex filter as a pre-filter. Failure to do so will drastically reduce the working life of the HEPA filter.

As a safety precaution in sensitive areas, it is possible to secure the HEPA filter module to the powerhead by using split pins. These can be inserted through the holes in the steel retaining toggles once they are closed.

The HEPA filter is capable of filtration to 99.97% even if the intake of the machine is completely blocked.

The code for the replacement filter is NVM 25B. Replacement of the HEPA filter must be carried out by qualified personnel.

## **Optional Wet Filter Assembly**

The NTT 2000, while normally supplied as a dry only machine, may be fitted with a wet filter assembly since it is equipped with by-pass type motors. This assembly includes a float ball which rises up when fluid levels reach the maximum capacity of the vacuum tank. When this occurs, the pitch of the vacuum motors increases indicating that the vacuum should be turned off and the container emptied.

When using the wet filter assembly it is possible to place the main dry filters on top of this assembly to protect the vacuum motors from any dry debris encountered during wet cleaning operations.

If the machine is to be used with the optional HEPA filter module in a wet application, it is essential that the main dry filter assembly is used. Otherwise the working life of the HEPA filter will be drastically reduced.

## **Vacuum Tank (Nutec Drum)**

The recovery tank of the NTT 2000 is made of galvanized steel to help prevent corrosion. The intake is mounted so that debris enters in a tangential fashion to enable "cyclonic" separation of dusts from the airstream. To remove fluids from the machine,

release the drain hose from the steel bracket on the handle of the cart and push the "ball" from the hose closure device away from the hose opening. Lower the drain hose into a container or floor drain. To empty dry debris, simply remove the powerhead and filters and then release the steel toggle at the rear of the machine. This allows the Nutec drum to be removed from the cart. The drum is equipped with carrying handles on the side to facilitate lifting.

After wet use it is recommended to allow the drum to dry out before storage.

### **Transport Chassis**

The NTT 2000 is supported by a 4-wheeled stainless steel chassis. This will carry the full weight of the machine and recovered debris. The front of the chassis has a horizontal bar with two punched holes in it. This is to allow wide area wet or dry cleaning kits to be fitted to the machine.

### **Accessories**

The NTT 2000 is equipped with a reducer on the intake to allow the use of all standard 1 1/2" and 2" Numatic accessories. If the 3" accessories are required, the reducer can be removed by lifting the retaining pin and sliding out the reducer. The 3" steel hose collar will then fit into the intake of the vacuum. It is NOT recommended to use any of the 1 1/4" accessories as this substantially reduces the airflow performance of the machine

### ***WARNINGS***

If used for any potentially hazardous or health endangering material recovery, do not use the machine unless the full filtration system is fitted. Failure to fit the complete system may cause premature clogging of the HEPA filter cartridge and may also endanger health.

Do not use the machine in corrosive or flammable environments.

Do not use this machine for the collection of explosive dusts.

When operating the machine in contaminated environment, always use protective respiratory equipment and suitable approved personal protective clothing.

### ***IMPORTANT***

This machine may be equipped to handle hazardous dusts. This is only possible if fitted with a HEPA filter module. Always take caution when emptying the machine as the dust found in the container may be hazardous to your health.

If the machine will not run, check that it is switched on and that power is available. If the machine stops in use and restarts after a time, the high temperature cut-off device may be activated. This may be indicative of blocked main filters, a blocked HEPA filter or blocked hoses.

### ***Servicing***

Any servicing required should be carried out by qualified personnel.

Do not attempt to clean the microfilter cartridge. If it becomes excessively clogged, fit a new unit. Take care when fitting the new cartridge not to handle or rupture the paper element as this will affect the filtration efficiency of the machine. Care should also be used in disposing of the old cartridge.

Always use genuine Numatic parts for any repairs required.

**1205 Britannia Road E., Mississauga, Ontario, Canada L4W 1C7**  
**Tel: (905) 795-0122 Fax: (905) 795-0038**  
**U.S. Toll Free Tel: 1-800-387-3210 Toll Free Fax: 1-800-709-2896**