

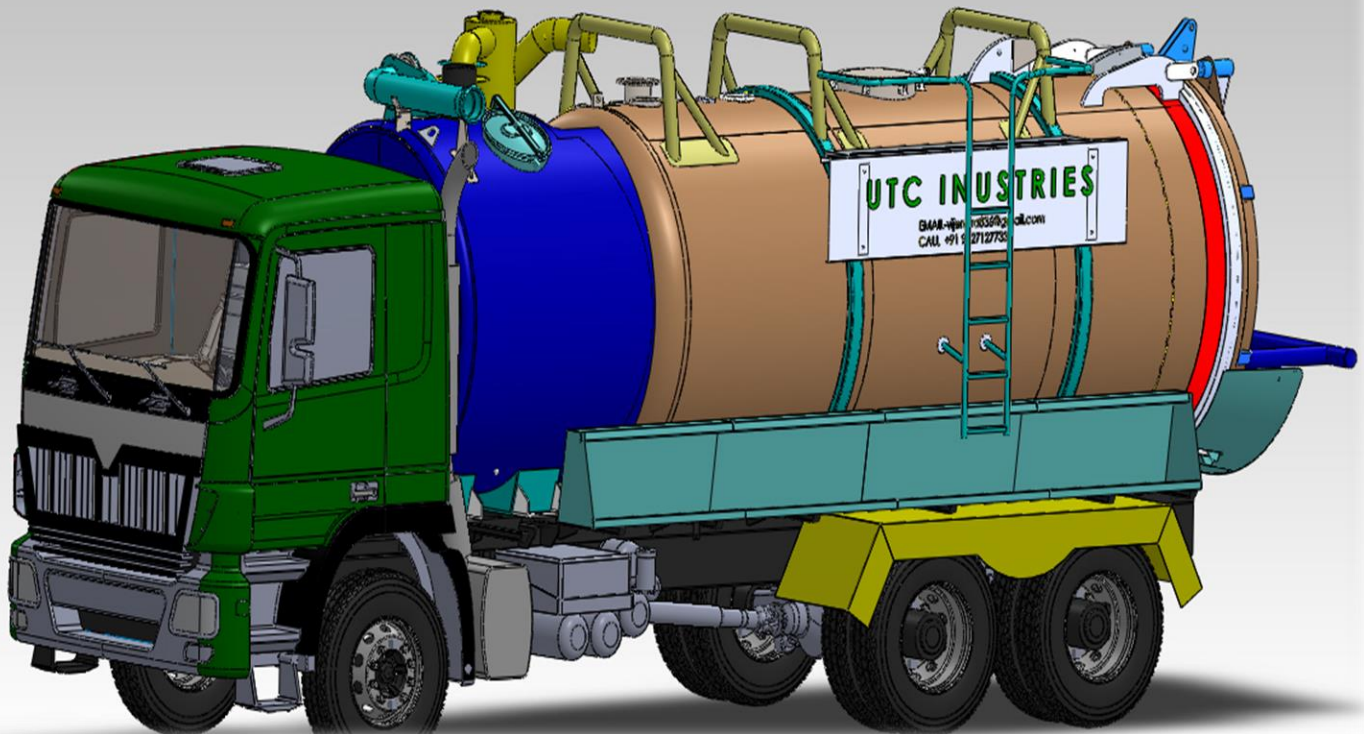


## **FLUID VAC # FLV600 #FLV3400 (SEWER CLEANING VEHICLE)**

Our equipment, partly automated and beneficial to serve various industrial applications is engineered and designed to collect or transport hazardous products in a safe and efficient way.

Versatile, ergonomically designed, and roomy, the New Fluid vac (FLV600, FLV3400) is considered as the benchmark of Combination Units by hundreds of users.

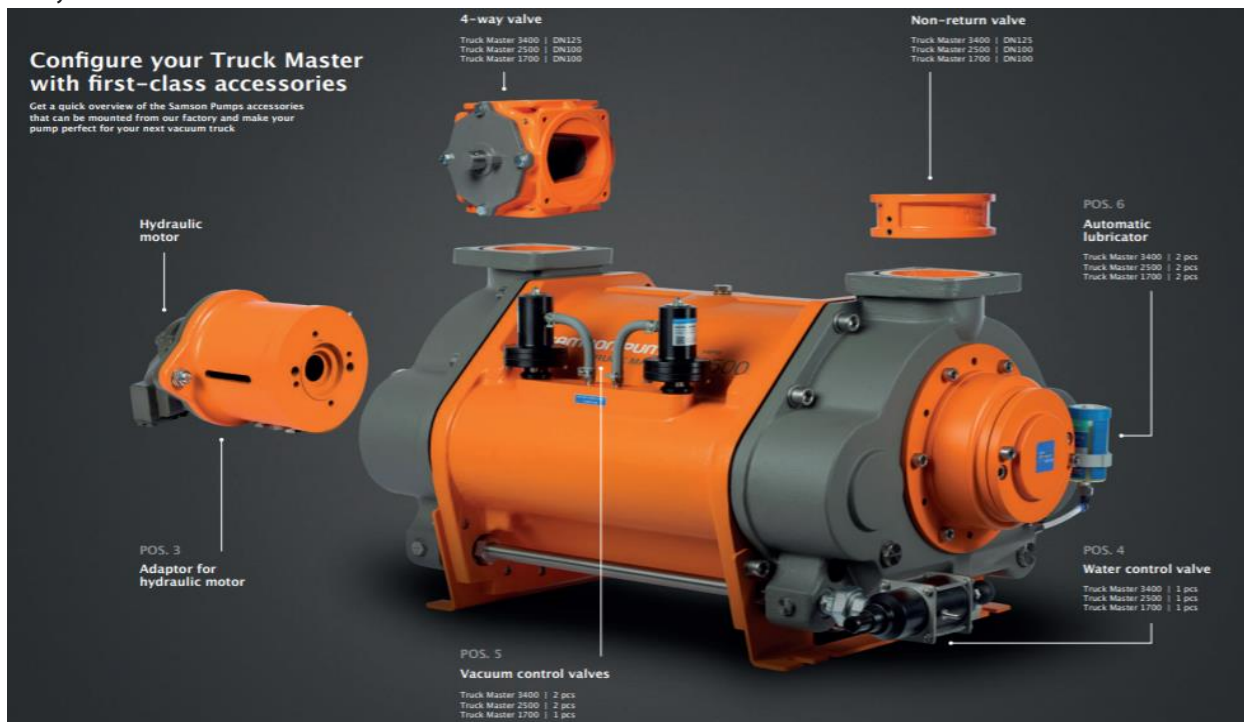
The Fluid vac (FLV600) Combination Unit is totally dedicated to sewer cleaning and waste disposal.



## Product features



- 1- **UTC use liquid ring pumps** for suction application there are following benefits.
- 2- During suction low noise and vibration, Provides continuous vacuum without pressure pulsations.
- 3- High performance due to Lack of metal-metal contact reduces pump wear and eliminates the need for lubrication.
- 4- Liquid ring pumps can handle condensable vapor with ease and are capable of even handling different types of fluids without affecting the pump's performance.
- 5- These pumps have a single rotating or functioning part, which makes them economical and easy to maintain.

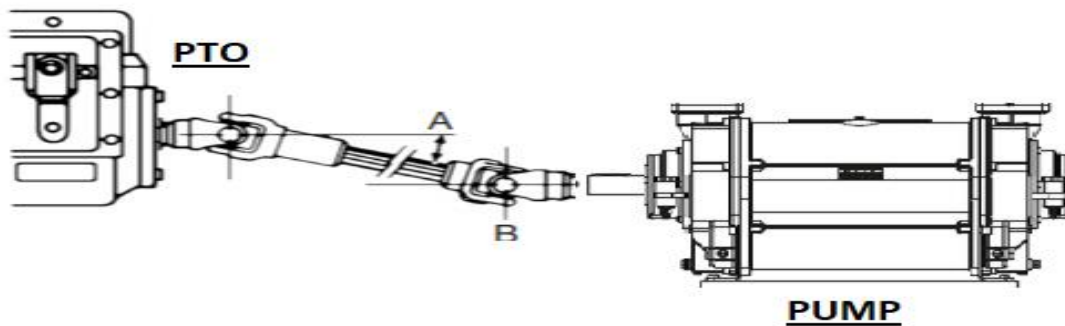
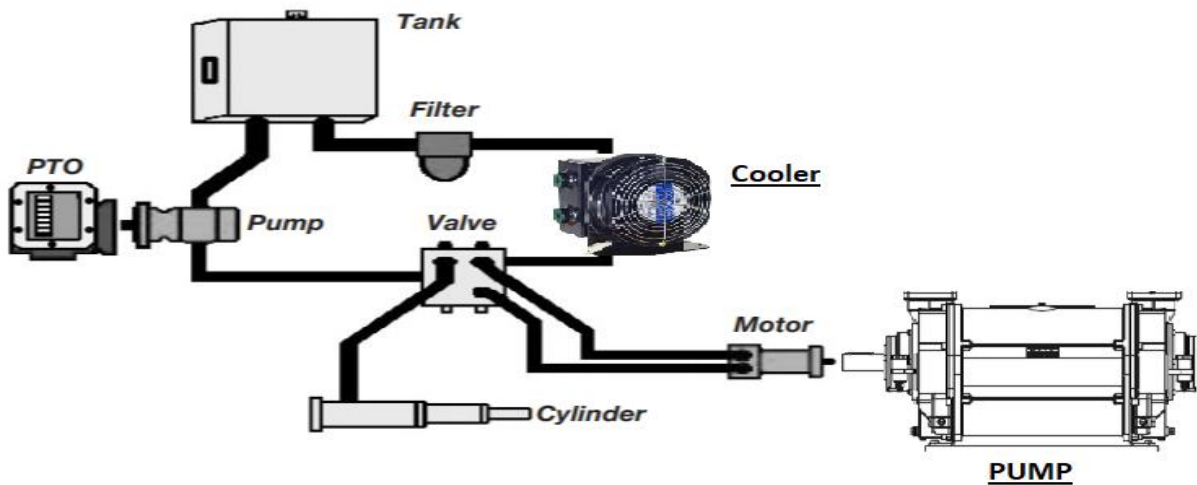


# Drive System

- 1- HYDAULIC DRIVE
- 2- PROP-SHAFT DRIVE
- 3- BELT PULLEY DRIVE



Truck-mounted hydraulic systems, regardless of their application, have in common the basic components and operating principles of any hydraulic system. They utilize a power source, reservoir, pump, directional control valve, and actuators to move and control fluid in order to accomplish work.



# Specifications

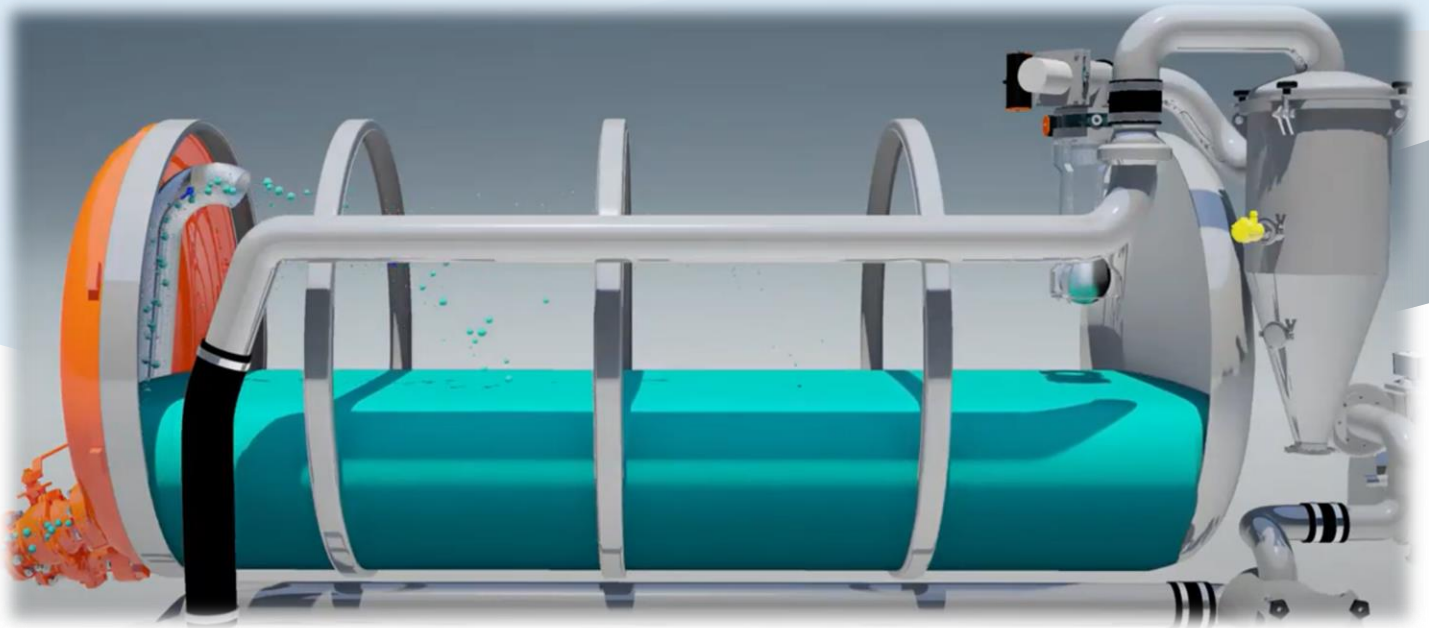
(Super suction cum water jetting machine)



Sewerage Tank (PV-Tank+Water tank)		
<b>Tank volume</b>	14 or as per order	m <sup>3</sup> (14000 L)
<b>Effective loading volume for sludge</b>	10/4	m <sup>3</sup> (10000 L)
<b>Effective loading volume for clean water</b>	4/10	m <sup>3</sup> (4000 L)
<b>Tank Opening_1</b>	Rear lid (door)	
<b>Tank Opening_2</b>	Manhole: DN500 or DN600	
<b>Discharge flange DN</b>	150	mm
<b>Discharge Position</b>	Tank rear down	
<b>Discharge Valve</b>	Auto Knife gate 6"	
<b>Discharge Valve Operations</b>	Manually Operated (Park Lock)	
<b>Discharge Fitting</b>	6" Camlock (Stainless Steel)	
<b>Discharge Accessory Coupling</b>	6" or 4" reducer with 4" ball valve + cap	
<b>Suction DN</b>	100	mm
<b>Suction Position</b>	Rear manhole Down, over Camel Neck (5" up)	
<b>Camel neck elbow</b>	Ceramic lined elbow (anti wear-out), flanged	
<b>Suction Valve</b>	Auto Knife gate 4" + 4" ball valve	
<b>Suction Valve Operations</b>	Manually Operated (Park Lock)	
<b>Suction Fitting</b>	4" cap + sniff valve + chain	
<b>Suction Accessory Coupling</b>	None	
<b>Design pressure - MAWP</b>	-1 > 2	Bar
<b>Test Pressure</b>	3	Bar
<b>Tipping Angle</b>	40°	Deg.

<b>Tank Material</b>	IS 2062-A	
<b>Surface treated</b>	Both side spray Painted	
<b>Sludge flap</b>	On truck bumper	
<b>Gaskets material</b>	NBR & Non-Asbestos	
<b>Ladder/Walking Platform</b>	Ladder with accessibility to top hatch	
<b>Tank Rear Bumper</b>	Yes	
<b>Roll-Over Bars</b>	Yes, 3 Pieces	
<b>Base Structure</b>	Subbase Direct Chassis Mount	
<b>Safety</b>		
<b>PV-Tank Pressure Relieve Vent</b>	Yes	
<b>PV-Tank Flame Screen</b>	Yes	
<b>PV-Tank Overflow Alarm 1 (Warning)</b>	Pendulum Floating ball_1 / Limit switch 1	
<b>PV-Tank Overflow Alarm 2 (Maximum)</b>	Pendulum Floating ball_1 / Limit switch 2	
<b>PV-Tank Overflow Alarm 3 (Ultimate Backup)</b>	Caged Floating ball_2	
<b>Liquid/Gas Separator</b>	Cyclone	
<b>Overfill "Dummy Proof" System</b>	Triple level control	
<b>Exhaust Down "Dummy Proof" System</b>	Yes	
<b>Tank compression "Dummy Proof" System</b>	Yes	
<b><u>Vacuum System and Water jetting</u></b>		
<b><u>Vacuum Pump</u></b>		
Type	Liquid ring Vacuum Pump	
Brand	SAMSON/NASH	
Air Displacement	34,00	m <sup>3</sup> /h
Max Vacuum	-0.9	Bar (9000mbar)
Drive System	PTO	
Vacuum pump Material	Cast Iron	
<b><u>Water Jetting pump</u></b>		
Type	Triplex plunger-pump	
Brand	Pressure Jet/Wasp	
Delivery Capacity	240/170	Lpm/Bar

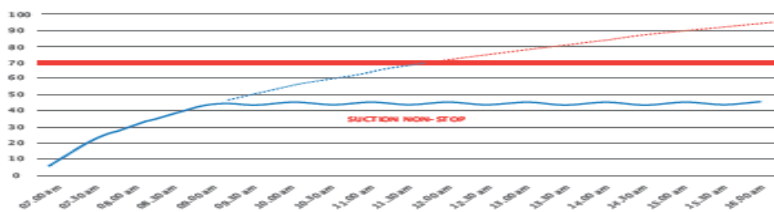
# TECHNOLOGY AND DESIGN



## COOLING MEANS HIGH PERFORMANCE

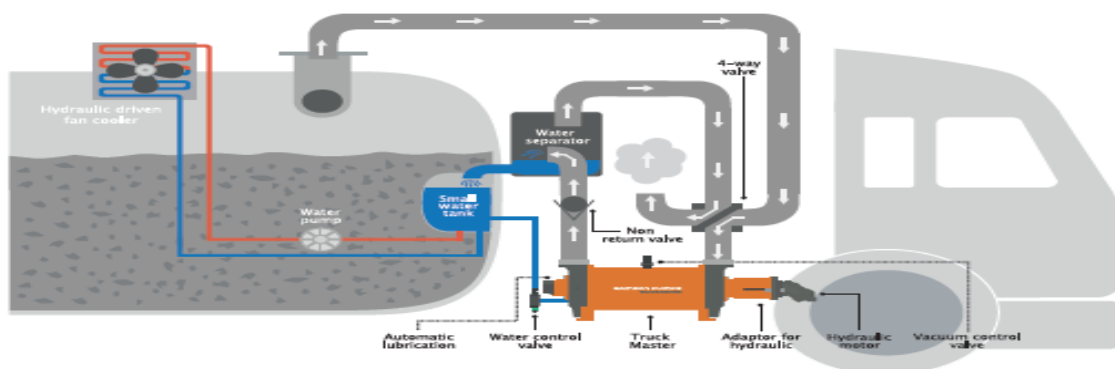
### Suction non-stop

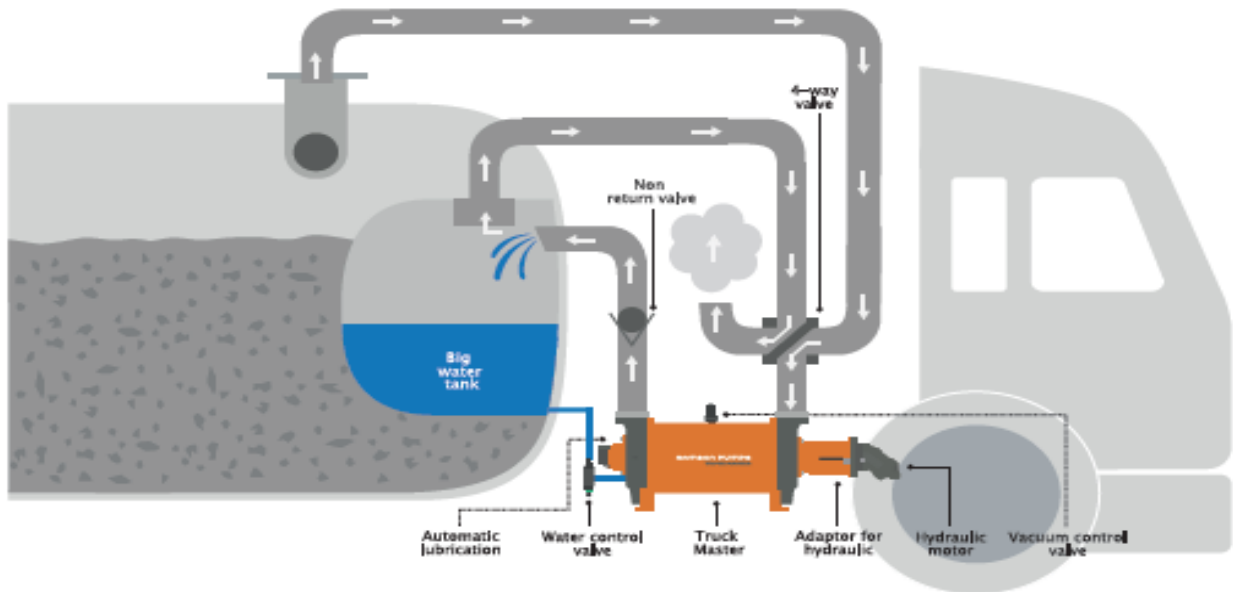
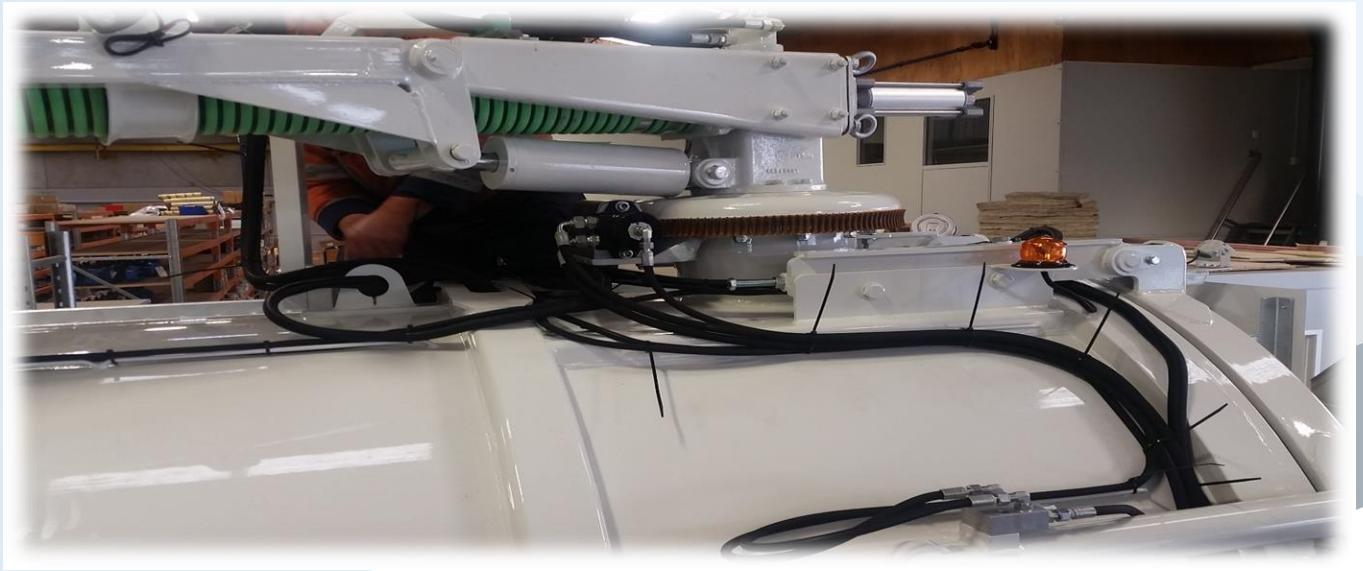
For the truck owners operating 24/7, we recommend building their vacuum system fit for non-stop vacuum operations. With a proper hydraulic driven water cooler, the system will never reach temperatures higher than acceptable for the performance. The balance of energy both led in and out the water ensures a high and endless performance curve.



### Advantages

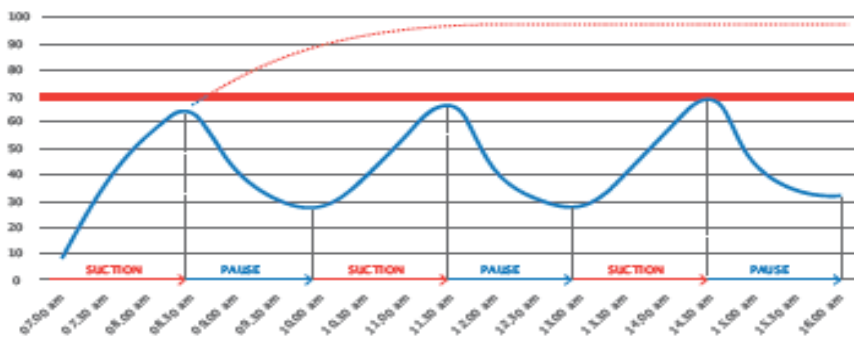
- + Energy will balance
- + Constant performance
- + Small water tank
- + No downtime





### Suction in intervals

Some applications do not require a significant amount of operation hours and may even allow access to cold replacement water. In these cases, we recommend building your truck according to the "Interval operations" design. The simple design, based on a big water tank will allow the operator to perform the job he needs and transport the load to the drop off point.



### Advantages

- + Less components
- + Easy to build
- + Easy to use