



# EnviroLAV Toilet System

The EnviroLAV is a self-contained, highly portable and environmentally friendly toilet system, that is perfect for the mining industry.



enviroLAV



The EnviroLAV  
Toilet System

Emergency refuge chambers and auxiliary mining products



# Company Profile

MineARC Systems is the global leader in the manufacture and supply of emergency refuge chambers used in the underground mining, tunnelling, and chemical processing industries.



MineARC Systems also supplies a wide range of auxiliary mining products; from general mining, to industrial hygiene and mine safety.

With over 15 years experience in the industry, our dedication to ongoing research and development has kept us at the forefront of mining equipment technology.

MineARC has offices and manufacturing facilities in Australia, South Africa, Chile, China and the United States, as well as a strong distribution network worldwide.

MineARC manufactures and supplies refuge chambers and auxiliary mining products to operations in over 40 countries world-wide.

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[www.minearc.com](http://www.minearc.com)



ISO 9001 Quality Rating



# EnviroLAV Toilet System

The EnviroLAV is a robust, self-contained, steel toilet system designed to be simple to operate and maintain. The system is designed to meet the highest safety standards and can be used both above and below ground wherever there is access to compressed air and water. Alternatively, the water storage tank can be maintained manually.

The structure of the EnviroLAV consists of latrine facilities mounted on top of a biological treatment plant, allowing waste matter to be deposited directly into the biological treatment process. Biodegradable, non-toxic EnviroZYME solution is placed directly into the toilet to treat the waste, eliminating the need for handling of hazardous chemicals.

The toilet has minimum effluent odor and only requires emptying every 18-24 months, depending on usage. The unit therefore dramatically reduces the amount of contact between employees and the waste matter (as is found in servicing conventional latrines), thus creating a safer work environment.

Compared to the MineARC EnviroLAV, alternative chemical latrines such as “Porta-Potties” require 10 times the standard amount of labor for servicing and maintenance. With the average chemical toilet requiring up to 13 hours to be removed from underground, emptied, and cleaned each week, the MineARC EnviroLAV delivers a substantial saving per year thanks to reduced time and man power.





# Features In Detail

## Structure

The steel system consists of latrine facilities mounted on top of a biological treatment tank, allowing waste to be deposited directly into the plant for immediate treatment.

The structure itself is made from 3mm and 5mm solid steel plate, with a solid channel and rectangular hollow section (RHS) base. The EnviroLAV is ideally suited for the corrosive mining environment; the whole unit is painted inside and out to prevent against corrosion and aid rust resistance.

## Dimensions

Height	Width	Length	Weight
2,555 mm 100"	1,700 mm 67"	1,700 mm 67"	1000 kg 2205 lbs

## How the system works

The MineARC EnviroLAV is 100% air driven. Inside the treatment tank, micro-aeration filters continuously work to break down effluent aided by the enzymes. The filters continuously oxygenate the waste until only microscopic particles remain in the water. Finally the resulting water evaporates out of the toilet via an external air vent.



## Maintenance

Being a self-contained unit, the EnviroLAV requires minimal maintenance. On commissioning, the EnviroLAV requires just 1 x 5 Ltr bottle of EnviroZYME solution to be added to the waste treatment tank. With every flush thereafter, the powerful enzyme solution is deposited into the waste treatment tank. A simple weekly check is required to ensure that compressed air is connected and that water level is sufficient (if not connected to mine water).

Depending on usage, the waste tank requires emptying just once every 18-24 months, making it a vastly more cost effective option for mine sites when compared to conventional 'Porta-Potty' units currently on the market.

EnviroZYME solution has been specially formulated for use with the EnviroLAV toilet system. This non-toxic, environmentally friendly solution contains bacteria and powerful enzymes that are highly effective at reducing odours and accelerating waste breakdown.



- Eliminates odors
- Totally eco-safe & biodegradable
- Accelerates organic waste breakdown
- Blend of naturally occurring micro-organisms
- Complete concentrated blend of beneficial septic microbes

5Ltr



# enviroZYME



## Operating Costs

The EnviroLAV has the lowest operating costs by a significant margin when compared to composting and stand alone toilet systems.

Typical man-power (maintenance) requirements per month

Composting Unit	122hrs / month
Stand Alone Unit	117hrs / month
The MineARC EnviroLAV	29hrs / month

## Transportation

The EnviroLAV's robust design means transportation and installation is easy. Set up (connection to mine air and mine water, if applicable) is a one-man job.

The EnviroLAV features balanced forklift slots on front and rear for ease of transportation. The reinforced base of the unit is constructed with channel and RHS steel to support the unit during transportation and general wear and tear.



# Features Summary



Simple to install, no moving parts

100% Air driven

Solid steel, corrosion-resistant structure

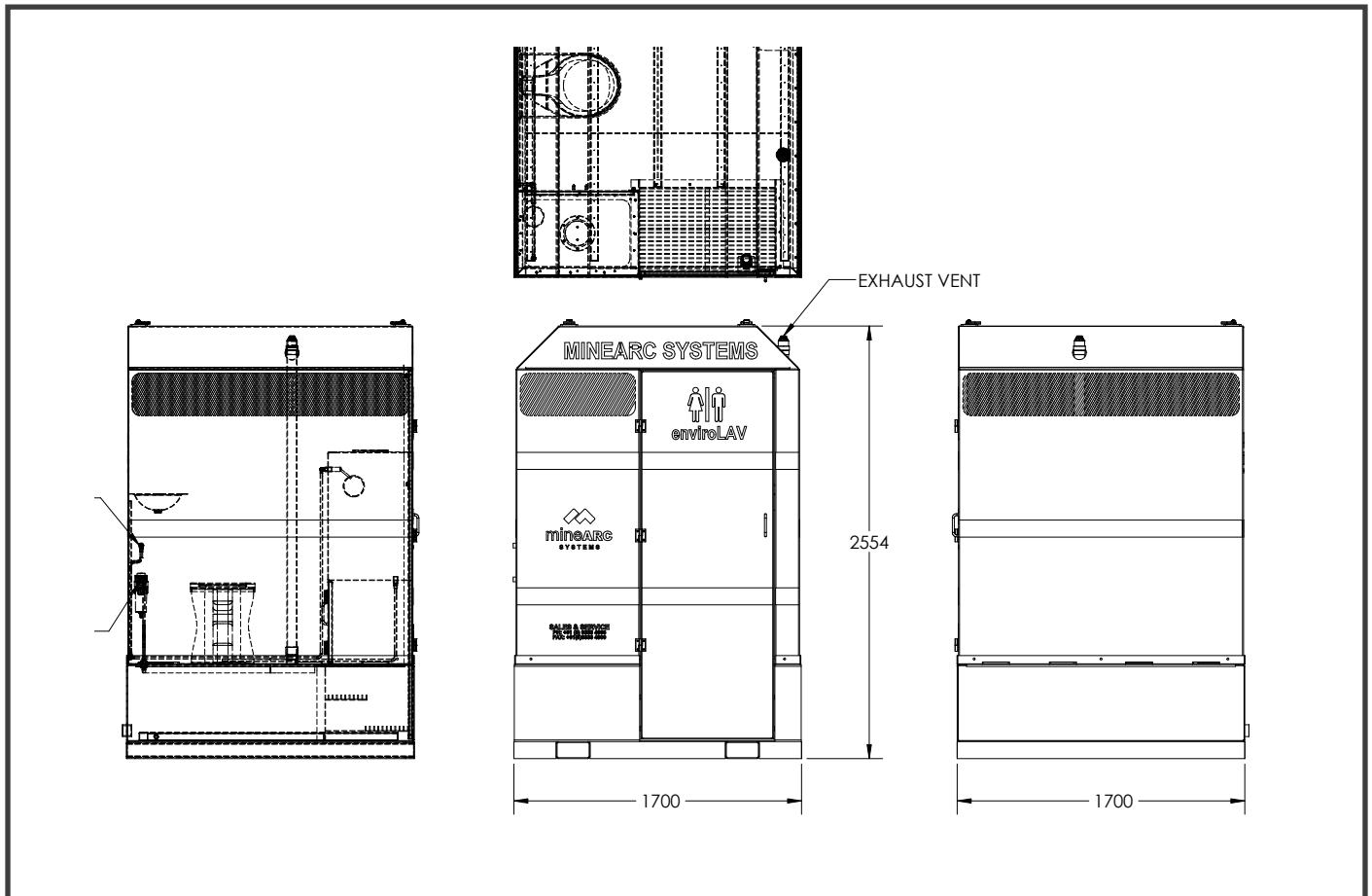
Easy to transport

Enviro-friendly EnviroZYME solution

Low maintenance - waste tank requires emptying every 18-24 months

Highly cost effective over other portable alternatives

Durable 10 year+ life cycle







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Emergency refuge chambers and auxiliary mining products



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