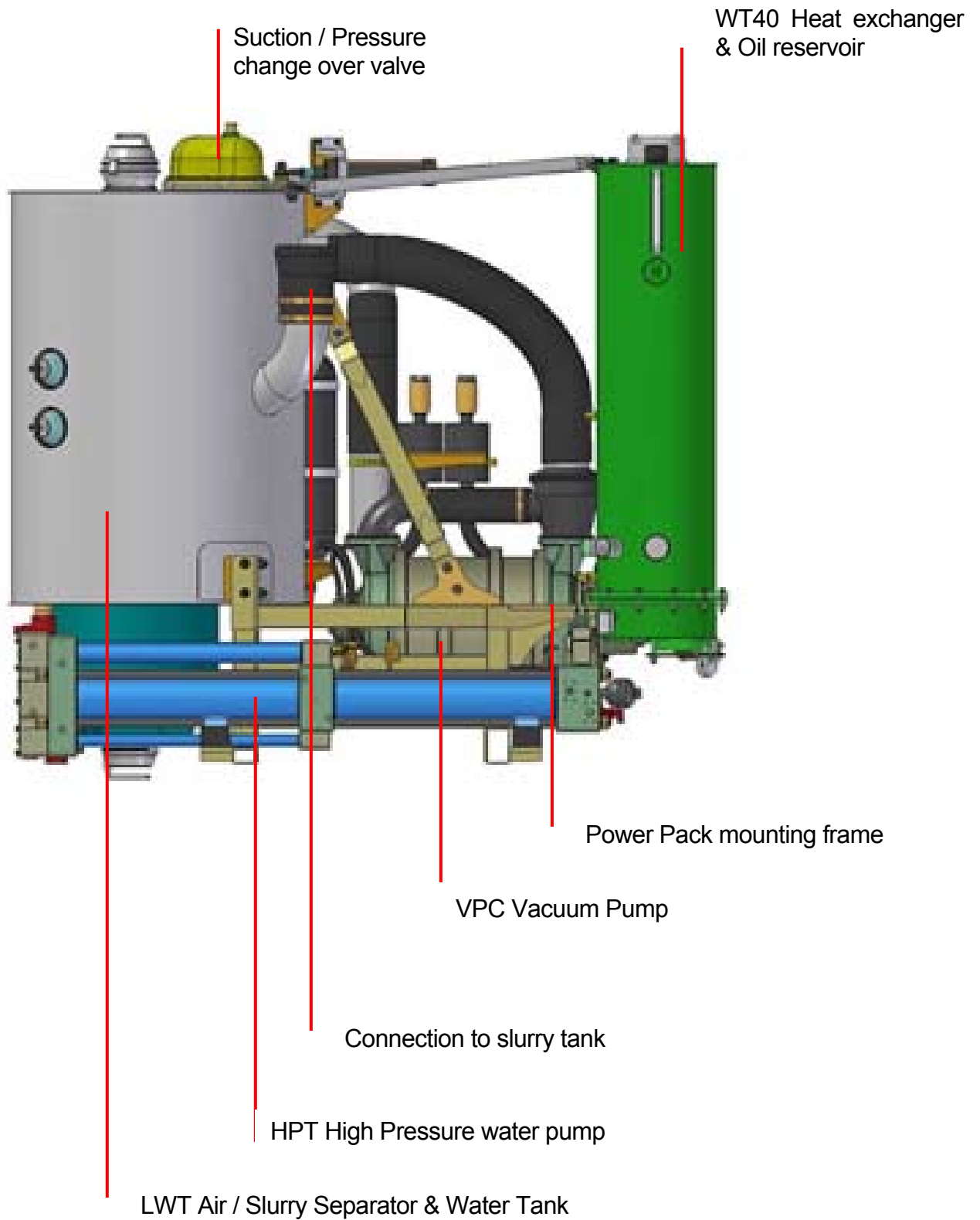


## Power Pack

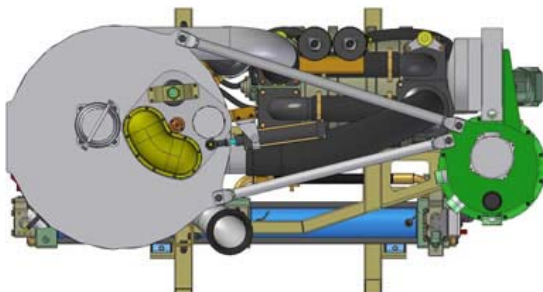


## The Power Pack includes:

- HPT High Pressure water pump,
- VPC Vacuum Pump
- LWT air / slurry separator and water tank
- WT40 Oil reservoir with heat exchanger
- hydraulic oil cooler
- hydraulic lines to the oil reservoir
- hydraulic return line Filter
- hydraulic high temperature / low oil level safety system
- main slurry tank hoist cylinder support incorporated in the power pack mounting frame.
- Vacuum pump water drain lines
- Vacuum pump Intercooler silencers
- Vacuum pump automatic lubrication system
- High pressure accumulator for HPT pump
- LWT separator drain valves
- Power pack mounting frame brackets to mount onto truck sub frame



Width only 1.020 m, (40 inch)



**COMPACT DESIGN – READY TO WORK**

## Power Pack Mounting Frame:

The frame is designed to be installed on the truck chassis sub frame, between the cabin and the main slurry tank. The power pack mounting frame supports the following components:

- HPT High pressure water pump
- VPC Vacuum pump
- WT 40 Heat exchanger & Oil reservoir
- LWT Slurry / Air separator & Water Tank
- Main slurry tank hoist cylinder mountings

The frame is sand blasted, primed, finished in chip resistant two pot paint.

## Hydraulic System

The hydraulic system is designed for optimum energy performance for the power pack.

If required a complete Hydraulic and PTO system could be supplied to service the entire hydraulic requirement of the truck. (hose reels, suction boom, tank tilt, or water recycling)

The hydraulic components would include:

- Main variable displacement hydraulic pump
- The main pump can be driven from the truck PTO or a separately installed PTO.
- VPC hydraulic drive can also be piggy backed (tandem with water pressure pump) depending on the size of the VPC.

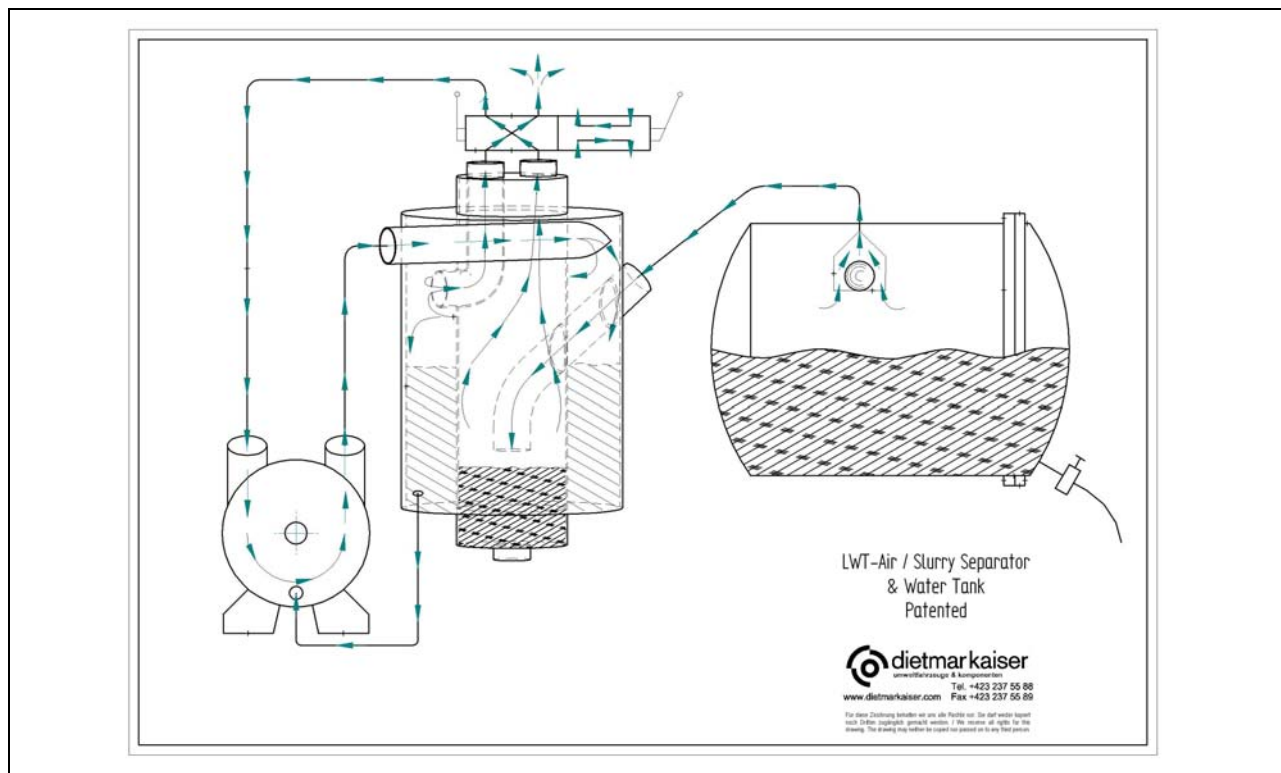
All systems are designed to operate on either mineral based hydraulic oil or synthetic bio degradable hydraulic oil.

## LWT- Air / Slurry Separator & Water Tank

Patent angemeldet CH 2003 1024/03  
 Patent angemeldet EP 04 735 185.3  
 Patent pending US 10/560,240  
 Patent pending JP 515617/2006

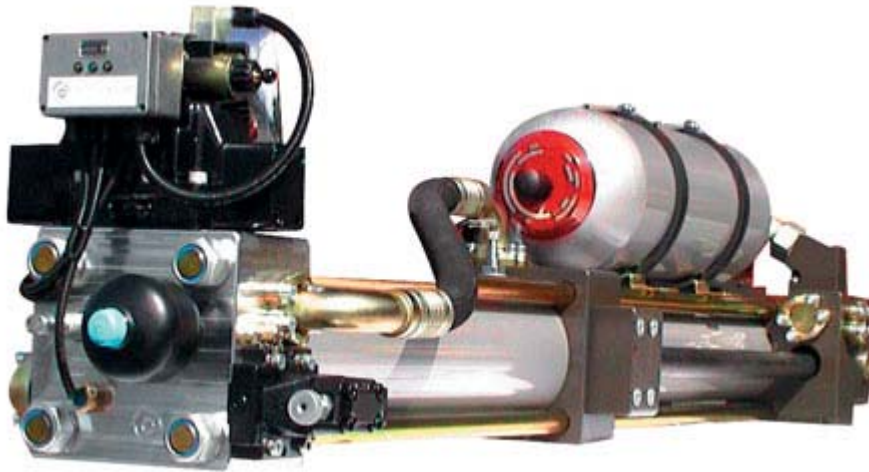
The combined water tank and separator is a very compact design and its operation is controlled by an integrated suction / pressure 4 way valve

Important features of this unit are listed below:



- a separate operating water tank prevents the contamination of fresh – cleaning water
- short suction lines for optimum vacuum performance
- easy cleaning of the cylindrical separators
- galvanised or stainless steel (option) tanks
- cyclone system for operating water / air separation
- simple pneumatic operated change over valve
- full size air pressure relief valve allows quick and complete dumping of air
- sight glass for water level indication

## HPT High Pressure Water System



HPT

The high pressure water system can be supplied with a range of pumps.

[HPT 30](#), [HPT 50](#), [HPT 70](#) water pumps (see detailed HPT high pressure pump brochure)

- Water flows: 100 – 500 l/min; (Imp. 22 – 90 G/min) (US 26 – 132 G/min)
- Water pressure: up to 200 bar, (2840 psi)

HPT high pressure pump features include:

- Power sensing open loop pressure- & flow regulated drive system for optimum pump performance
- no water by-pass valve necessary (energy saving and no wear)
- anti vibration mountings fitted between pump and power pack frame
- Pressure and flow are step less / variable between min. and. max values
- CE – approved safety system
- Patent reg. on design

## WT 40 Heat Exchanger & Oil Reservoir



These two components are an integrated unit and include the following features:

- oil reservoir is sized to accommodate all hydraulic components like hose reel-, boom, tank tilt, rear door drives, etc
- the heat exchanger is sized for optimum cooling performance at continuous maximum load
- full flow hydraulic return filters
- the tank is fitted with additional ports to allow for other hydraulic components

## Vacuum System



The vacuum suction system can be specified with a range of pumps.

### VPC vacuum pumps with integrated Intercooler

VPC 20, VPC 60, VPC 80 vacuum pumps (see detailed VPC vacuum pump / compressor brochure)

- flows up to 3100 m<sup>3</sup>/h, 1820 cfm,
- max. vacuum 0,9 bar,
- max. pressure 0,5 bar.

The pump components have a special surface treatment which guarantees excellent resistance to aggressive vapours. The low weight of the vacuum pumps allows the load capacity of the truck to be maximised.

The VPC – vacuum – pump is a *water ring pump*. These vacuum pumps system do not have any internal mechanical contact, so they have a very long service life.

The VPC pump features include:

- standard Intercooler which guarantees constant water temperature during continuous operation, with minimum requirement of pump operating water. This allows maximum truck payload
- low noise level operation
- specially suitable for Hazardous waste handling and within the petrochemical industry due to the low temperature exhaust of the pump
- absolutely oil free exhaust, operates without oil lubrication