

The **STEP OILTOOLS** TwinVac system is an efficient and economic method of transporting wet and dry material from source to containment. Utilising liquid ring pump technology the Twin Cuttings Vac 6000 offers a reliable alternative to traditional rig vacuum solutions with improved safety features and ease of operation and maintenance.

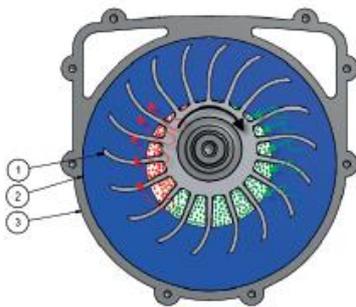
Twin Cuttings Vac – 6000 is a dual vacuum system containerised in a sound proof enclosure to deliver a power cuttings or rig vac solution with 100% redundancy. Two liquid ring vacuum pumps are packaged in a DNV 2.7.1 skid with a common liquid cooling circuit and scrubber tank to increase flexibility and ease with installation and provide a reliable cuttings vac solution in a single lift.

Liquid ring Benefits

- Simple, strong construction
- Compact design, small footprint, high capacity
- Reliable operation and low maintenance costs
- Not sensitive to particles, dust, water etc.
- Environmentally safe with water as a sealing media
- Can be used in hazardous areas
- Low noise level <80 db
- ATEX approved pumps for Zone 1
- DNV or ABS approval on request



Operation Principle of a Liquid Ring Vacuum Unit



Operating Principle

The liquid ring vacuum pump uses only water as a sealing media and there is no mechanical contact between the rotating parts inside the pump.

When the pump rotor is turning, the water is pushed against the pump cover by centrifugal force. As the rotor is placed in eccentric position inside the pump the sealing works as a piston between the rotor blades.

1. Rotor
2. Water ring
3. Pump Cover

Specifications

Dimensions: (LxBxH)	3.6 x 2.4 x 2.6m
Weight: (estimate)	11,000 kg
Max vacuum:	27" HG.
Max Pressure:	2 barg
Suction Cap:	6,000 m ³ /hr (3531 cfm)
Pump Type:	Liquid Ring
Pump:	2 x KM2700's
Power Supply :	380 / 460V // 50 / 60 Hz
Power:	75 Kw / 100 HP each pump Total: - 200 HP
Certification:	DNV 2.7.1 ATEX Zone 1 / 2



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