

MINI VACUUM SYSTEM

An Oil Spill Response Product

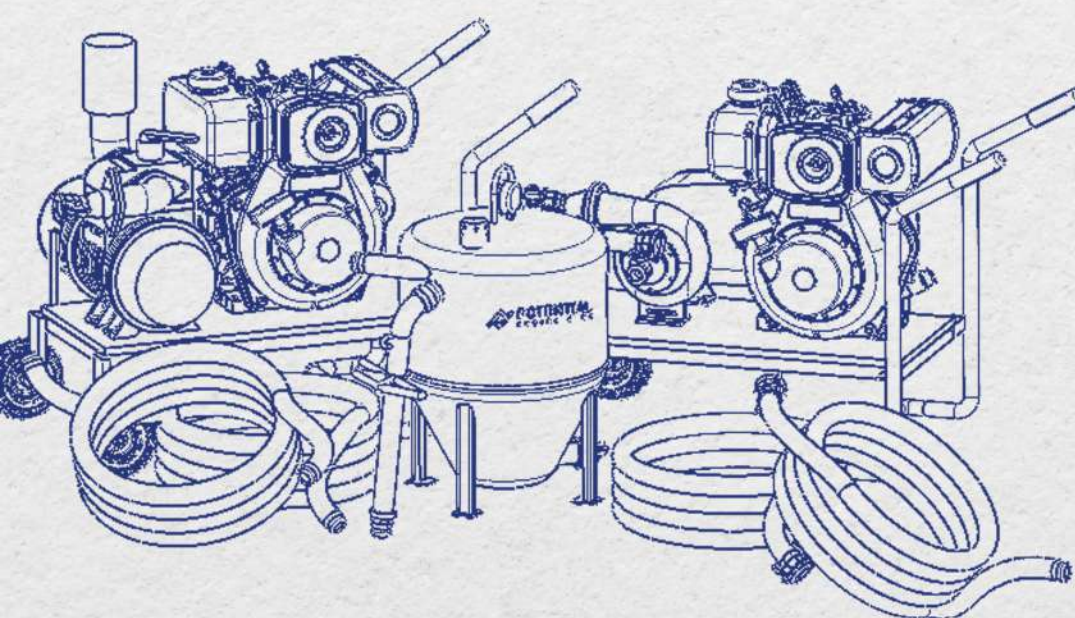


MINI VACUUM SYSTEM

The Mini Vacuum system is perfect for beaches, pipelines, and industrial sites. It efficiently retrieves liquids, oils, sludges, and debris from any terrain. Its vacuum tank/drum includes a vacuum head with essential features like a vacuum gauge, relief valve, and automatic shut-off to prevent overfilling. A powerful vacuum pump/blower extracts substances, while a transfer pump moves them to the designated sump/pit. Both pumps are powered by a diesel engine or electric motor. The system's trolley-based design ensures effortless deployment and on-site operation.

Our Mini Vacuum system specializes in recovering oil and debris from diverse terrains, perfect for emergency oil spill clean-ups. Featuring a lightweight, easily lifted vacuum tank/drum, it includes essential components like vacuum and transfer pumps, relief valve, hoses, and accessories. This portable system is the go-to solution for various locations, including beaches, ponds, harbors, and industrial pits, offering versatility and efficient clean-up capabilities.





ABOUT PROBLEM



Clogging and Blockages

The system may encounter clogging or blockages due to debris or thick oil consistency, affecting its suction capability.



Maintenance

These systems could face maintenance issues due to prolonged use or exposure to harsh conditions during oil spill responses.



Handling and Mobility Issues

During an operation at site, it becomes difficult to handle by one person and mobility issues are faced by the operation team.



Power Source Dependence

Reliance on power sources (such as batteries or generators) could limit operational duration or adaptability in remote areas without power access.

OUR SOLUTION

Vacuum Pump

A vacuum pump generates partial vacuums by expelling gas from sealed chambers.

Hopper

The vacuum hopper is engineered to endure significant vacuum levels without collapsing, ensuring robust functionality in vacuum-based systems.

Transfer Pump

The transfer pump facilitates the movement of oil or liquids from the vacuum tank to the designated sump or pit, enabling efficient fluid transfer within systems.

Diesel Engine

The diesel engine powers both the vacuum pump and transfer pump, with its cooling method, air or water depending on its capacity for efficient operation within systems.

Suction Hose

Suction hoses, crucial for vacuum-based fluid extraction, come in hard and flexible types made from PVC steel wire reinforcement and TPU spiral for varied operational needs.

Suction Lance

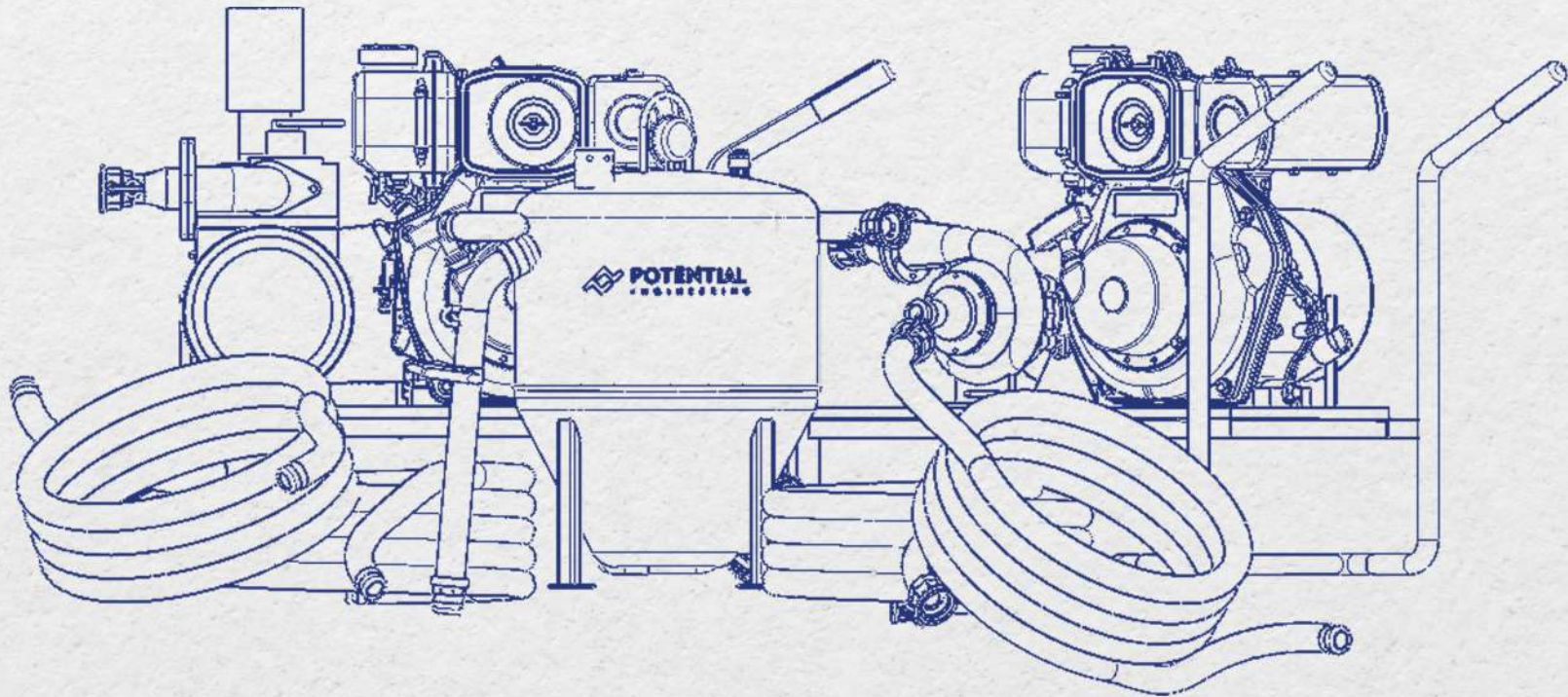
A suction lance is a specialized technical tool devised explicitly for extracting fluids/ debris from spill areas, enabling efficient liquid retrieval and containment.

Transfer Hose

Transfer hoses, constructed from rubber, PVC spiral, PVC steel wire, and TPU spiral, offer versatility in conveying materials across diverse applications.



MODEL SELECTION MATRIX



VACUUM TANK	Hopper / Drum
MOC OF VACUUM TANK	AL / MS / SS
HOSE PORT SIZE	2" / 3" or higher size on request
VACUUM BY	Vacuum pump / Blower
VACUUM RANGE	760 to 10^{-3} torr (1 to 1.3×10^{-6} atm)
TRANSFER PUMP	As per requirement
DRIVE	Diesel Engine / Electric Motor



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