

salarollpump®

THE SUPER SUCTION PUMP



SPILL RESPONSE

Clean up of oil on beaches or along pipe lines is one of the basic uses for the system.

The pump is tolerant to debris. Stones up to 35mm (1 1/2") can pass through without damaging the pump. The extremely strong vacuum and long pump cycle makes suction of bunker c (no. 6 fuel oil) around freezing temperatures possible. The discharge pressure enables it to pump the media to a collecting container.

The pump is hydraulically driven and the power pack can be equipped with diesel, gasoline or electric motor. The pump can run dry and suction starts as soon as the suction nozzle is placed in the media. Should a blockage occur, the hydraulic system can be reversed to clear the pump.



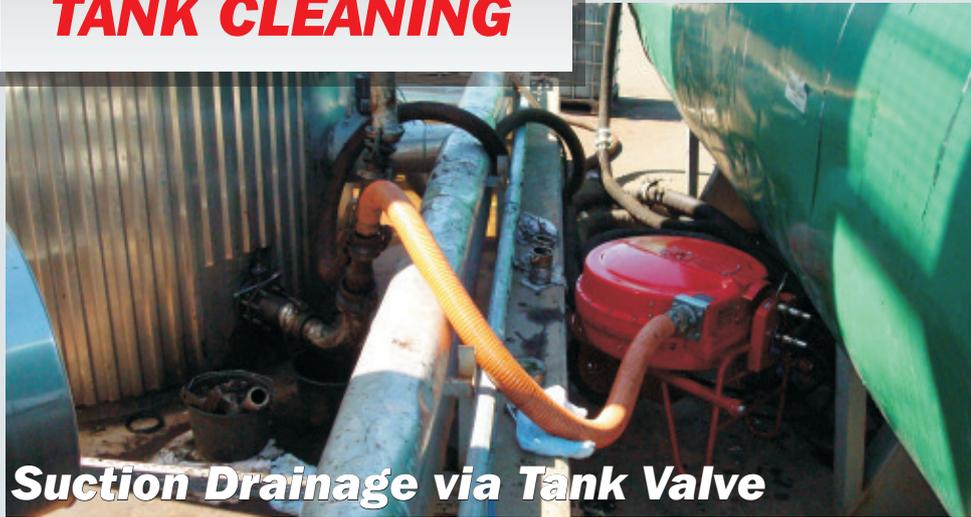
Function

The function is achieved with a peristaltic type of pump. A very strong hose is compressed by a rotating wheel. The suction is developed when the hose with its own force returns to its round shape. Discharge pressure is created by the force of the wheel moving the media. No mechanical parts will come in contact with the pumped media.



The ease of transporting the system is further enhanced by handles that attach to both the pump and power pack for lifting in difficult terrain or by wheeling it as a wheel barrow. An all terrain vehicle or band driven vehicle attached to a trailer is available to transport the pump and power pack to the impacted area. The trailer can also be used for transporting smaller amounts of oil in sacks or barrels to the collecting area.

TANK CLEANING



The high vacuum of the pump improves efficiency of suction from a valve at the bottom of a wide variety of tanks such as slops tanks. This simple method of connection will give easy, quicker clean out with little preparation required and fewer access issues.

Suction Drainage via Tank Valve

Desludging and Oil Recovery

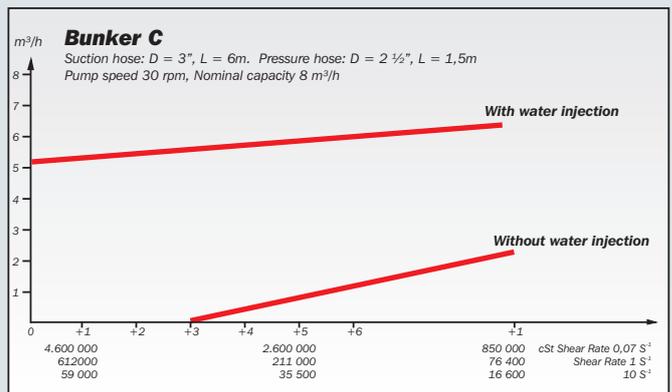
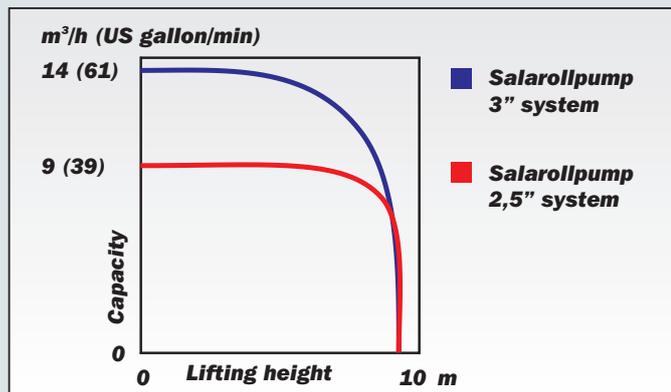


Sludge nozzles

The nozzle is provided with a handle and a swivel. When pushing the nozzle the hose will follow. With the help of the swivel the nozzle can be reversed the other way. Different nozzles are available for this arrangement. As shown on the picture, with and without a rotating hydraulically driven blade and a lower nozzle for clean up of the last thin layer of the pumped product.

Gantry System

The suction hose is suspended above the sludge with metal tripods and horizontal rails holding the hose in place, this will allow the hose to move freely.



Close to full capacity is achieved at theoretical maximum suction height of approximately 10m (33ft) with water. The most important effect of this is the pump's unique suction capability when dealing with high viscous media.

Pump tests have been carried out which indicates that the limit for suction with a 6m (20ft) suction hose is a viscosity of 3.5 million cst measured at a shear rate of 0.07 s⁻¹. With water injection on the suction, a capacity of 5m³/hr (22 gpm) was possible at a viscosity of 5 million cst.

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