



# Ecosmart

# 22.9

**All the benefits of a static unit with the flexibility of a tow-able trailer. Mobile self contained welfare facilities, canteen, office and toilet. Ideal for any size or type of site.**

The Ecosmart 22.9 has running hot water, heating system, microwave & kettle. Canteen space for up to 16 people plus a toilet, drying room and a large office space.

The Ecosmart 22.9 has a host of environmentally sensitive features, including PIR activated lighting that helps to cut down on energy use and running costs.

Each unit is fitted with stainless steel worktops, stainless steel sink & seamless high gloss wall surfaces for effortless cleaning and long durability.

## Built for a tough life

Unique patented, high strength, composite panels

## Ecosmart technology

Intelligent, efficient operation

 **10-16**

Depending on chosen layout

 **UP TO 6h**

without generator<sup>(1)</sup>

 **UP TO 4h**

without generator<sup>(1)</sup>

 **45<sup>s</sup>**

Quick, setup. No nonsense hydraulic axles<sup>(2)</sup>



Ecosmart  
22<sup>.9</sup>

## As standard

### Canteen

- Table & bench seating
- Running hot water
- Electric 230v heating
- Diesel 'Air' heating system ('Air' only)
- Microwave / kettle
- Durable stainless steel worktop
- Stainless steel sink
- PIR activated 12 volt LED lighting
- Carbon monoxide detector
- Fresh, waste & drinking water containers
- Soap, towel & cup dispensers
- Consumer unit with electrical certificate
- Generator timed controller
- Fuel gauge
- USB charging sockets
- 12 volt charging socket ('Air' only)
- Low battery light indicator ('Air' only)
- Digital battery monitor/voltmeter ('Air' only)

### Office (Open Plan & + layouts only)

- PIR activated 12 volt LED light
- Heating outlet (standard or 'Air')
- Double socket with USB
- Desk(s)

### Power

- High cycle AGM battery
- Battery protection
- Battery charger
- Diesel Kubota engine generator
- Diesel tank
- 12 volt hydraulic pump
- Low level fuel cut off

### WC

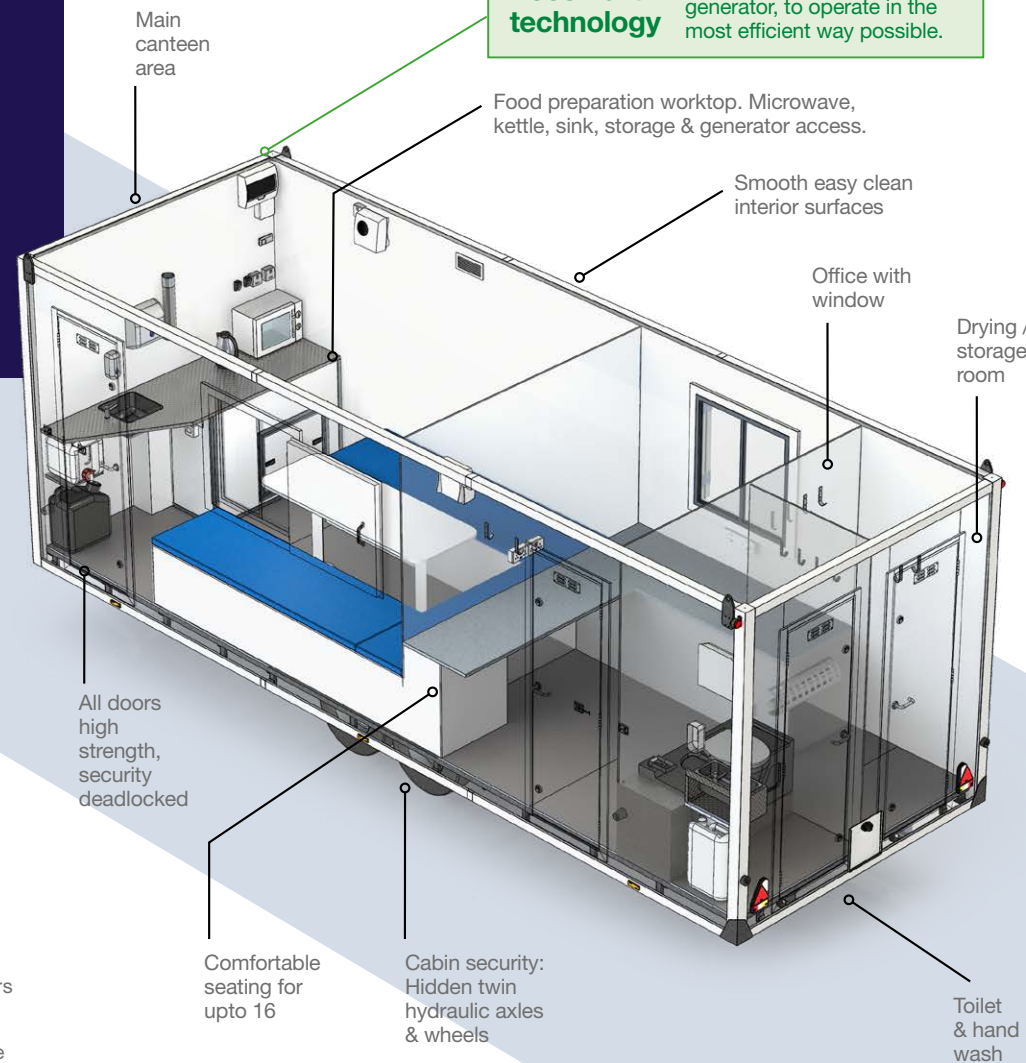
- Re-circulating flush tank toilet 80 litre capacity
- Sink to wash up to forearm
- Running hot water
- Coat hook
- Soap dispenser
- Towel dispenser
- Toilet roll holder
- PIR activated LED light

### Drying Room

- Coat hooks
- PIR activated 12 volt LED light
- Blown air heating outlet ('Air' only)
- Electric 230v heating

### Ecosmart technology

Minimises power usage of the generator, to operate in the most efficient way possible.

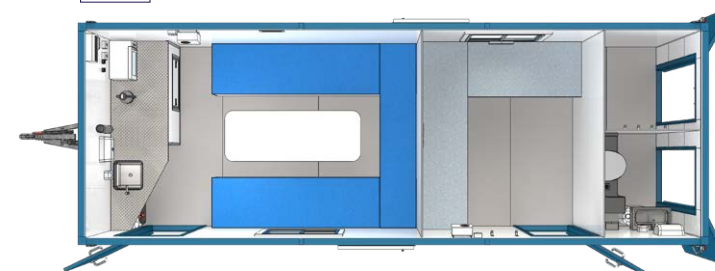


### Choose a layout

Open Plan



Canteen, seating for 10. Office space for 2. Drying room. 1 toilet.



Open Plan



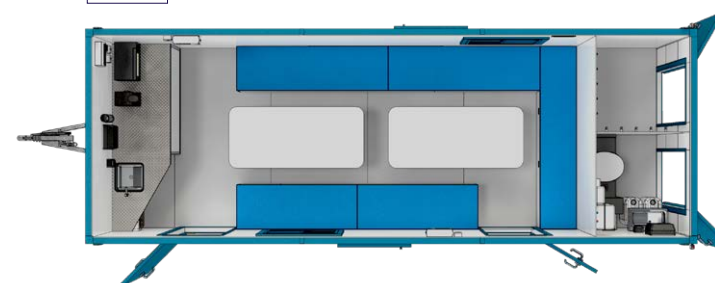
Canteen, seating for 10. Office space for 2. Drying room. 2 toilets.



Xtra



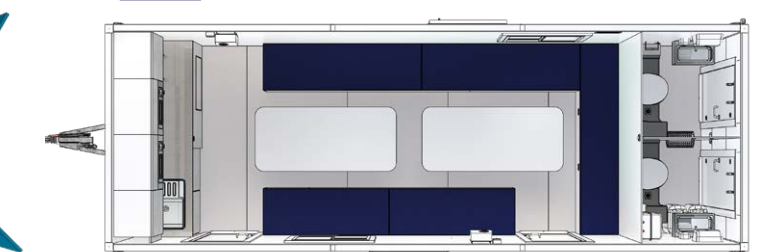
Xtra large canteen, seating for 16.



Xtra EXCLUSIVE



Xtra large canteen, with fitted kitchen



without generator<sup>(1)</sup>

**3500kg**  
Gross weight  
**3270kg**  
Unladen weight



without generator<sup>(1)</sup>

VEHICLE  
CERTIFICATION  
AGENCY  
Approved  
HEALTH & SAFETY  
EXECUTIVE  
Compliant

### External

**Walls:** Constructed from unique patented (2448660) high strength composite panels. Galvanised steel exterior, seamless GRP interior and high density foam insulation

**Roof:** Seamless insulated composite panel.

**Floor:** 15mm plywood with slip and wear resistant phenolic coating.

**Wheels:** 195R 14" Low profile wheels & tyres.

**Chassis:** Heavy duty galvanised steel. Electric type approved twin hydraulic axles.

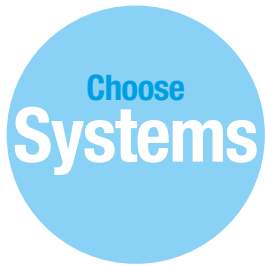
**Doors:** 4 x high security composite doors with 2 deadlocks. Double doors to generator with 2 deadlocks.

**Window:** Aluminum with security door locked internally with thumb turn deadlock.

**Lights:** Built in road lights with removable number plate brackets.

Optional  
upgrades &  
extras





Scale up your eco-potential to ZERO emissions. Solar + alternative power sources.

Hybrid power saving potential

Hybrid Power Generator / Battery

Up to 78% better fuel economy for the same heating time.

Fully Automatic just add fuel and use.

EcoSmart

Hybrid Power HVO Generator / Battery

Heating Fan heater

Water Pump

Kettle Microwave

LED Lighting

Battery Charging Push button start

Hydraulics

Instant Hot Water

4 minutes warm up = 4 hours hot water on demand

EcoSmart 'Air'

Hybrid Power HVO Generator / Battery

Kettle Microwave

Heating Diesel & battery

Battery Charging Push button start

Water Pump

LED Lighting

Hydraulics

Instant Hot Water

4 minutes warm up = 4 hours hot water on demand

AutoSmart

Automatic Self charging hybrid HVO Generator / Battery

Kettle Microwave

'Air' Heating Diesel & battery

Automatic Battery Charging

Water Pump

LED Lighting

Hydraulics

Instant Hot Water

4 minutes warm up = 4 hours hot water on demand

Improve charge times

Close to Zero Emissions

Zero Emissions

Extra solar input charges batteries faster.

XL solar & batteries with responsive systems. Close to ZERO local emissions.

True ZERO local emissions. XL solar & batteries with responsive systems.

EcoSmart Solar

Solar Panels HVO Generator / Battery / Solar

Boost battery charging speed with solar input

Generator time reduced

Upgrade from: EcoSmart EcoSmart 'Air' AutoSmart

EcoSmart MAX

Automatic Self charging hybrid Lithium Battery Bank / XL Solar / HVO Generator Backup

ZERO fuel on summer days All systems run from battery bank

Heating option Diesel or Electric

Generator for battery charging or power surges

Instant Hot Water 4 minutes warm up = 4 hours hot water on demand

EcoSmart ZERO

Automatic Self charging hybrid Lithium Battery Bank / XL Solar / Hydrogen Fuel Cell Backup

ZERO fuel on summer days All systems run from battery bank

Heating options Combined Air Con. +heating or Electric Heating

Hydrogen Fuel Cell for battery charging or power surges

Instant Hot Water 4 minutes warm up = 4 hours hot water on demand

EcoSmart 22

Fuel Efficiency Comparison

To illustrate the fuel & emissions saving potential of our welfare units see below data for a 22.9FT mobile welfare unit. A full, individual data presentation for each combination of size / layout / system is available on request.

22 1 Year energy use*	Gen Run Hours	Litres Used	Diesel Cost £	Diesel CO²e KG	HVO CO²e KG	Litres Fuel Reduced by %	Fuel Cost Savings £
Non-hybrid 6kVA Welfare Unit	2600	2600	£ 4,420	7083	708	----	----
EcoSmart	1990	1791	£ 3,045	4879	488	31.1%	£ 1,375
EcoSmart Solar	1873	1686	£ 2,866	4592	459	35.1%	£ 1,554
EcoSmart 'Air' Diesel Heating	1662	1576	£ 2,680	4294	429	39.3%	£ 1,740
EcoSmart 'Air' Diesel Heating Solar	1428	1366	£ 2,321	3720	372	37.4%	£ 2,099
AutoSmart	1115	1640	£ 2,789	4469	447	36.9%	£ 1,631
AutoSmart Solar	939	1395	£ 1,395	2731	273	46.3%	£ 3,025
EcoSmart MAX	376	338	£ 575	922	92	87.0%	£ 3,845
EcoSmart MAX 'Air' Diesel Heating	203	262	£ 446	715	71	89.9%	£ 3,975
	Fuel Cell Run Hours	Bottles H2 used	H2 Cost £	Local CO2e KG			
EcoSmart ZERO	1128	161	£ 9,671	Zero			- £ 5,251

Db Noise Levels @ 7m distance with generator doors open

CO2 Emissions REDUCED

Wrench Maintenance REDUCED

Clock Generator time REDUCED

Speaker Noise REDUCED

\* Based on 10 hours per day for 260 days, 80 days in winter mode and 180 days in summer mode. Each day is a typical usage day.  
16 Persons accommodated.  
£1.70p per litre Diesel / HVO  
£60 per H2 Bottle  
£0.40 per kW Grid

ZERO Grid carbon, when a renewable energy supplier is used.  
Solar panels achieve maximum output in direct sunlight, but they work in normal daylight and cloudy weather too. The amount of power a solar panel or charging kit generates in cloudy weather will be lower compared to direct sunlight. Also the positioning of the cabin will affect the solar charging of the batteries i.e. under trees, etc.  
This assessment doesn't take in consideration the usage of the hydraulics  
This assessment is guidance only



We have dedicated support teams to help you with every part of your journey with us.

We are more than just a manufacturer.  
Your success is the key to our success.

- Sales Support
- Marketing Support
- Delivery / Handover
- Product Training
- Service Support
- Technical Support
- Parts / Upgrades



## Optional Upgrades

### Cool



Keep cool in hot weather with an integrated air conditioning system.

### Coms



Integrated 4g router / wifi access. Perfect for office units working in remote locations.

### Eye Site



Integrated CCTV security system. Telescopic roof mounted 360° cameras with control room.

### Silent Site



Quiet night time operation. For a peaceful, greener environment.

### Nightlight



Cabin roof mounted lighting system, for enhanced security.

### Entertainment



Smart TV, Bluetooth speaker system.

### Tracker



Remote telemetry system. Collect important data and keep track of your unit location.

### Safety Pack



First aid box, Fire blanket, Fire extinguisher - 1kg, Health and safety poster & Eye wash.

### Starter Pack



Paper towels, 2 x Toilet rolls, Plastic cups, Fresh drinking water, Washing water, Water in toilet with chemicals & a full tank of diesel.

## Other options

- Non-hydraulic axles
- Ceramic flush toilet
- Available as a static unit
- Custom layouts on request
- Pin boards / White boards
- Spare Wheels
- Decals / Branding

Award winning welfare Designed & built in the UK



[www.easycabin.co.uk](http://www.easycabin.co.uk)

01582 486663

[info@easycabin.co.uk](mailto:info@easycabin.co.uk)

DESIGNED & BUILT IN THE UK

EasyCabin Head Office & Factory, Unit 10, Cosgrove Way, Luton, Beds, LU1 1XL

## FOOTNOTES

As part of our on-going commitment to improvement we reserve the right to alter specifications, designs or figures, without prior notice. All dimensions and weights are approximate.  
A full energy presentation is available on request.

Solar panels achieve maximum output in direct sunlight, but they work in normal daylight and cloudy weather too. The amount of solar power generated in cloudy weather will be lower compared to direct sunlight. Also the positioning of the cabin will affect the solar charging of the batteries i.e. under trees, etc.

<https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2023>