



**KAISER
WHALE**

AQUA | WHALE

Reliability, Service, Value ... for Life



THE CONTRACTORS CHOICE

High Power Multipurpose Flexible Combination Unit



AQUA | WHALE

Developed, tested and built at Whale's Solihull headquarters, the AquaWhale has been designed as a multi-purpose unit, giving waste operators a highly flexible machine with great environmental credentials, that offers an outstanding whole vehicle life proposition.

By featuring a Kaiser liquid ring pump in the front compartment, the unit requires far less pipework than a conventional machine, thereby increasing system performance and efficiency. As the pump is submerged in a special water compartment, cooling is more effective, with the additional benefit of reduced noise levels. It can operate at lower temperatures too, as the unit is less prone to freezing.

The AquaWhale also features enhanced stainless steel storage lockers for ease of operation.



Reliability, Service, Value ... for Life



THE CITY CYCLOR

Sewer cleaning jet-vac with continuous water recycling



KAISER | WHALE

The KaiserWhale is recognised in the UK as the leading highly specialised sewer cleaning solution with continuous dirty water recycling. By effectively re-using dirty water for jetting, the KaiserWhale maximises time spent working, whilst minimising time wasted tapping into precious clean water supplies.

Designed and built to meet the specific needs of operators across the UK and Ireland, the KaiserWhale is an effective, powerful jetter and sewer cleaner that is available in 16, 18, 26, 32 and 44 tonne variants and even a demountable version. Developed in exclusive technical partnership with Kaiser AG - the acknowledged European leader in water recycling equipment - the KaiserWhale offers significant operational benefits when it comes to specialist sewer cleaning operations.



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THE VERSATILE ADDITION

HP sewer jetting skid-mounted unit



WHALE | ECONOMIC

Compact, lightweight and optimal comfort. This characterises the Whale Economic. This high pressure sewer jetting skid-mounted unit is highly suitable for cleaning of house connections and sanitary sewer systems of up to Ø500mm. With the Economic in the back of your utility vehicle you benefit on a daily basis from the latest technology, such as the iROM control and the unique swivelling hydraulic high pressure hose reel with hinged guiding system and rotating control panel.



WHALE ECONOMIC CHARACTERISTICS:

Lightweight and compact

The Economic is suitable for mounting in medium-sized commercial vehicles such as VW Transporter, MB Vito, Renault Trafic / Opel Vivaro, Toyota Hiace and Ford Transit. Even the most powerful configurations are compact enough for these vehicles. Thanks to the compact design and low empty weight you can take on plenty of water and yet you are left with more (storage) space.

Cost saving

Apart from the sharply priced skid-mounted unit you will save costs because the Economic fits into vehicles that require only a modest investment.

iROM operation

The iROM intelligence system is integrated by default on the Economic. iROM operation incl. day light display and water resistant control panel (IP65), with function display (speed/working hour counter etc.) and automatic service-interval indicator. The ease of use is optimal, because iROM gives the user information about the machine's functioning. The status can be read on the display and you are even warned with a signal as soon as your unit needs service for instance.

Working easily and ergonomically

The unit combines proven techniques with a user friendly simplicity. You will be surprised how easy it is to work with the Economic. Thanks to the integrated iROM operation and unique swivelling hydraulic high pressure hose reel, you and your employees work easier and more productive than ever.

Reliable construction

The solid construction and steady engine/pump combinations (Kubota engines and SPECK high pressure pumps) ensure you of a durable solution.

Swivelling hydraulically driven high pressure reel (135° + 90°)

The Economic is equipped with the swivelling hydraulically driven high pressure reel by default, meaning that you will experience the optimal and ergonomic ease of use time and time again.

- 180° reach - adjustable to practically in every working position
- Working sideways onto vehicle (left and right)
- Immediately ready for use without having to swivel first
- Reaches far outside of vehicle's door opening
- Hinged hose reel guiding system and rotating control panel





**KAISER
WHALE**



ZERO 
EMISSIONS

LOW 
NOISE OPERATION

LOW 
MAINTENANCE

LONG 
BATTERY LIFE

THE UK'S FIRST ELECTRIC MVC

Reliability, Service, Value ... for Life





Reliability, Service, Value ... for Life

The eWhale is the UK's first fully electric MVC and the latest multifunctional gully cleaner and drain jetter designed by Whale Tankers to enable both local authorities and private sector contractors to operate in inner city, ultra low emission zones (ULEZ).

In addition to the eWhale's main environmental attribute, zero emissions, it also delivers improved operating efficiencies. Featuring two banks of chassis mounted lithium battery packs that deliver power via a 9 phase process to a 250kW electric drive motor, eWhale has the capacity to remain fully operational over a normal vehicle shift pattern.

The battery packs are proven to withstand more than 3,000 charges over an expected 10-year period of normal operation. The eWhale has been designed to require very low maintenance, whilst also featuring equally low running costs.

The eWhale is also environmentally-friendly when it comes to noise pollution due to it being extremely quiet in operation, making it more suitable for inner city night-time environments than current diesel powered vehicles.

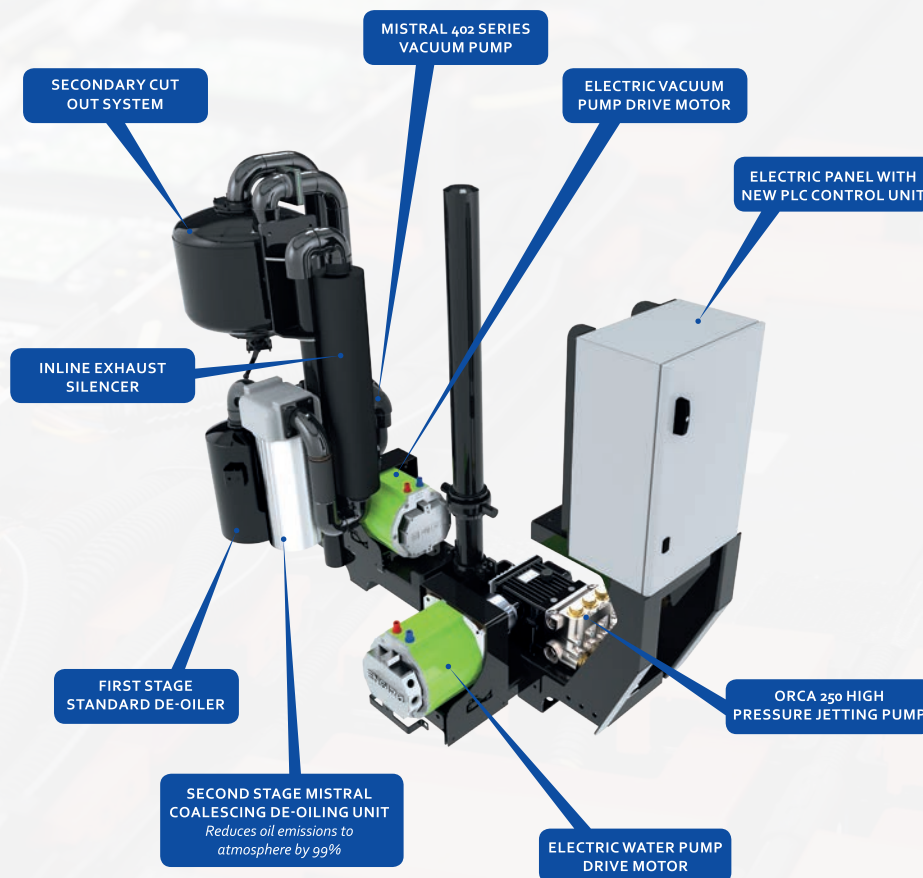
The new all-electric eWhale, which is capable of being mounted on a range of both low-entry and standard cab chassis, has an additional electric instrument control panel that details battery capacity, gear position, range prediction, regenerative power and system status information. The vehicle's battery system is charged via a 63 Amp, 3 phase neutral and earth power supply, complete with RCD type A 30 mA protection, for which a 10m charging lead is supplied as standard.



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BATTERY MODULES AND SLAVE BOARDS

Slave boards monitoring individual cell performance.



CHASSIS MOUNTED CHARGING UNITS

Liquid cooled, twin chargers enabling dual battery pack charging.



VEHICLE MAIN DRIVE MOTOR

600V, 9 phase, 250Kw, liquid cooled, inverter controlled drive motor.



EQUIPMENT FRAME

Housing electric PTOs, two stage de-oiling system, noise reduction silencing and vacuum and jetting pumps.



DRIVER'S DISPLAY

Displaying battery capacity, gear position, range prediction, regenerative power and system status.



INVERTER AND ELECTRIC PTOs

Liquid cooled, high voltage three phase inverter controlled electric drive motors for jetting and vacuum pumps.

Reliability, Service, Value ... for Life



THE PERFECT COMBINATION

Powerful and multifunctional gully cleaners and jetters



GULLY | WHALE

Both the GULLYWhale and JETVac are popular choices with municipal operators. Reflecting Whale Tankers' ongoing commitment to the field of product innovation, they remain a dynamic solution and come packed with features, delivering ever improving operating efficiencies and all-important health and safety related benefits.



LOW VOLUME COMBINATION

The LVC is considered an entry-level specification that provides an excellent solution for emptying and cleaning roadside gullies fast and efficiently. It is also equipped with high pressure water jetting to clear gully connections and domestic drains. The vacuum tank can be used to empty septic tanks and cesspools.



MEDIUM VOLUME COMBINATION

The MVC is a highly developed, multi functional machine ideal for contractors and councils working on mainline sewers, gullies and drains. It not only includes all the features of the LVC, but also has up-rated jetting performance and the benefit of years of focused research and development. The result of this investment is a very efficient standard package. The fundamental difference and upgrade is apparent with the fitting of the large hydraulically powered jetting hose reel to the rear door. A large number of additional options are also available to the customer to suit their requirements.



HIGH VOLUME COMBINATION

The HVC is a serious contender, with the focus being on larger diameter sewer jetting. Incorporating all the features of the MVC, the jetting performance is taken to the next level to provide a machine to take on a wider range of duties as required by our municipal customers. Equipped with the hydraulically powered jetting hose reel, together with improved flow and



HIGH AND MEDIUM VOLUME JETVAC

The JETVac machines have all the qualities of the GULLYWhale, but are configured without the overhead boom, which allows the operation to be focused on drain and sewer cleaning and results in a very capable unit.

In addition, the layout of the hose storage, controls and equipment is subtly changed to be more in line with the operation being concentrated at the rear workstation.

A wide range of upgrades to the vacuum pump performance is also available on the Medium and High Volume machines.



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THE KING OF RECYCLERS

Sewer cleaning jet-vac with continuous water recycling



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The KAISERWhale is recognised in the UK as the leading highly specialised sewer cleaning solution with continuous dirty water recycling. By effectively reusing dirty water for jetting, the KAISERWhale maximises time spent working, whilst minimising time wasted tapping into precious clean water supplies.

Designed and built to meet the specific needs of operators across the UK and Ireland, the KAISERWhale is an effective, powerful jetter and sewer cleaner that is available in 16, 18, 26, 32 and 44 tonnes, plus demountable variants.

Developed in exclusive technical partnership with Kaiser AG – the acknowledged European leader in water recycling equipment – the KAISERWhale offers significant operational benefits when it comes to specialist sewer cleaning operations.



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THE SERIOUS HEAVYWEIGHT

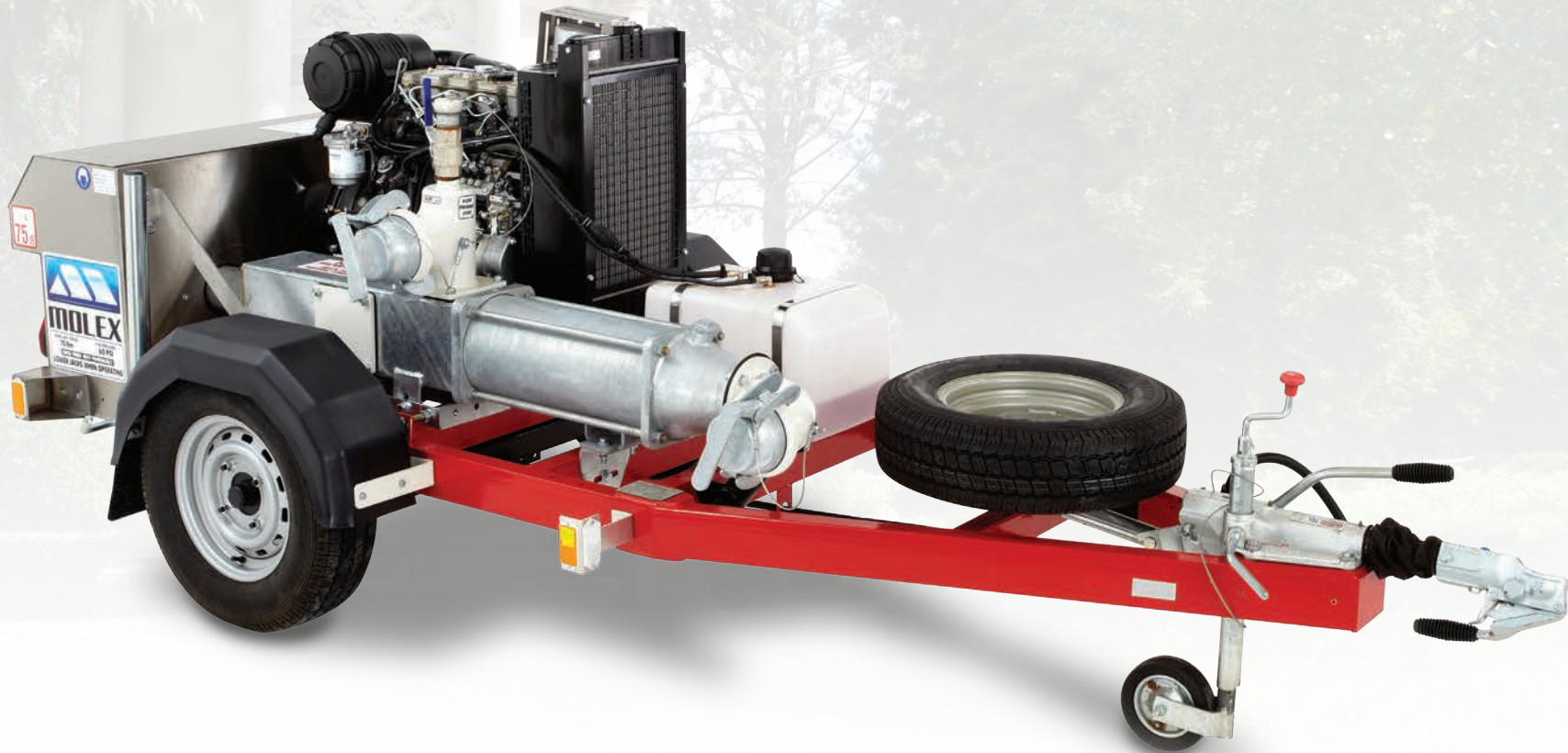
High volume jet-vac vacuum tanker for deep sewer cleaning and maintenance



KILO | WHALE

A serious heavyweight that packs a punch when powerful jetting and vacuum performance is required for deep sewer cleaning and maintenance. With its impressive capacity, KILOWhale provides high power vacuum and air conveying loading and has the capability of lifting waste from depths beyond the constraints of vacuum loading. The KILOWhale has an equally impressive jetting system with a full range of flows and pressures.





*Progressive cavity pump set capable of pumping
heavily laden or viscous liquids and sludges*



MOLEX PUMP SET

Pump Set Trailer Features

- EC type approval no – e11*2007/46*0755*
- Purpose-designed to cope with arduous working conditions
- 900 kg heavy duty axle
- 975 kg max GVW
- Positive Displacement Progressive Cavity Pump
- Designed for easy operation
- Galvanised trailer assembly for longer life
- Built-in clutch unit with manual facility
- Spare wheel
- Throttle allowing variable speed for process control
- Minimal maintenance required

The Molex Pump itself can also be supplied freestanding or mounted as follows:

- Bare shaft with keyed or splined driveshafts
- Tanker mounted for loading, transfer or spreading
- Single axle trailer mounted with its own power source

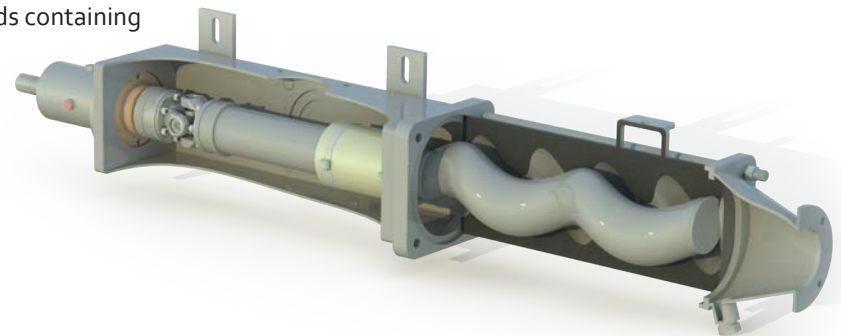


Typical Areas of Application

- Ideal for emergency flood water pumping
- Draining of oil lagoons and pumping through agricultural slurries
- Can be used on Sewage and heavy industrial sludges
- Effective even with barely viscous liquids

Molex Pump Features

- High delivery pressure upto 6 bar (90 PSI)
- High flow up to 1350 litres per minute (18,000 gallons per hour)
- Good suction lift capability of over 8 metres
- Capable of lifting liquids containing 20 % or more solids
- No Foaming



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Reliability, Service, Value ... for Life



THE URBAN RECYCLER

Sewer cleaning jet-vac with continuous water recycling



KAISER | WHALE

The KAISERWhale range is recognised in the UK as the leading specialised sewer cleaning solution with continuous dirty water recycling. By effectively reusing dirty water for the jetting operation, the KAISERWhale maximises time spent working, whilst minimising time wasted collecting precious clean water.

The Urban recycler has been designed to specifically meet the needs of contractors working within the urban environment. It gives superb operational benefits by minimising the potential of "Blow Backs" when operating in sewer lines between 100mm – 225mm diameter. The less aggressive "soft" technology, gives an extremely cost effective solution, whilst still having the capability of continuous recycling in 600mm diameter. Further benefits also include the very significant additional payload advantage.



VACUUM | WHALE 2.0



THE DIVERSITY SPECIALIST

*For hazardous and non hazardous
liquid waste handling*

Reliability, Service, Value ... for Life



VACUUM | WHALE 2.0



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**KAISER
WHALE**

ADR VACUUM | WHALE 2.0



THE DIVERSITY SPECIALIST

For hazardous liquid waste handling



Reliability, Service, Value ... for Life



For customers wanting diversity, then it doesn't get any better than VACUUMWhale. Purpose - designed, every VACUUMWhale is different. They can be manufactured to any capacity, limited only by axle-loading regulations, on all types of rigid or semi-trailer chassis, tipping or non-tipping, and frameless semi-trailers, on sub-frames, demountable frames, frameless and with any required form of special mounting. They can be manufactured from stainless and carbon steel, supplied with or without jetting and capacities matched to GVW across the range. Customers are also assured that they are built to the highest relevant standards, including the requirements of ADR/hazardous and non-hazardous products.



ADR VACUUM | WHALE 2.0

P.E.D. REGULATIONS

*The Pressure Equipment Directive 97/23/EC was adopted by the European commission in 1997. It's aim was to improve the safety of all pressurised equipment. It was adopted into UK law as the **Pressure Equipment Regulations SI 1999 No. 2001**. Whale Tankers implement this legislation and all vehicles fully comply. Customers need to be aware of it as compliance is a legal requirement. Failure to do so is a criminal offence resulting in up to 3 months imprisonment!!*

Our vehicles have the P.E.D approval number on the tanker identification plate and a certificate is supplied with every vehicle.

ADR REGULATIONS

*The carriage of hazardous waste within Europe are covered by **ADR regulations** which were mandatory in the UK from 2002 and replaced domestic legislation.*

*Under **ADR regulations**, which are related to the carriage of products defined as dangerous goods, a vacuum tanker must be designed accordingly to the material it is intended to carry.*

SPECIALIST LININGS

For difficult to handle loads, often associated with special materials for tank fittings. Further information is available upon request.





WHALE TANKERS

Reliability, Service, Value ... for Life



“Continuing to lead the field in terms of product innovation and development, Whale Tankers has developed a unique drinking water solution that is being welcomed by the leading water authorities across the UK”

With current equipment and technologies nearing the end of their expected product lifecycle, Water Authorities are focusing their energies investing in the optimum infrastructure to ensure water supplies can be maintained in both urban and rural areas should a mains system fail. Enter Whale Tankers and its highly efficient WhaleWater – a technologically advanced Variable Speed Pump (VSP) system that has been designed to be fitted to new vehicles, or retrofitted to older vehicles both within Water Authorities' and sub-contractor fleets.



Reliability, Service, Value ... for Life



THE MAXIMISING MOVER

Lightweight high capacity frameless semi-trailer bulk waste



WHALE | VAC

For customers wanting a lightweight high capacity semi trailer, purpose-designed to transport hazardous and non hazardous liquid waste you need look no further than WhaleVac. With a simple, reliable low maintenance design available in 5mm thick mild steel and 4mm stainless steel, we have developed a range that minimises vehicle weight whilst maximising payload. Designed to operate at 40/41 tonnes GWC and 44 tonnes GWC the WhaleVac is fitted with axles and suspension in tri-axle format and has full air suspension with air lift front axle. It also has 5 metre long aluminium hose storage racks fitted to each side with hose retaining straps.

Quality Assurance

All trailers are Type Approved in Accordance with Regulations identified in 2007/46/EC – Frame Work Directive. ANNEX IV, Part 1, O4. All designs are originated by qualified engineers using an advanced 3D CAD system.

