

GUARDA EDGE POWER CUTTER

WITH TRI-VAC TECHNOLOGY

DEADLY DUST
DEMANDS A
KILLER SOLUTION

PATENTS PENDING



GUARDA

WORK HARD. BREATHE EASY.

Tri-Vac Technology

- 1. Silica dust control via a combination of water delivered to the blade guard and vacuum suction
 - 2. Helps move harmful fumes such as Carbon Monoxide away from the operator via vacuum sction and a hose attached to the muffler
 - 3. Slurry control via vacuum suction to the blade guard.
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- Fumes, dust and slurry are moved down the same hose and away from the cutting operations
 - No electricity & water at the saw
 - Quick and easy to set up
 - Suitable for general purpose concrete cutting
 - Lightweight for ease of use
 - Suitable for 15inch (380mm) blades with 6 inch (150mm) cutting depth.

BENEFITS COMPARISON - GUARDA VS CONVENTIONAL SAWS

	Wet Cutting	Dry Vacuum (LEV)	Guarda (Water & vacuum combined)
Silica Dust (Hazardous when breathed in)	Dust contained in water mist	Residual dust released into the breathing zone. Dust present during clean up	✓ Very low levels of silica dust detected in breathing zone*
Slurry (mess must be cleaned up after cutting)	100% released onto ground and walls	N/A as no water used	✓ Very low level* (approx 99% captured)
CO fumes (Create a hazard when cutting indoors or in enclosed spaces)	Emitted from exhaust when using petrol saws	None with electric saws. Emitted from exhaust when using petrol saws	✓ Removed safely to outside area
Set up/Clean Up	Slurry clean up required	Dust clean up required	✓ Very little clean up required
Cost	Clean up and disposal costs	Purchase costs can be high especially if 3-phase power required	✓ Value for money to purchase with low operating and clean up costs

*As per independant testing in May 2019

Note: Silica dust and slurry results depend upon correct use of equipment with water and vacuum connected as per operating instructions.

BUSTS DEADLY DUST

FUMES enter here.

A water jacket is located around the exhaust ports for cooling the engine exhaust before it enters the vacuum tube. The tube is cool to touch during operation. The same water is used on the blade guard.

SLURRY vacuumed down here.

Vacuum hose attached here. The fumes, dust & slurry mixture removed away from the cutting area via attached wet vacuum.

HOW THE GUARDA EDGE POWER CUTTER WORKS...

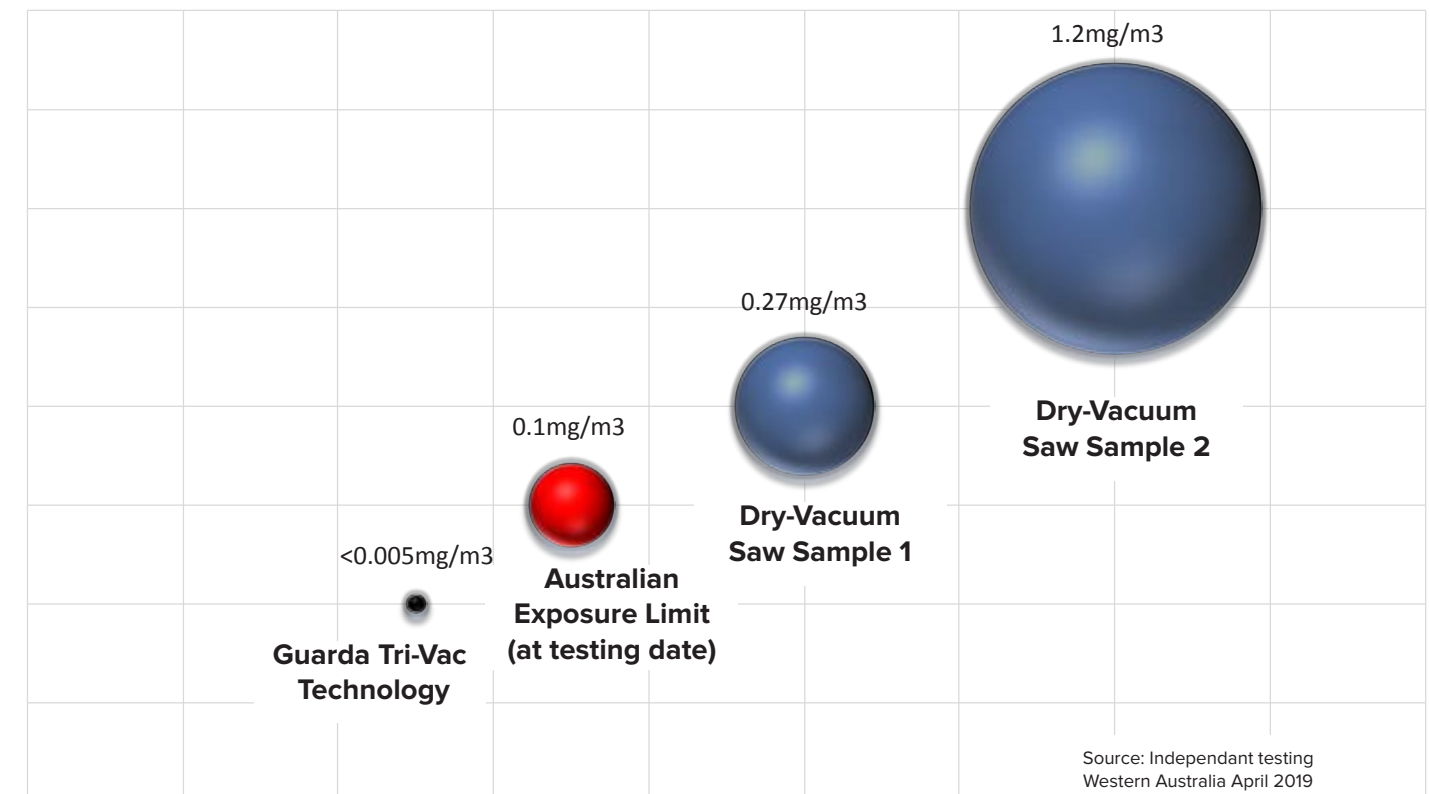
Water is sprayed into the blade guard, towards the rear, to prevent spray back. This water mixes further with the dust and slurry already created to make a more fluid waste, preventing clogging.

Water is sprayed onto the blade close to the center, in a forward direction to prevent spray back. The peripheral forces of the blade take it right to the cutting edge so the water is used efficiently.

The peripheral forces of the blade automatically force the cutting debris (slurry) into the throat of the blade guard where there is vacuum suction to draw the debris upwards.

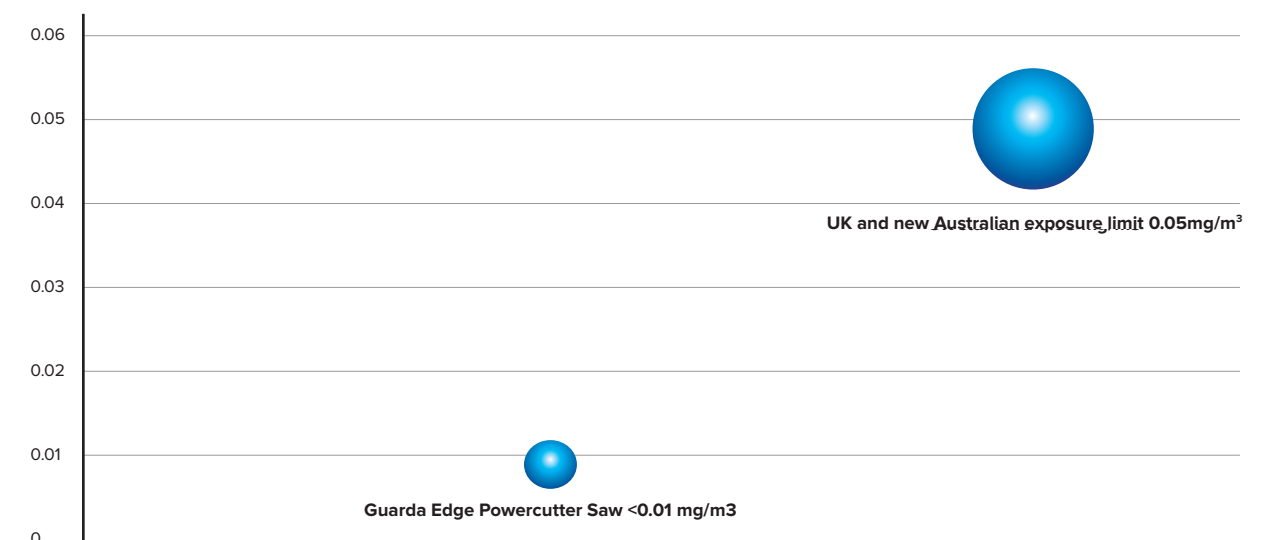


- ✓ Cutting brick wall
- ✓ Guarda silica dust reading < 0.005 mg/m³
- ✓ Dry vacuum (LEV) Silica dust readings, 0.27 and 1.2 mg/m³

Silica Dust Comparisons (mg/m³) Guarda Tri-Vac Technology vs. Dry Vacuum Technology

- ✓ Cutting concrete slab to 6 inch depth
- ✓ Total cutting time 2 hours
- ✓ Guarda Edge Silica dust reading < 0.01 mg/m³
- ✓ UK and new Australian exposure limit 0.05 mg/m³

Guarda Edge Power Cutter vs Australian/UK Exposure Limit



- ✓ **HAVS - 4.9m/s²***
- ✓ **Noise 108db**
- ✓ **Silica dust, Carbon Monoxide and Slurry removed by vacuum system.**

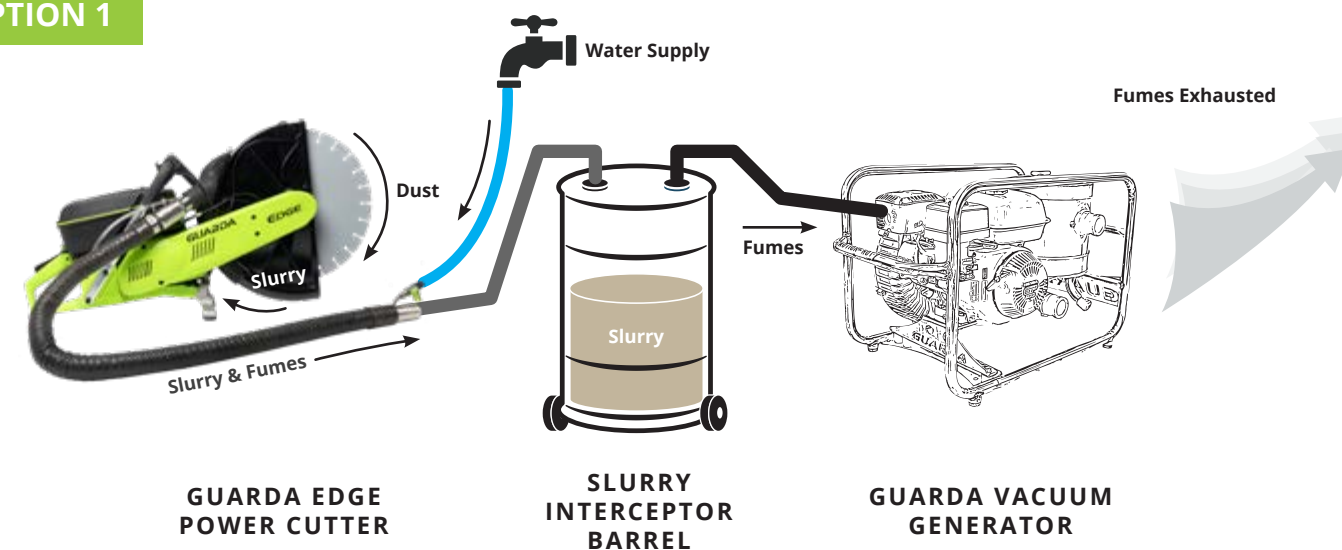
Must be used with a suitable wet vacuum system and water supply on as outlined in the operating procedures.

READ THE OPERATING PROCEDURES AND WARNINGS BEFORE USING THIS PRODUCT. FAILURE TO DO SO COULD BE RESULT IN SERIOUS INJURY, PROPERTY DAMAGE OR DEATH.

*As per independant testing October 2019

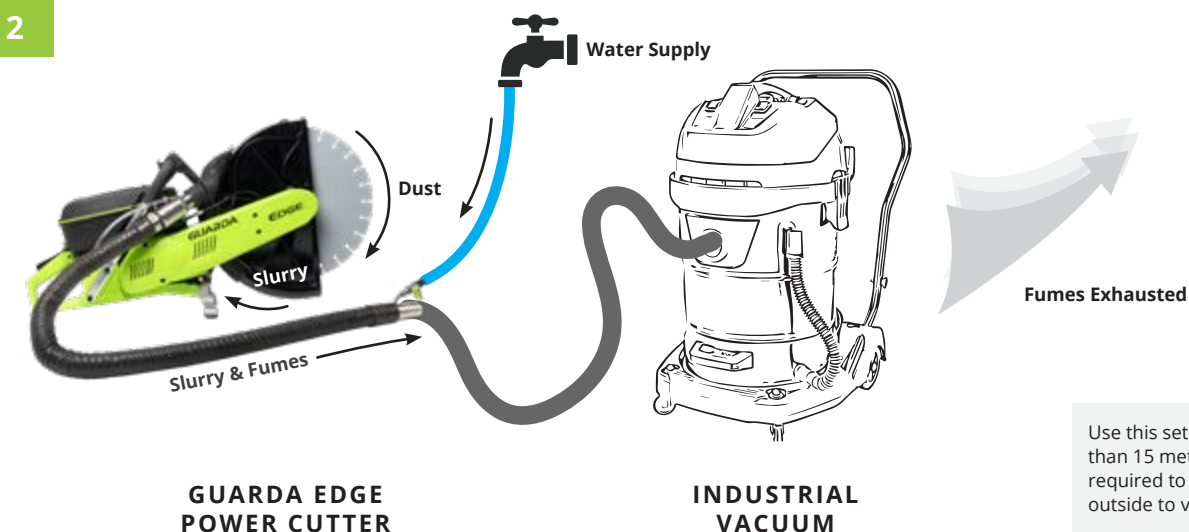
USE WITH GUARDA VACUUM GENERATOR

OPTION 1



USE WITH 3 MOTOR ELECTRIC VACUUM (*LESS THAN 15 METRES OF HOSE*)

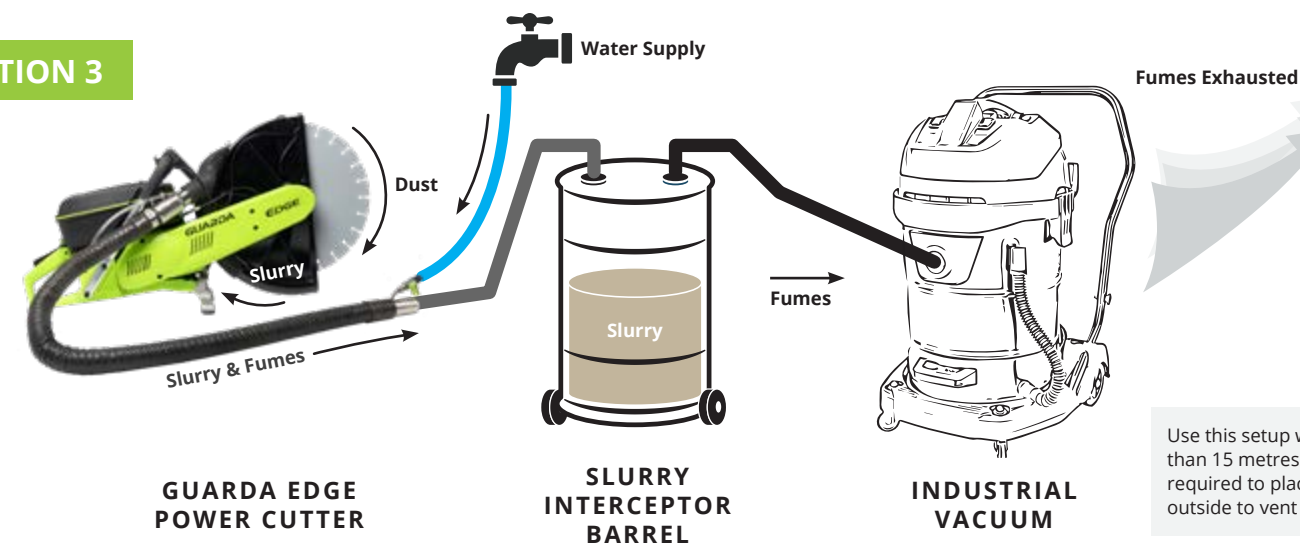
OPTION 2



Use this setup when **less** than 15 metres of hose is required to place vacuum outside to vent fumes.

USE WITH 3 MOTOR ELECTRIC VACUUM (*MORE THAN 15 METRES OF HOSE*)

OPTION 3



Use this setup when **more** than 15 metres of hose is required to place vacuum outside to vent fumes.

GUARDA

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DISTRIBUTED BY



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