- Fire Fighting Equipments
- Storage Tank Accesories
- Pig Receivers & Launchers
- Pressure Vessels



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## EMA INDUSTRY ENGINEERING

Adress:
Fenerbahçe Mah
Fener Kalamış
Cad. No: 21/3
Kadıköy Istanbul /
TURKIYE

**Tel:** +90 216 405 2155 ema@emaindus rv.com





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#### **Technical Information**

EMA mine and tunneling refuge chambers are designed and manufactured to the highest standards to save lives in possible accidents. Chambers ensure the minimum vital functions required until help and survivors of the accident are reached.

On the other hand, the cabins meet the needs of respiratory, toxic gas treatment, temperature control, communication, lighting, food and hygiene.

Depending on the structure and shape of the mine area, customers can select the Mine Refuge Chamber system for avoiding any hazard such as fire, explosion, gas outbursts or intercepts, inadequate or loss of ventilation and extensive collapse of workings.

#### **Standart Dimensions**

Our refuge chambers, which are manufactured in accordance with international rules and norms, can be manufactured in desired special sizes and standards for customer-specific solutions.

Model	Occupancy		Lanath(m)	Hoight/m)	\A/idth/ma\
	Person	Duration(h)	Length(m)	Height(m)	Width(m)
AYS-MRC-8	8	36	4.5	2.20	2.25
AYS-MRC-12	12	36	5.5	2.20	2.25
AYS-MRC-16	16	36	6.5	2.20	2.25
AYS-MRC-20	20	36	7.5	2.20	2.25
AYS-MRC-26	26	36	9.0	2.20	2.25
AYS-MRC-30	30	36	10.0	2.20	2.25

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GENERAL FEATURES	STANDART	OPTIONAL	OFFER
Sealed structure	✓		✓
6 mm. Steel Plate Construction	✓		✓
Ergonomically designed room	✓		✓
Blast rating: 5 psi	✓		✓
Blast rating: 15 psi (Coal Mine)		✓	
Outward opening sealing door, with double locking handles	✓		✓
Two rear escape hatch	✓		✓
Viewing hole: 20 mm. thinkness	✓		✓
External and internal signage (reflective, safety and operational)	✓		✓
Highly portable; base fitted with 250mmx100mm forklift slots, front and rear tow points, lifting eyes	<b>√</b>		<b>√</b>
Secure rear housing to protect critical exte-rior-mounted components	<b>✓</b>		✓
Ergonomically designed seating	✓		✓
Under seating strorage	<b>✓</b>		✓
Portable chemical toilet 13 L	✓		✓
Fire Blanket	✓		<b>✓</b>
Fire extinguisher inside & outside	✓		<b>✓</b>
Playing cards	✓		<b>✓</b>
First aid kit	✓		<b>✓</b>
Continuous battery support for 36 hours	✓		✓
Life support extension 36up to 96 hours		✓	
External lighting; extra low voltage green and red LED	✓		✓

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Internal lighting; LED daylight	✓		✓
External antenna connection (for client's own	✓		<b>✓</b>
communication systems)			
Siren; 95-112 dBA	✓		✓
Touch screen LCD Control Panel	✓		<b>✓</b>
System diagnostics: Chamber status, mains	<b>J</b>		1
power connection, audible and text warning	•		•
alarms			
Fault logging	✓		✓
Breathable air (O2) supply	✓		✓
CO2 and CO gas damping system and			
chemical cartridges (Scrubber System)	•		•
Positive Pressure Protection System	✓		✓
Compressed Air Management System	✓		✓
Voice Guidance System	✓		<b>✓</b>
Air Conditioning	✓		<b>√</b>
Compressed (Medical) Oxygen Cylinders	✓		<b>✓</b>
Pneumatic Air Curtain		✓	
Airlock		,	
7 milesix		<b>~</b>	
Digital Gas Measurement System		✓	✓
Emergency Mine Air Shutdown System		✓	✓
Individual Oxygen Recovery Masks		✓	
Manual Gas Meter and Cartrdiges	<b>√</b>		✓
Transformer; Step down		J	
1000V to 240-220V		•	
Remote Control & Camera System		✓	
Spinal Board; Immobilisation &		<b>√</b>	
Transportation			

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<b>√</b>
,
✓
✓
✓
The lighting work with motion sensors. They automatically turn off when not in use.
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
We have a sealed outlet. The communication system of the customer can be connected inside the cabinet.  Wireless or telephone are not included in the price.