

The EnviroLAV is a self-contained, highly portable and environmentally friendly toilet system, that can be used both above and below ground.



MINEARC SYSTEMS

AND STREET ST

Standard Pneumatic EnviroLAV Toilet ET-PN-S



# Company

## **Profile**

MineARC Systems is the global leader in the manufacture and supply of emergency safe refuge solutions for the mining, tunnelling, chemical processing and disaster relief industries.

With over 20 years' experience, our dedication to ongoing research and development is driven by our key focus to continually offer the best and most advanced safety solutions on the market.

Our team of qualified engineers, electrical designers and technical experts form a global network across several international locations including:

- Perth. Western Australia
- Johannesburg, South Africa
- Dallas, Texas
- Santiago, Chile
- León, Mexico
- Beijing, China
- Reading, UK

This allows MineARC to provide 24 hour service and engineering support to our expanding list of clients in over 65 countries across the globe.

All MineARC Refuge Chambers and Safe Havens comply with the highest international regulations and recognised 'world's best practice' industry guidelines. Our key focus on quality control and product advancement has meant that MineARC Refuge Chambers have successfully saved lives in multiple real life industrial emergencies around the globe.

www.minearc.com





Bureau Veritas ISO 9001:2008 Quality Management



MineARC® HRM Refuge Live Risk Assessment Testing



Australian C-Tick Standards: AS4100 1998, AS3570.1-18, AS2208,AS3000, AS1716-15



Canadian Standards Association (CSA)



United States National Electrical Code (NEC) 2013/14



European CE Certified to environmental impact.



DUAL and a smaller COMPACT unit for confined spaces. It is now

also available in a Modular Design for transport through areas with

height limitations.

# **Standard Features**

MineARC's EnviroLAV is the perfect solution for both above and below ground industrial scenarios.

Featuring an integrated waste tank, MineARC's unique EnviroZYME solution is deposited with every flush; working simultaneously with the system's aerobic technology to quickly break down waste.

Available in male, female and unisex configurations, the EnviroLAV provides the much needed option of a private toilet facility for women in industry. It's robust design means transportation and installation is a simple one-person job.











Choose an operating system based on available access to utilities in the area. Depending on the location onsite, access to power or compressed air may not be readily available. MineARC will work closely with clients to determine the best solution based on their existing site set-up.





#### PEDESTAL OR SQUAT PAN FACILITIES

It is important to consider cultural factors when sourcing the right facilities. Geography and cultural preference may impact toilet design requirements. MineARC Systems can work closely with site to provide a toilet solution to best suit the needs of their personnel.







#### FIXED OR MODULAR CONSTRUCTION

The layout of and access to a site can restrict toilet positioning, especially when it comes to height requirements. The EnviroLAV is available in both fixed and modular configurations, allowing sites to easily transport units into place, whilst still enjoying flexibility when it comes to choice.







#### MALE, FEMALE OR UNISEX CONFIGURATIONS

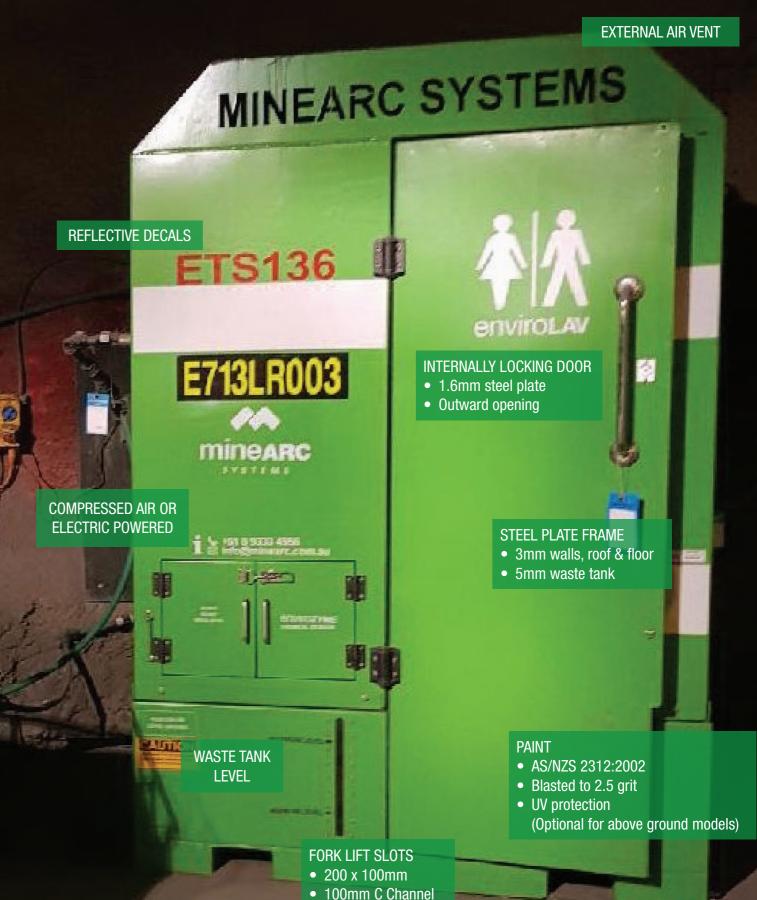
Accommodating the needs of all personnel onsite is essential. A site must consider how they can satisfy these requirements through the supply of single-sex, unisex or dual capacity toilets as well as additional sanitary options. Preferences may also impact the frequency of use during each shift.







# **EnviroLAV Exterior**



## **EnviroLAV**

# **Fixed Configurations**

## **Single**



CODE	MODEL	SPECIFICATIONS						
		н	w	L	WEIGHT (WET)	TANK		
ET-PN-S	Single Pneumatic	2.5m / 8'2"	1.7m / 5'5"	1.8m / 5'9"	2800kg / 6172lbs	1273L / 336gal		
ET-EL-S	Single Electric	2.5m / 8'2"	1.7m / 5'5"	1.8m / 5'9"	2800kg / 6172lbs	1273L / 336gal		

- . MineARC's original EnviroLAV Toilet System for the mining industry
- Offers a reasonably compact footprint of less than 3m2
- Available in male, female and unisex configurations

## **Compact**



		SPECIFICATIONS					
CODE	MODEL	Н	w	L	WEIGHT (WET)	TANK	
ET-PN-C	Compact	2.45m /	1.26m /	1.3m /	1700kg /	460L /	
	Pneumatic	8'1"	4'1"	4'2"	3747lbs	121gal	
ET-EL-C	Compact	2.45m /	1.26m /	1.3m /	1700kg /	460L /	
	Electric	8'1"	4'1"	4'2"	3747lbs	121gal	

- Compact, portable design, useful for tight mining confines or where space is a limiting factor
- Small footprint of less than 1.5m2
- Removable steps
- Available in male, female and unisex configurations

#### **Dual**



		SPECIFICATIONS						
CODE	MODEL	Н	W	L	WEIGHT (WET)	TANK		
ET-PN-D	Dual	2.5m /	2.25m /	1.8m /	3830kg /	1450L /		
	Pneumatic	8'2"	7'4"	5'9"	8444lbs	383gal		
ET-EL-D	Dual	2.5m /	2.25m /	1.8m /	3830kg /	1450L /		
	Electric	8'2"	7'4"	5'9"	8444lbs	383gal		

- Dual toilet configuration, allowing for gender-specific options
- Offers a significant economic advantage over the standard model in scenarios where more than one toilet is required
- Available in male/female, unisex and single sex configurations



## **EnviroLAV**

# **Modular Configurations**

Driven by industry demand, the Modular EnviroLAV range has been engineered specifically for low seam mines or transport through areas with height limitations. With a unique collapsible top, the toilet can be reduced in height for transportation and re-assembled once it is placed in position.







### **Single Modular**



CODE		SPECIFICATIONS					
	MODEL	Н	w	L	WEIGHT (WET)	TANK	
ET-PN-SM		2.26m raised 1.65 lowered	1 /m	1.7m	2496kg	960L	

- MineARC's original EnviroLAV Toilet System for the mining industry, now in a Modular configuration
- Offers a reasonably compact footprint of less than 3m2
- Available in male, female and unisex configurations

#### **Dual Modular**



CODE		SPECIFICATIONS					
	MODEL	Н	w	L	WEIGHT (WET)	TANK	
ET-PN-DM	Dual Pneumatic	2.26m raised 1.65 lowered	2.25m	1.7m	2800kg	1000L	

- Dual toilet configuration, allowing for gender-specific options
- Offers a significant economic advantage over the standard model in scenarios where more than one toilet is required
- Available in male/female, unisex and single sex configurations



#### **Standard Features**

The Cold Climate EnviroLAV's robust structure features a steel base frame with forklift slots; providing access on all four sides of the toilet for easy manoeuvrability. Made for durability, these toilets come with a 11 gauge steel corners and roof panels supporting 100mm thick insulated aluminum-clad panels.



CODE	MODEL	SPECIFICATIONS					
		Н	w	L	WEIGHT (WET)	TANK	
ET-EL-CC-D	Dual Electric	2.91m / 114.50"	2.49m / 98"	1.65m / 65"	2,177kg / 4,800lbs	1,393L / 368gal	

- Powder coat paint finish
- Sloped roof for rain run-off and reduced snow load
- Removable entry steps for unobstructed lifting access
- Low maintenance empty as little as once every 12 months
- Durable 10+ year life cycle
- Insulation & heating systems

## **Heating and Insulation**

The Cold Climate EnviroLAV comes equipped with R-28 insulation and multiple heating sources to keep all systems working in even the most extreme conditions. The toilet is heated by ceiling-mounted radiant heat panels to quickly warm internal objects and supply continual heat to the floor panel; aiding in evaporation. It also contains a 320L (85 gallon) flushing tank heater that pre-heats the sink and toilet water.

The toilet contains a fully insulated 1,400L (370 gallon) waste tank that features an in-line adjustable heating element that pre-heats the air before it is supplied to assist in the evaporation process.



# Waste Transfer Tank is a fully portable unit that allows for efficient waste removal, rendering relocation of the EnviroLAV toilet obsolete. Utilising a gravity feed for the transfer of waste from the EnviroLAV to the waste transfer tank, the unit can hold up to 2000L, equivalent to two full standard EnviroLAVs. The pneumatic Waste Transfer Pump is an additional option, allowing the transfer of waste from the EnviroLAV to the Transfer Tank without the need for lifting.



# Feature Summary



Solid Steel, corrosion resistant structure

**Easy to transport** 

**Eco-friendly EnviroZYME solution** 

Minimal emptying - as little as every 12 months

Use above or below ground

#### **Maintenance**

A fully self-contained unit, the EnviroLAV Coal-Spec requires less maintenance than any other portable toilet on the market. On commissioning, the EnviroLAV requires MineARC's EnviroZYME solution to be added to the waste treatment tank. With every flush thereafter, the powerful enzyme solution is deposited into the tank.

The EnviroLAV can last up to 12 months before emptying is required (based on standard usage in optimal conditions). Simple routine checks are recommended periodically to ensure the system is

stocked and operating optimally and a full service by a qualified technician is only required annually.

Alternative chemical latrines on the market today feature on average a 350-400L waste tank; and require weekly emptying. Taking into account the time and man power wasted on removing the units from underground every week, these toilets require up to 50 times the amount of servicing and maintenance over the course of one year, compared to the EnviroLAV.



#### envirozyme

MineARC's unique EnviroZYME contains bacteria and powerful enzymes that are highly effective at accelerating waste breakdown. The solution has been specially formulated to also act as a powerful odour suppressant. EnviroZYME is non-toxic and safe for the environment.



#### envirowash

MineARC's EnviroWASH hand cleaner has been developed specifically for use in conjunction with MineARC EnviroZYME. Totally eco-safe and biodegradable, the solution's natural enzymes contain no harsh chemicals that may cause damage to the system's waste breakdown



#### envirocLEAN

MineARC's EnviroCLEAN degreasing spray is suitable for all EnviroLAV hard surfaces. The powerful organic liquid cleaner eliminates odours and kills germs, leaving a refreshing orange fragrance.



#### envirosoft

MineARC's unique EnviroSOFT biodegradable toilet tissue has been specifically developed for use with MineARC EnviroZYME solution. Starch based for quick, natural breakdown, EnviroSOFT's organic composition compliments the EnviroLAV's waste breakdown process.

#### **Transportation**

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

The EnviroLAV features balanced forklift slots to all sides for ease of transportation. The reinforced base of the unit is solidly constructed

to support the unit during transportation and minimise general wear and tear.

Additional steel work can be added to allow the provision for an IT (Integrated Tool Carrier) attachment to be fabricated to the existing structure for added manoeuvrability.

