

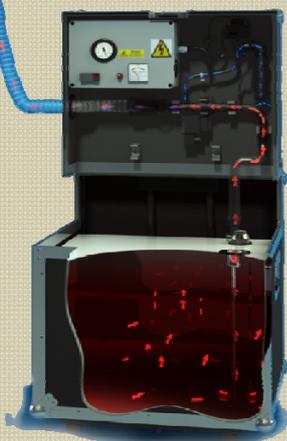
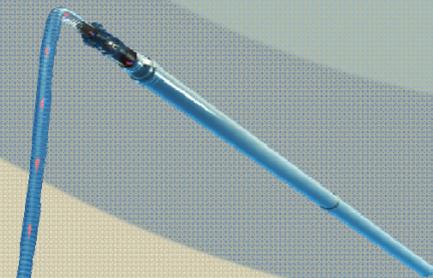
# Transvac Quality Marine Equipment PiranhaVac GEN II Acid Injection Unit



The PiranhaVac  
Standard and  
Mini Variants ...

## Innovative Designs:

The PiranhaVac Acid Injection Unit is an innovative maintenance tool which has been specifically designed to effectively de-scale the internal bore of vacuum mains without causing disruption to the operation of the vacuum sanitary system. Features include...



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## How it Works .....

The PiranhaVac Acid Injection Unit is connected to the vacuum system via the extreme end of each line. Each unit comprises a Solenoid Valve, Electronic Timer, Battery Power Supply (Rechargeable), Chemical Tank and Interface Hose Connection .

The Chemical Solution is usually delivered to the vacuum mains by a 1" PVC Hose which is connected to the line using a 1" Quick Release Camlock Connection and Ball Valve Arrangement.

The integral holding tank is filled with a chemical solution comprising 5 parts water to 1 part Orthophosphoric Acid (Note!! can be variable depending on strength required).

The prepared solution is introduced into the sanitary system vacuum main by pressure differential which is created by periodically opening the vacuum main (via the preset solenoid valve arrangement ) which, in turn, allows ambient air to be inducted into the manifold creating a venture effect. The chemical solution is drawn up the manifold where it is mixed with air and forced into the vacuum main in a spiral action where it coats and dissolves the calcinates and effectively removes the linkage from the internal bore.

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## Benefits .....

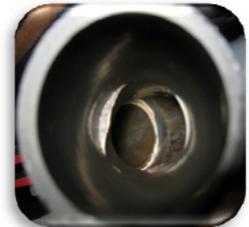
The PiranhaVac Acid Injection Unit is a "Cleaning Tool" which can be used easily and effectively by the operator to remove the buildup of calcination (on an annual basis) as an onboard maintenance task. In effect, the Operator/Owner will not require specialist companies to attend the vessel during drydock or emergency periods in order to clean and remove calcinations and will gain considerable savings towards maintenance/running costs.



Before.....



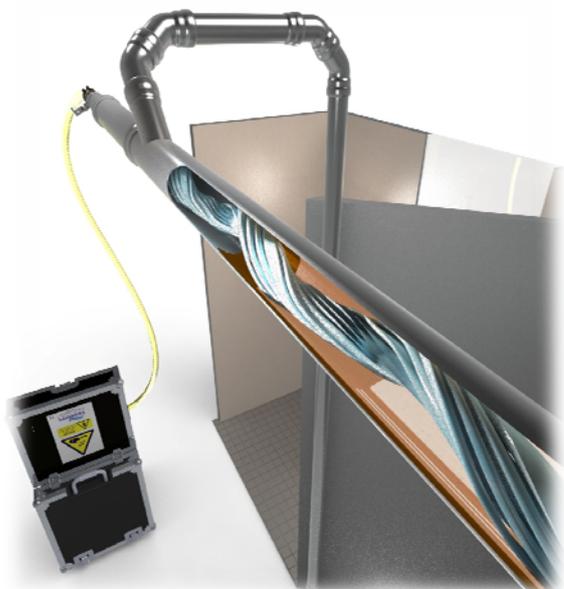
After.....



## Design Features .....

### Each PiranhaVac Unit Includes...

- Each unit is self-contained in its own heavy duty shipping case which includes an integral wheel set & retractable handle to aid mobility.
- Integral control panel to provide automatic operation. Control panel includes a battery gauge & vacuum gauge to monitor the status of the re-chargeable battery & the availability of operational vacuum.
- Integral re-chargeable battery to power the control panel and timer unit. There is no requirement to access power supplies, thereby enabling the user to site and operate the unit in the most tightest of spaces. **Note!!** A reduced height unit (PiranhaVac Mini) is also available for use onboard smaller specialist vessels and yachts.
- A 25 Litre chemical tank manufactured in AISI 316 Stainless Steel complete with air vent and 1" Quick Release Coupling & ball valve arrangement.
- A solenoid air-valve arrangement complete with silencer to enable chemical to be automatically administered during quiet hours .
- Quick release 1" flexible hose & coupler to interface vacuum pipework.



### Contact Transvac:

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