

T H E S E L F T H I N K I N G P U M P !

VANTAGE

More reliable

More flexible

More performance

Less expensive

**Patent
pending**



PIUSI
FLUID HANDLING
TECHNOLOGY

50

T H E S E L F T H I N K I N G P U M P !



PATENT PENDING

VANTAGE

The ability to adopt the innovations to develop new product , which are capable to integrate the higher performances in junction with the standard of safety and reliability that the market requires, has led to realise VANTAGE. A new pump to mark the future for the application in its sector.

VANTAGE is a transfer pump designed to be used on earth-moving machines for self-refuelling from external tanks. VANTAGE sets whole new standards in reliability, performance and cost-effectiveness for the equipment used on this sector where are facing the hardest working condition with the highest reliability requested to avoid problem and time wasting.

A new solution that only PIUSI can offer thanks to an innovative product complete of **advanced patented technology** owned by PIUSI.

think genius think vantage





RELIABILITY

Studies have shown that, in the majority of cases, fuel-transfer pumps break down because of improper handling by users, including excessive or extreme use, accidental start-ups, or simple carelessness, that can leave the pump running for hours on end. Breakdowns translate into loss of time and money while waiting for the pump to be repaired. These difficulties are overcome with VANTAGE. Thanks to new, internationally patented technology, VANTAGE automatically prevents situations from becoming critical.

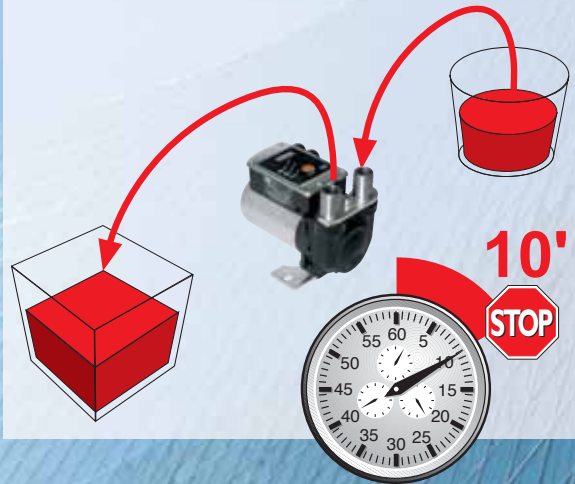
Over running



Fuelling pumps are generally installed in noisy environments where it is hard to tell if a pump is on or off. In these conditions, it is not uncommon for pumps to be accidentally turned on or left running.



VANTAGE is equipped with a timer that stops the pump motor after ten minutes. Ten minutes provides sufficient time for refuelling, but the chances of spilling are strongly reduced and the pump's service life is preserved. Further the stop, it is still possible to re-start the pump.



VANTAGE

Dry running



One of the most common causes of pump wear and breakdown is dry running. Users generally introduce the suction hose inside the fuel drum and start the pump without checking to see if it is actually taking up fuel. A badly placed hose, a squeezed section, or a clogged filter can interfere with pump priming and damage pump components.



These problems are overcome by electronic solutions patented by PIUSI. VANTAGE recognizes bad priming and stops the pump automatically with no human intervention.



If users fail to realize that the supply tank is empty, the pump can be left to run indefinitely.

This can damage the pump, as well as needlessly extending refuelling time.



VANTAGE solves this problem too, by detecting dry-running conditions and stopping the pump when the supply tank is empty.

This helps preserve pump components and requires no special skills from users.





RELIABILITY

Over heating

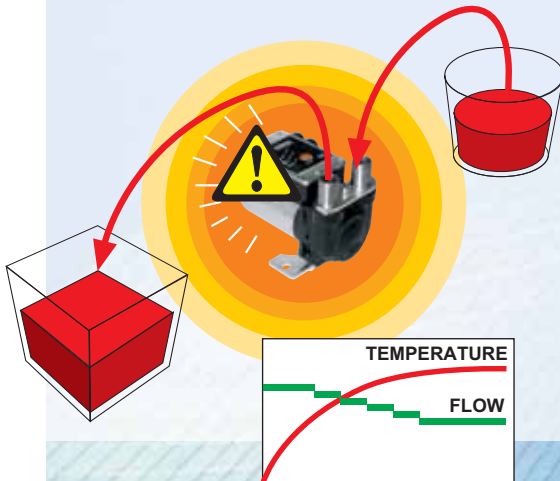


Bad weather conditions can reduce a pump's service life, causing overheating and possible motor damage.



VANTAGE eliminates these risks, thanks to a sensor that detects motor temperature and gradually reduces power as necessary.

The pump is not stopped but adjusted to provide ideal performance and constant service under critical working conditions.



Over pressure

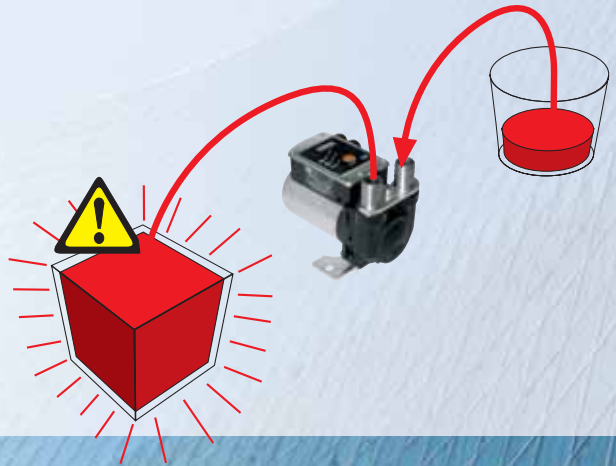


Extreme operating conditions can arise when users fail to open an airhole to release air from the tank while refuelling, or when, after refuelling, diesel fuel starts to leak from the airhole.

Both situations create an overpressure that can overload the motor and cause it to break down.



VANTAGE eliminates the risk of this happening. The system detects a condition of motor overload and stops the pump.



Prevention and assistance

PIUSI believes that a constant exchange of information with customers and users can support its ability to provide quality products. VANTAGE users can check the pump status at any time, and examine the chief events in the pump's life to better understand operating conditions and improve them as required.



Working status

The pump's operating status can be seen at all times by checking the control LEDs. If the pump was automatically stopped, the user can discover the cause and take the appropriate measures.



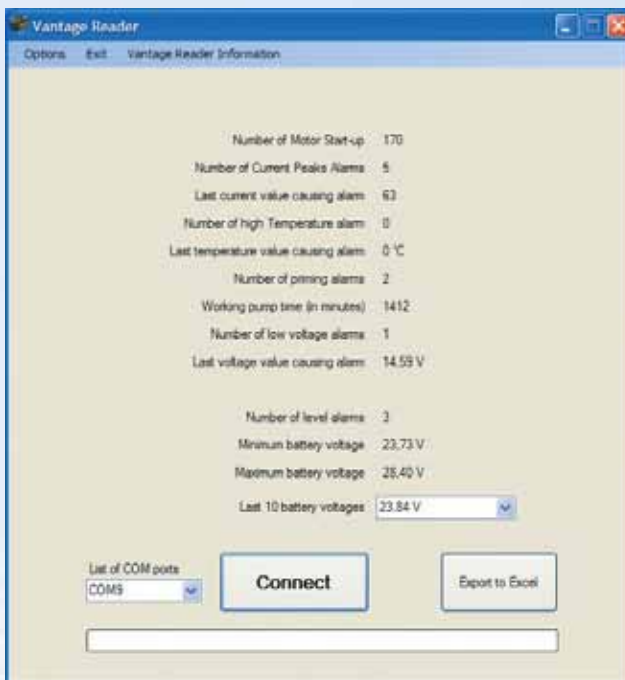


RELIABILITY

Log file output

In its effort to provide constantly improved service, PIUSI has equipped VANTAGE with the capacity to record the main events in the pump's life, so that its performance history can be examined at any time.

These data are saved on a file that can be easily downloaded by PIUSI engineers or by authorized personnel to provide information on the pump's usage and suggestions for further improvements.

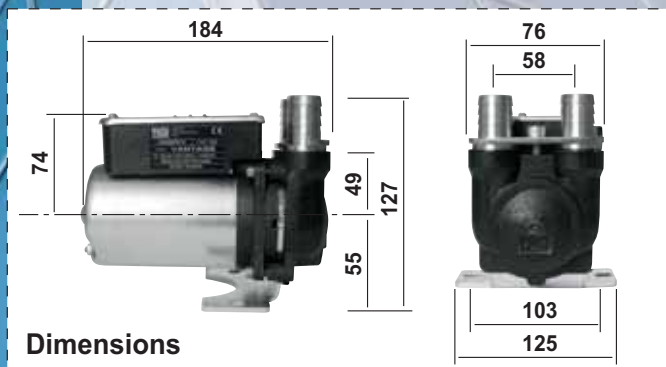


FLEXIBILITY

VANTAGE was designed bearing in mind the requirements of manufacturers as well as end-users.

In PIUSI's experience, fuelling pumps are often installed in places where mounting hydraulic and electric components is not a simple matter.

One of the project priorities was to provide a number of additional benefits, for example the compact dimensions that make VANTAGE easy to install even in the limited spaces available on today's machines.





FLEXIBILITY

Position for Inlet / Outlet

Another benefit is the newly-designed mounting support, which offers three options for anchoring the pump: bottom, right or left.

Pump support position



S



W



E

IN / OUT position



N



W



E

Connection box position



N



W



E

Hose connections

A further advantage is the parallel placement of the inlet and outlet couplings, that can be oriented in 4 directions.



Remote switch connection

Additionally, if the pump is installed in a position that makes the switch hard to reach, the switch can be installed at a distance, using inexpensive, small-sized wires.

Tank level switch connection

The pump is designed to accept direct connections without requiring costly power relays, in case operators want to provide the tank with level-gauge switches to stop refuelling.



VANTAGE is available with 12 V or 24 V motors.





P E R F O R M A N C E

High flow rate

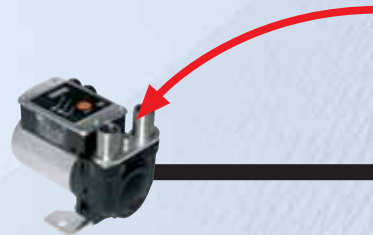
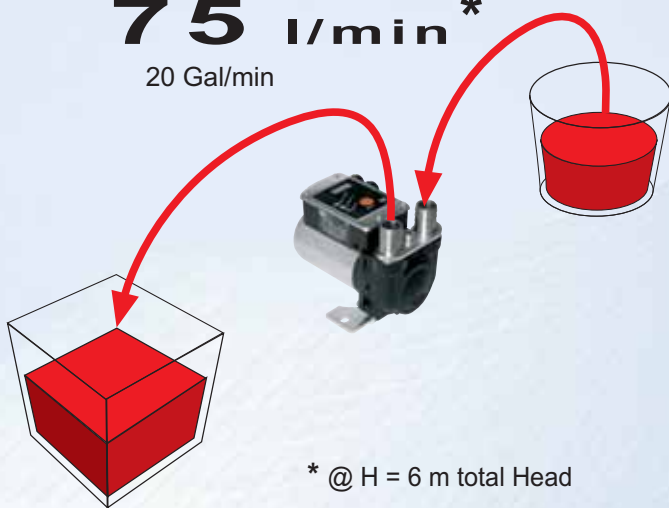
Along with reliability and safety, VANTAGE is built for performance. It may be small to look at, but in performance it ranks at the top of its class. VANTAGE can deliver 75 litres of fuel per minute (or 200 litres in 2 minutes and 40 seconds), meaning lower refuelling time and less machine downtime.

High suction

In addition, VANTAGE can work at a distance of 8 metres and with a vertical drop of an amazing 3 metres. These features make it possible to use VANTAGE in the most difficult suction situations.

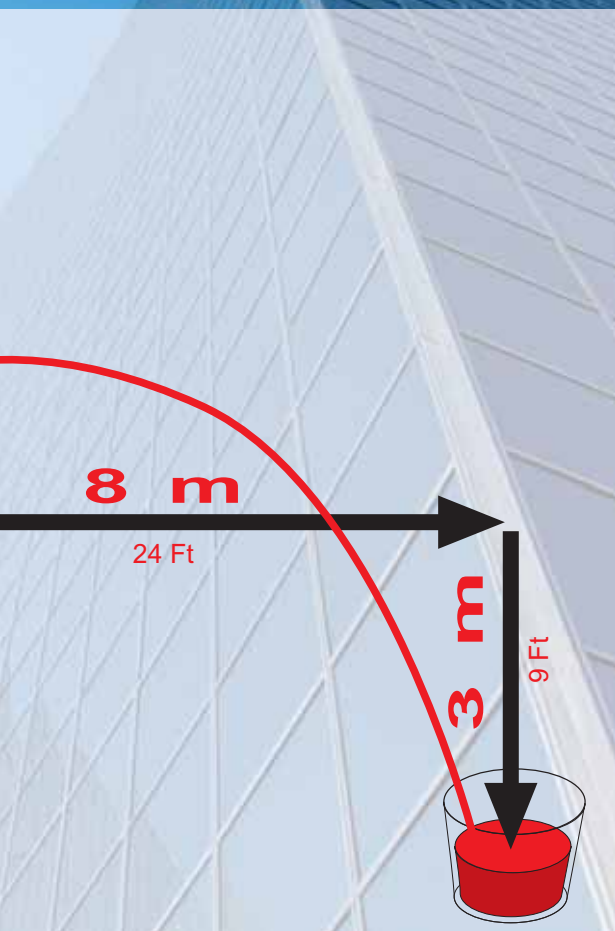
75 l/min*

20 Gal/min



* @ H = 6 m total Head

E S



Conclusions:

The overall cost of installing a refuelling pump goes beyond the price of the pump itself. Costs can often increase significantly, to include accessories such as mounting brackets, connections, switches, level-gauge interfaces, and so on, and their respective assembling time.

In VANTAGE many of these functions are inbuilt. In addition, PIUSI can provide personalized kits that are easy to install: a complete package that reduces installation costs and generates added value for users.

VANTAGE: A full set of advantages for users, manufacturers and the environment; an all-round offer from a leading industry, combining the best in reliability, performance and cost-effectiveness.





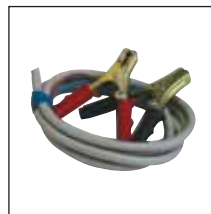
Accessories



90° Hose tail



Level switch



Custom design connections



Custom design pump support



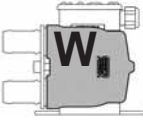
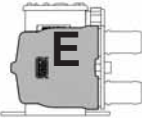
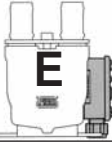
Suction hose



Integrated bottom valve

	Flow rate max (l/min)	H max (m)	Voltage (Volt)		Current Max (Amp)		Weight (Kg)
			12 V	24 V	@12 V	@24 V	
Vantage 40	40	12	●		10		3.35
Vantage 60	60	15		●		16	3.35
Vantage 75	75	15		●		20	3.35

How to set-up your pump

	VANTAGE	40	S	N	N	CW
Name						
Version						
Pump support position						
IN / OUT position						
Connection box position						
Rotation (clock wise / anti clock wise)	 CW		 ACW			



Example:

VANTAGE 60 ENNCW

Flow rate 60 l/min

Clock wise rotation

Configuration as per picture



