

Mobile High Pressure Super Sucker Machine For Cleaning Sewer Line and Storm Water Drain



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IPWT, the renowned name in sewer cleaning and storm drain cleaning systems, now offers time and cost-saving, maintenance-free, vehicle-mounted, PTO (power take-off) driven **AIRVACJET® Super Sucker Machines**.

AIRVACJET® is a product of IPWT's in-house development program, that has over the years earned an reputation for designing products of specialised use and lasting value.

AIRVACJET® is custom-made so as to snugly fit onto any commercial vehicle chassis.

AIRVACJET® is especially designed to make the task of cleaning and maintenance of sewer and storm water drains, easy and effective. **AIRVACJET®** cleans sewer and storm water drains in dry and wet conditions by a combination of jetting and suction actions, taking place simultaneously. The blockages and settled sludge materials in the pipelines are blasted-out by high pressure jets and collected towards the manhole from where it is sucked into a Dump tank. The sludge material is then discharged at the right place in an environmentally friendly and Hygienic manner.

AIRVACJET® consists of two tanks (a water tank and a sludge tank), or alternatively two vehicles (Super Sucker unit and Dump Tanks), a high pressure water jet pump and a high flow jetting blower or vacuum pump for suction. The power to the pump is given from the truck engine through PTO and the blower is powered through a separate engine or a combination of both, the PTO and the engine. Low noise operation is due to blower inlet and outlet silencer, engine exhaust silencer and acoustic enclosure.

AIRVACJET® machines are custom-made in capacities depending on gross vehicle weight (GVW) of truck chassis (suggested tank capacities : jetting-4500 lts. to 7000 lts. on 25 ton GVW chassis and 10000 lts. Sludge Dump tank on 16 ton GVW chassis).

AIRVACJET® totally satisfies the underground cleaning needs of municipalities and sewer authorities, industrial plants, military and utility companies....all at once for dry as well as wet cleaning.

Maintenance is virtually nil for these rugged machines and at the time when they need to be serviced, our after sales service is just a phone call away!

1. **AIRVACJET® Super Sucker Unit** (jetting-6000 lts. ; on 25 ton GVW chassis ; supplied to Kolkata Environmental Improvement Project in 2013.

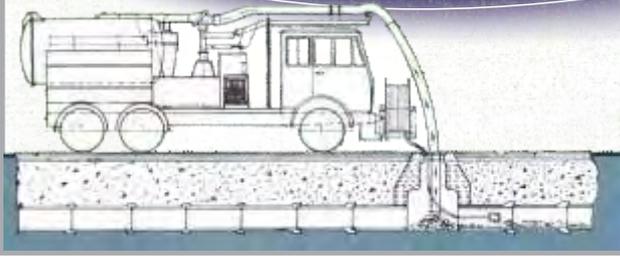
2&3 **Maxi-size 2 nos. Dump Tank for Super Sucker Unit** (2000 ltr. Water and 8000 ltr. Sludge); on 16 ton GVW chassis ; supplied to Kolkata Environmental Improvement Project in 2013.



MAINTENANCE EQUIPMENT

drainage

Schematic diagram showing **AIRVACJET®** performing a combined suction and jetting operation from deep manholes which are inaccessible to manual labour and also dangerous due to toxic gases present in the drain



A SIMPLE CLEANING PRINCIPLE :

The **AIRVACJET®** Combination Machine is driven and positioned near the manhole which is to be cleaned. Jet hose reel are positioned such that they are vertically above the manhole. The required number of suction hose segments are connected to the suction point and the Snorkel is dipped inside the manhole to the bottom. The jetting hose, fixed with a nozzle, is positioned into the mouth of the drain and jetting pump is started to create high pressure jet. The auxiliary engine is started to drive the blower to create High Flow Suction in the dump tank. The jet nozzle runs through the drain pipe breaking all blockages and settled debris and pulling all sludge and other obstructive materials towards the manhole from where it is sucked into Dump tank.



NOZZLES AND CUTTERS



THE HEART OF EVERY AIRVACJET® COMBINATION MACHINE :

The heart of every **AIRVACJET®** is provided by quality **MYERS (USA) / PRATISSOLI POMPE (Italy)** Jetting Pump and **ROBUSCHI S.P.A. (Italy)** or equivalent imported robust Trilobe High Flow blower. Designed for utmost in capability and output, these blowers deliver greater amount of high flow vacuum and exceptionally high vacuum for efficient sewer cleaning in dry as well as wet conditions and require negligible maintenance.

ROBUSCHI S.P.A. (Italy), with over 60 years of history are capable of combining, in the best possible manner, their experience with the most advanced of technological innovations in manufacture of various range of Trilobe Blower and accessories.

We may point out here that our Jetting system has imported triplex pumps from **MYERS, U.S.A.** known for over 150 years. This pumps have been offered in all Sewer Cleaning Units supplied by us till date in India.



DRAIN CLEANING : A CLOSER LOOK

ADVANTAGES :

- Single combined machine for both, jetting (clearing blockages) and suction (sucking up the cleared debris) in dry as well as conditions from deep sewer / drains
- Can clean sewer lines, storm drains, cess pits, septic tanks, where normally manual cleaning is impossible due to inhuman conditions and poisonous gases
- Maintenance is virtually nil for the first few years
- Cleans blockage from the most inaccessible points
- Reduction of labour-oriented method of cleaning, thus upgrading dignity of labour
- Can be customised to suit any client's requirement
- Can earn immense revenue for the client, thereby offsetting the cost of the machine
- Easy to operate as no special skill is required



Winner of the prestigious 'National Award for Import Substitution' in 1982 for Garbage Compactor



Dun & Bradstreet Rating : SE2A "High Performance Capability and High Financial Strength"



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