

**REMEDICATION PILOT TRIAL UNIT  
MPVE or SVE  
TRAILER MOUNTED**



Vacuum blower:	Air flow 300 m <sup>3</sup> /hour @ -5 kPa Vacuum to -50 kPa ( 100 m <sup>3</sup> /hour) ( performance with cooling system and GAC connected)
Liquids pump:	Max. discharge head: 150 kPa Max. pumping rate: 25-30 LPM (depends on system vacuum)
Vapour GAC:	2 x Drums, Each 40 litre bed, Each approx 20kg GAC
Power:	3 Phase 415V, 50 Hz, 20 Amps with neutral (5 pin) Control Panel - 240V
Dimensions:	3.90m x 2.35m x 2.50m (high)

**System Features:**

- MPVE and SVE capability
- Vacuum blower (Roots), air dilution valve, vacuum relief valve
- Removal of Volatile Organic Compounds (VOC's) from vapour stream through two GAC filter drums
- Fluids-vapour separation in a conical cyclone type separator
- Liquids transfer tank with sight glass for observation of LNAPL. Three level control points for automated control of discharge pump.
- Liquids transfer pump: automatic operation controlled by level sensors and PLC; manual speed control
- Vapour stream cooling system (fan and radiator) between blower exhaust and GAC drums
- Data collection:
  - Vacuum and pressure gauges
  - Thermometers pre-blower and pre GAC drums
  - Access points for anemometer measurement of air flow and temperature, or for sampling
  - Sampling points for collection of vapour and liquids
  - Sight glass on liquids transfer tank to observe PSH-water interface
  - Volumetric flow meter (totaliser) on liquids discharge line
- Safety:
  - ExE motors, wiring for Zone 2, include intrinsic barriers. Earthing wire and stake
  - System shut down at high level on liquids transfer tank
  - Vacuum relief valve starts opening at -60 kPa. Emergency stop button
- Handy toolbox: 1meter long x 430mm wide x 400mm high
- Power requirements: 3 Phase 415 V, 50 Hz, 20 Amps with neutral (5 pin)  
Minimum generator capacity required is 20 kVA  
10 meter power lead and a phase rotation adaptor supplied with the unit