

**NEW**



*Reliability, Service, Value ... for Life*



*ZERO EMISSIONS*

*LOW NOISE OPERATION*

*ULTRA LOW MAINTENANCE*

*LONG LIFE BATTERIES*

## THE UK'S FIRST ELECTRIC MVC

*Zero emissions, powerful and multifunctional sustainable and efficient gully cleaners and jetters*





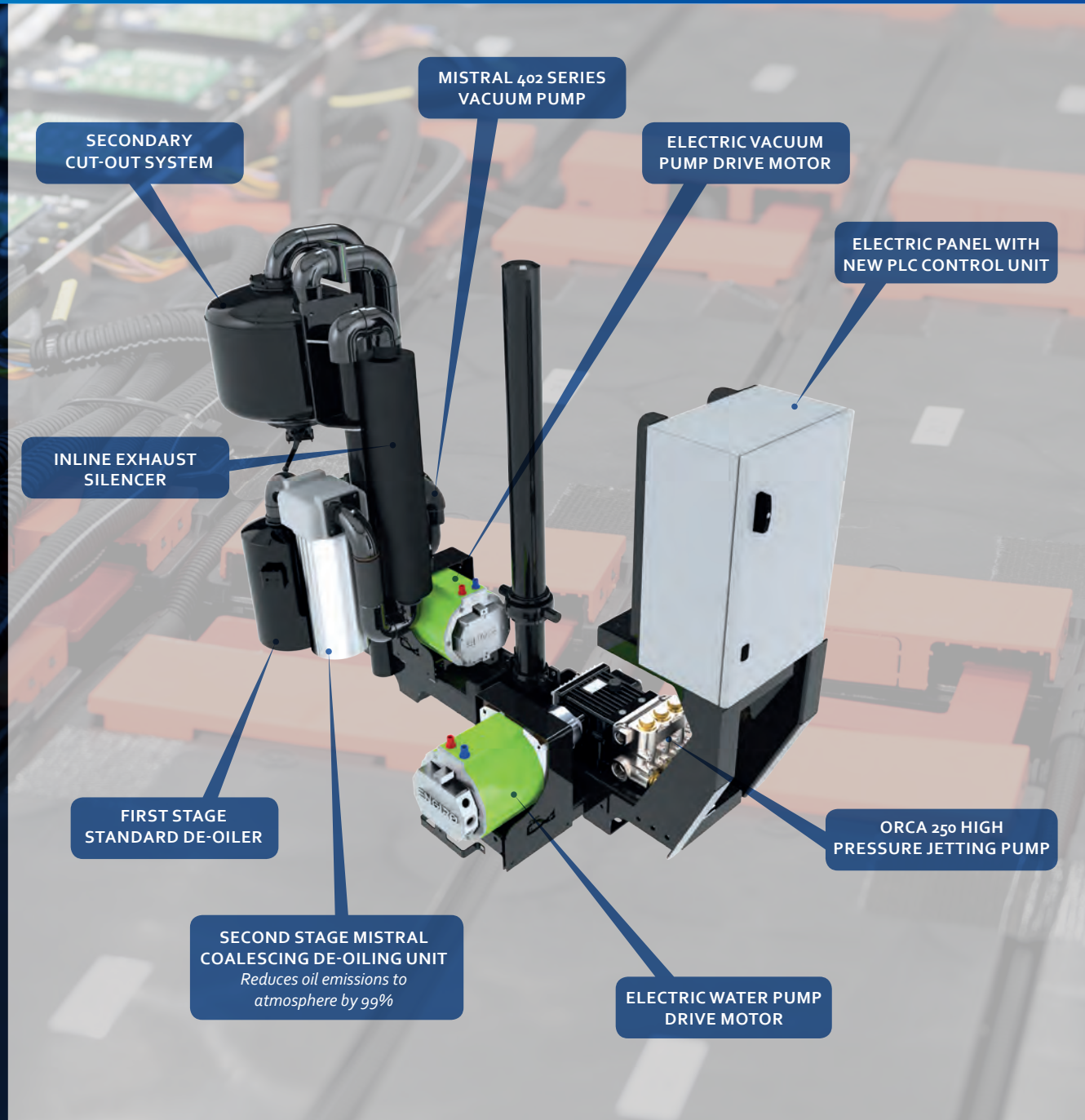


*The eWhale is the UK's first fully electric MVC and the latest multifunctional gully cleaner and drain jetter designed by Whale Tankers to enable both local authorities and private sector contractors to operate in inner city, ultra low emission zones (ULEZ).*

*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 2kW 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.*



SECONDARY  
CUT-OUT SYSTEM

MISTRAL 402 SERIES  
VACUUM PUMP

ELECTRIC VACUUM  
PUMP DRIVE MOTOR

ELECTRIC PANEL WITH  
NEW PLC CONTROL UNIT

INLINE EXHAUST  
SILENCER

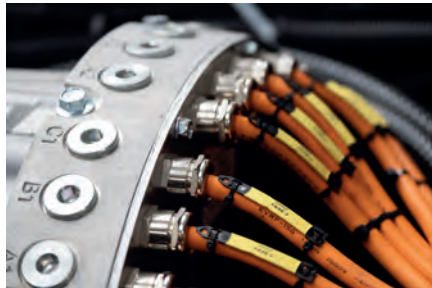
FIRST STAGE  
STANDARD DE-OILER

SECOND STAGE MISTRAL  
COALESCING DE-OILING UNIT  
*Reduces oil emissions to  
atmosphere by 99%*

ORCA 250 HIGH  
PRESSURE JETTING PUMP

ELECTRIC WATER PUMP  
DRIVE MOTOR





## 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.



## BATTERY MODULES AND SLAVE BOARDS

Slave boards monitoring individual cell performance.



## CHASSIS MOUNTED CHARGING UNITS

Liquid cooled, twin chargers enabling dual battery pack charging.



## INVERTER AND ELECTRIC PTOs

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



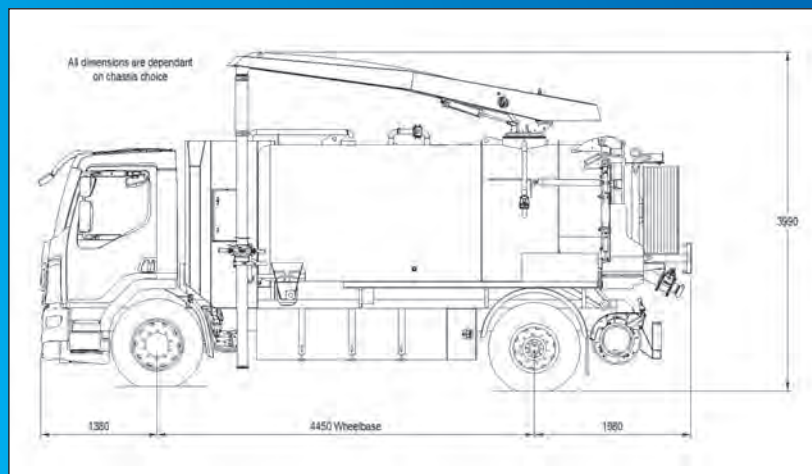
A range of dedicated training courses have specifically been developed for operation, driving and the maintenance of electric commercial vehicles.

- Electric Vehicle hazard awareness training
- Safe High Voltage Isolation
- Electric driver training course





# FEATURES, OPTIONS AND SPECIFICATIONS



FEATURES INCLUDED AS STANDARD	LVC	MVC	HVC
Anti- Vibration Boom Control	✓	✓	✓
Programmable Logic Controller	✓	✓	✓
Heavy Duty Unloader Valve		✓	✓
Automatic Interconnecting Valve	✓	✓	✓
Tank PRV - System PRV - (Type Approved)	✓	✓	✓
Operator handbook plus vehicle certification pack	✓	✓	✓
Quick Acting Gully Boom Valve	✓	✓	✓
Electronic Water Pressure Controller		✓	✓
Jetting Soft Start		✓	✓
Jetting Safe Start		✓	✓
Hydrostatic Water Sensor	✓	✓	✓
Pneumatic purge to jetting system for cold weather	✓	✓	✓
Extended Tank and Paintwork Warranty	✓	✓	✓
MyWhaleFleet Management Tool	✓	✓	✓

OPTIONAL UPGRADES	LVC	MVC	HVC
WhaleCARE Preventative Maintenance Package	✓	✓	✓
Whale Smart Control	✓	✓	✓
High pressure Boom Jets with Replaceable Nozzle Inserts	✓	✓	
Stainless steel internal tank liner	✓	✓	✓
Overnight Water Fill - Front / Rear tank	✓	✓	✓
Heated PPE Locker in Stainless Steel	✓	✓	✓
Gully Boom Swivel Brake	✓	✓	✓
Remote lubrication facility to Gully Boom	✓	✓	✓
Chapter 8 Requirements	✓	✓	✓
Rear Control Panel Cover		✓	✓
Hose Reel Meter with Digital Display		✓	✓
Sideshift Main Jetting Reel		✓	✓
Hydraulic powered Secondary Hosereel	✓	✓	✓
Nozzle Storage Locker		✓	✓
Dedicated Storage for Tools etc	✓	✓	✓
Pulsation facility to Jetting System (Timed Out)	✓	✓	
Solid Sign Storage - 6 off 600mm high	✓	✓	✓
Solid Sign Storage - 6 off 750mm high	✓	✓	✓
Air Operated Grid Lifter fitted on Nearside	✓	✓	✓
Air Operated Grid Lifter fitted at Rear	✓	✓	✓
Hydraulically Operated Grid Lifter fitted on Nearside	✓	✓	✓
PTO & Boom Valve Switch in Gully Boom Control	✓	✓	✓
Additional Lighting and Warning Beacon etc	✓	✓	✓
Data Card Reader or GPRS	✓	✓	✓
Radio Remote Control - 8 Function system	✓	✓	✓
Modular Galvanised Side tipping Debris box	✓	✓	✓
Whale iWeigh system - SGS/HSS	✓	✓	✓
Electronic Directional Arrow	✓	✓	✓
Coalescing De-Oiler	✓	✓	✓
7" Touch Screen Display	✓	✓	✓

**Please Note:** Whale Tankers has a policy of continuous improvement and therefore reserves the right to alter or amend the specifications of its products without prior notice.



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