

AJC EasyCabin

**Mobile welfare range
with maximum solar
& ultra-low emissions
back-up generator**



EcoSmart[®]

AJC EasyCabin

SOLAR MAX

Your journey towards net-zero emissions starts here.

Designed for the highest possible power saving & solar harvesting performance, even in the unpredictable UK weather.

Years of development has led to the Ultimate EasyCabin Range.

Ecosmart Solar MAX offers a welfare solution for companies that are working to meet the demands of future CO2 reduction and clean air targets.

Designed for the highest possible power saving & harvesting performance, even in the unpredictable UK weather. The Ecosmart Solar MAX is proven to work year round whilst operating with minimal fuel input.

With increased focus on the reduction of carbon footprint and the prioritisation of corporate social responsibility issues, there is a real demand for industries to adopt alternative power whilst maintaining reliability and cost effectiveness.

Ecosmart Solar MAX hybrid systems provide an opportunity to both reduce operating costs and increase environmental performance.

The systems are silent most of the time and only engage the backup HVO generator when absolutely necessary. Ultra-low emissions are achieved when using HVO alternative fuel.

Ecosmart Solar MAX has been designed to have the same user friendly operation as standard Ecosmart welfare unit. Power to run the heating, sockets, kettle and microwave comes instantly from the large battery bank. The batteries are constantly fed by the large, powerful solar panels.

LOW CO₂ **Use no fossil fuels**
With HVO fuel used as a back up only.

LOW **Zero fuel with solar panels**
On summer days up to 100% of the power demands can be met from the solar panels.*

LOW **More peace and quiet**
Less generator time.
Less noise and vibration.

On-demand power & heat
On any appliance in the cabin.

LOW **Efficient power management**
The Ecosmart system controls power demands to make sure the generator is only used when absolutely necessary.

Remote telemetry
View data readouts on your device or laptop from any where in the world

Optional Rain water harvesting
Re-use rain water for toilet flushing and hand washing.

Ultra low emission

ZONE

Clean air

ZONE



Full roof of super efficient solar panels

Power flows from battery bank



Powerful lithium battery bank

Up to 4 batteries



Generator for battery charging only

Back-up power on stand by just in case!

Systems & appliances



Kettle & Microwave



Lighting



Hot water



Diesel Heating



Sockets

Ecosmart Power management, keeps back-up generator use to a minimum.

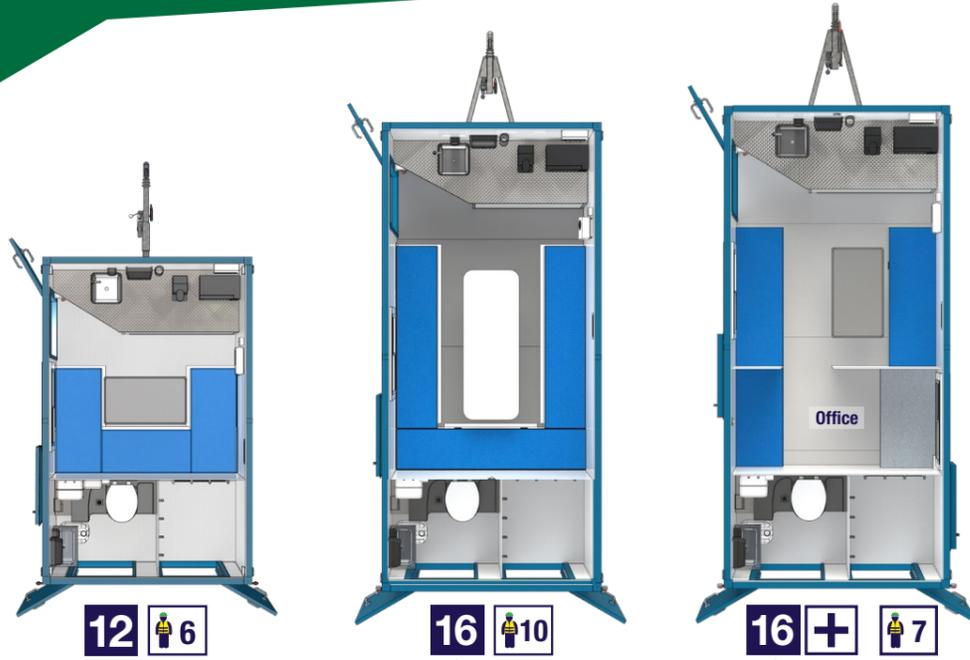
Monitoring & remote control

Optional on any SolarMAX is a local control dashboard integrated with **Victron Connect**. Remote monitoring is available from the **Victron App** or website.



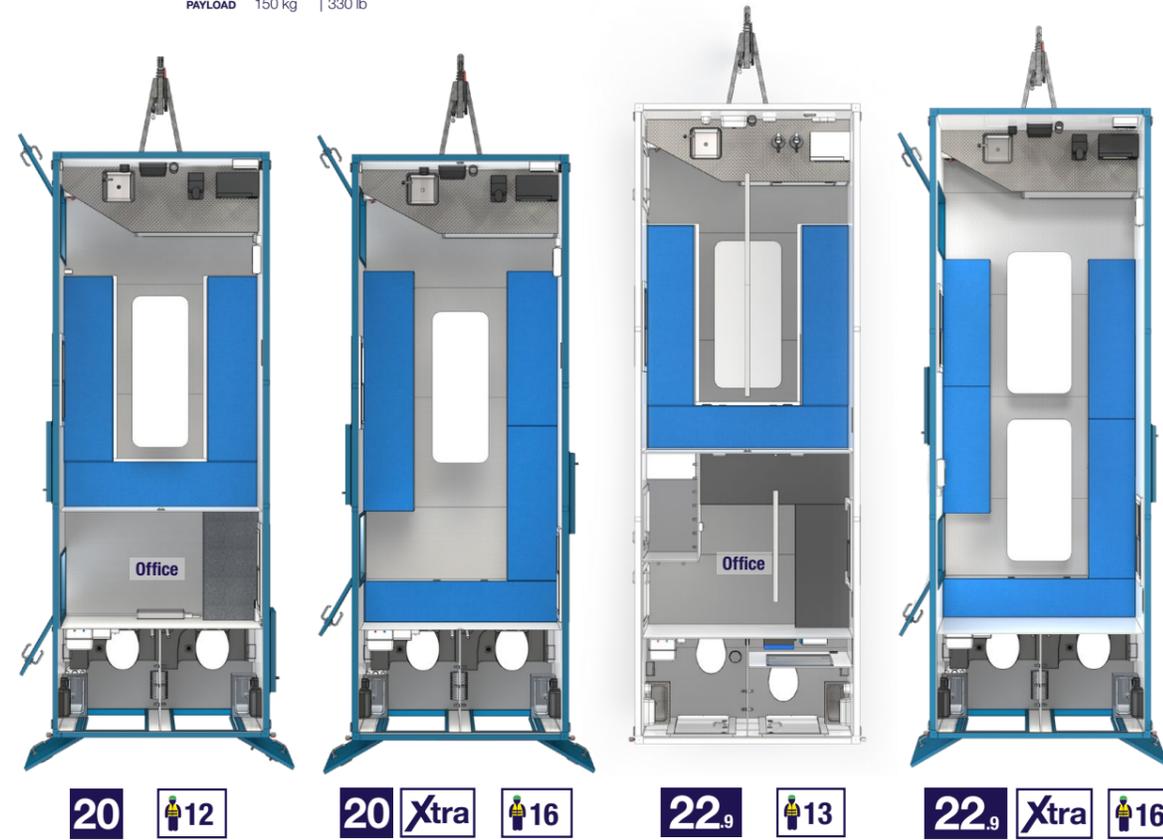
Model Sizes & Layouts

EcoSmart **MAX**



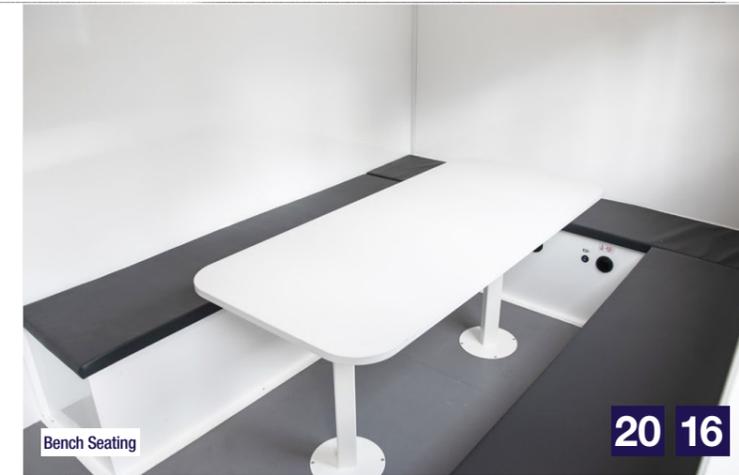
12	6
LENGTH	3615 mm 11.9 ft
WIDTH	2420 mm 7.9 ft
HEIGHT	2700 mm 8.8 ft
GROSS	1800 kg 3970 lb
UNLADEN	1650 kg 3640 lb
PAYLOAD	150 kg 330 lb

16	10	16+	7
LENGTH	4910 mm 16.1 ft	GROSS	2240 kg 4940 lb
WIDTH	2420 mm 7.9 ft	UNLADEN	2145 kg 4630 lb
HEIGHT	2680 mm 8.7 ft	PAYLOAD	95 kg 209 lb

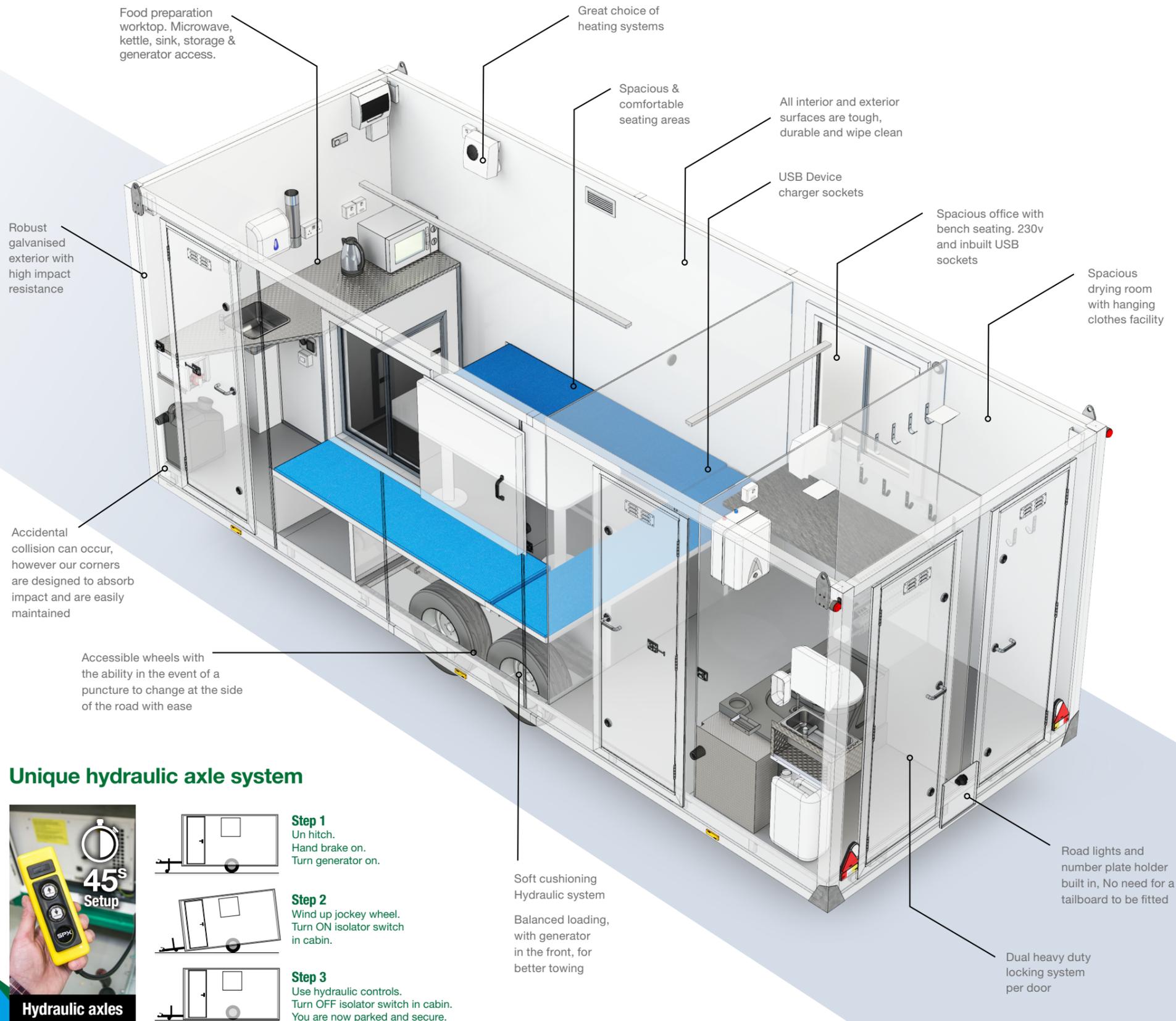


20	12	20 Xtra	16
LENGTH	6200 mm 20.3 ft	GROSS	3000 kg 6620 lb
WIDTH	2420 mm 7.9 ft	UNLADEN	2535 kg 5511 lb
HEIGHT	2700 mm 8.9 ft	PAYLOAD	465 kg 1025 lb

22.9	13	22.9 Xtra	16
LENGTH	6979 mm 22.9 ft	GROSS	3500 kg 7720 lb
WIDTH	2420 mm 8.3 ft	UNLADEN	2733 kg 6025 lb
HEIGHT	2700 mm 9.4 ft	PAYLOAD	267 kg 590 lb



Key specifications. What makes a typical Ecosmart?



Every Ecosmart Solar MAX has standard features that set it apart from the rest.



Thermal insulated

Our unique high density composite panels ensure minimum thermal transfer. Cool in summer, warm in winter.



High spec running gear

We only use AL-KO axles & towing equipment to ensure long life and easy parts replacement.



Hydraulic lifting axles

No nonsense, quick set up. Press a button and the wheels hide away. Parking is easy. Moving is easy.



Hybrid power

Lithium batteries are primary power supply, topped up by solar panels, using the generator as a battery charger only.



Comfortable, clean, bright interiors

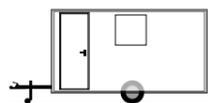
Our light & bright interiors set us apart from the rest. High gloss surfaces throughout, make them easy to clean.



Fully galvanised

Built for a tough life. Galvanized unique, high strength, composite panels and chassis. Resistant to vandals, road shocks, water & rust.

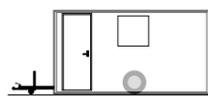
Unique hydraulic axle system



Step 1
Un hitch.
Hand brake on.
Turn generator on.



Step 2
Wind up jockey wheel.
Turn ON isolator switch in cabin.



Step 3
Use hydraulic controls.
Turn OFF isolator switch in cabin.
You are now parked and secure.

Soft cushioning Hydraulic system

Balanced loading, with generator in the front, for better towing

Road lights and number plate holder built in, No need for a tailboard to be fitted

Dual heavy duty locking system per door

Hydraulic axles

Standard Features



Available as standard on all SolarMAX models and layouts

3.5kVA Stage 5 HVO Generator
(Ultra-low emissions with HVO fuel)



Battery Bank Cells / Up to 4 per bank



sub-zero 100Ah
LiFePo4 Lithium Long Life Cycle Battery

Sustainability

- Automatic generator stop/start technology for economical fuel usage
- All electrical systems and appliances available without the generator operating
- Large solar array, uses whole of the available roof space
- Large, powerful lithium battery banks power storage
- Zero fuel with solar panels
On summer days up to 100% of the power demands can be met from the solar panels only.
- Fully insulated walls and roof system with no cold bridging
- LED lighting & hot water without the need for the generator
- Low noise pollution
- Low fuel consumption
- Low CO2 emissions
- Ultra-low CO2 emissions with HVO fuel, No need for fossil fuels

Movability

- Lightweight easy to tow
- Soft cushioning Hydraulic system
- Balanced loading, with generator in the front, for better towing
- Accessible wheels. Ability in the event of a puncture to change at the side of the road with ease
- Road lights and number plate holder built in, No need for a tailboard to be fitted
- Accidental collision can occur, however our corners are designed to absorb impact and are easily maintained

Remote Monitoring

Power generation and flow at your finger tips 24/7. Access via WiFi or 4G connection.



Remote telemetry: Dashboard

- Fuel level monitoring and low level fuel alerts
- Waste / Water tank monitoring
- Battery power and monitoring displays
- Diagnostics and troubleshooting
- Event logging
- Generator controls, ON/OFF, load management
- Solar & Battery information

Facilities

- Easy to use canteen facilities; hot water boiler, microwave & fridge
- Waste & fresh water containers
- AIR Diesel heating as standard
- 230v Power sockets with USB charging
- Comfortable padded bench seating
- Stainless steel worktop
- Lots of storage space
- Warm water washing facilities
- Fresh flush ceramic toilet. Underfloor waste tank with extra capacity.
- Forearm wash basin in toilet
- All interior and exterior surfaces are tough, durable and wipe clean
- Spacious drying room with hanging clothes facility
- Office space (depending on layout)

Build / Materials

- 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:** Low Profile 215R 14" or 195R 14" depending on trailer model
- Windows:** Aluminum with security door locked internally with thumb turn deadlock.
- Chassis:** Heavy duty galvanised steel.
- Axle:** Braked. Electric type AL-KO hydraulic axle. Dual axles on larger units
- Lights:** Built in road lights approved with removable number plate brackets.
- Doors:** High security composite doors with 2 deadlocks. Double doors to generator with 2 deadlocks.

Security / Safety

- Dual heavy duty locking system per door
- Robust galvanised exterior with high impact resistance
- Unique hydraulic system for setup in under 45 seconds
- Hydraulic axle isolator inside cabin. Impossible to tow away without full break-in
- Carbon monoxide detectors
- Breakers / Consumer unit



Burn only clean fuel. Reduce fuel consumption, CO2 emissions and preserve machine uptime.

FuelActive is a unique method of delivering 92% cleaner fuel to the engine by drawing fuel from just below the surface of the fuel tank. FuelActive ensures that only clean fuel enters the fuel lines eliminating the costly effects of fuel contamination. Not only that, because only clean fuel is used, the thermal efficiency of the engine reduces fuel consumption whilst maintaining factory-level emissions standards through its life cycle.

Upgrades



The most configurable welfare unit on the market today. Improve usability, comfort & efficiency. The choice is yours.

Some of the options listed are not available on all models & layouts. Please contact us to discuss your needs.

Comfort



Standard

Electrical heating

Fan heating in canteen for fast, instant warmth. Storage heating in office & drying room.



'Air' Diesel Heating

Webasto heating system uses fuel from the tank. Great for heavy use sites that need 24h heating.



Air Conditioning (Cold)

Perfect for long-hot summers. Use in conjunction with heating systems.



Combined Air Conditioning / Heating

All in one electrical system that provides hot and cold air.



Enhanced Light

Circadian lighting systems for better working conditions.



More windows

Add more windows to increase natural light & site visibility.



4G/5G WiFi access

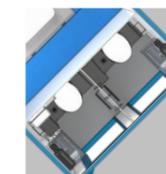
Give your users access to a local Internet connection.

Usability



Fresh flush ceramic toilets

Underfloor waste tanks with extra capacity.



Dual toilets

Add another toilet into the drying room. Available as Fresh flush or recirc.



Rain water harvesting

Harvest and filter rain water for washing and flushing.

Misc.

- Huge choice of RAL exterior paint colours
- Pin boards / white boards
- Extra storage / shelving
- External signage / branding
- Spare wheel
- Extra kettle (6kVA Gen only)
- More Sockets (6kVA Gen only)
- External 3pin mains power port
- Customer colour bench seating cushions
- Stainless steel chequer plate flooring & walls on storage/drying rooms and toilets.

Efficiency & Power



6 kVA HVO Generator

Increase power to sockets and appliances. For heavy use sites or cabins with extra systems.



More Battery Cells

Increased battery storage. For heavy use sites or cabins with extra systems.



1kw Wind turbine

Use wind to charge batteries and power lighting.

Safety



CCTV

External cameras mounted to suit user needs. Available for remote connection (with 4G router).



AL-KO ATC

Anti snake systems built into the running gear.



Chapter 8 reflectors

High visibility stickers ideal for highways sites.



Safety equipment

First aid station and fire extinguishers.

SOLAR MAX EXCLUSIVE

Extra Large 22.9 unit, high spec interior with fitted canteen/storage units.

More room for a great list of optional luxury or eco options.

 Built to accommodate up to **x16 People**

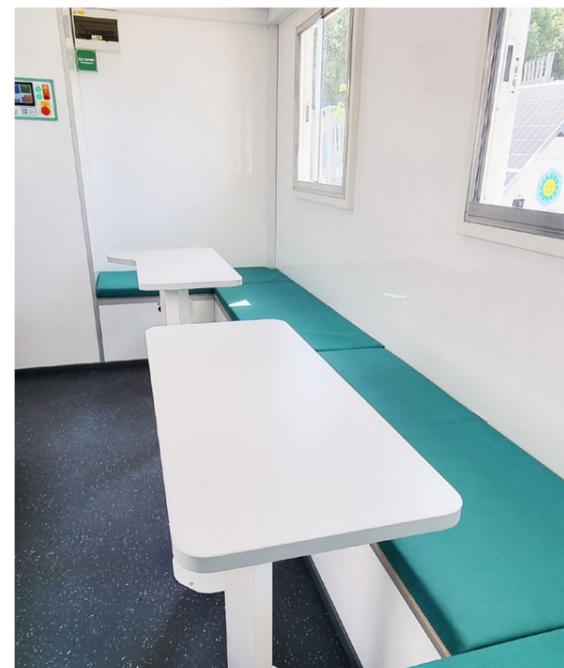
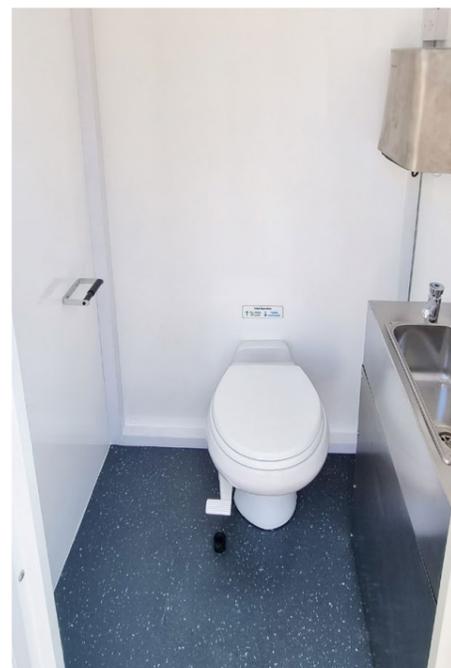
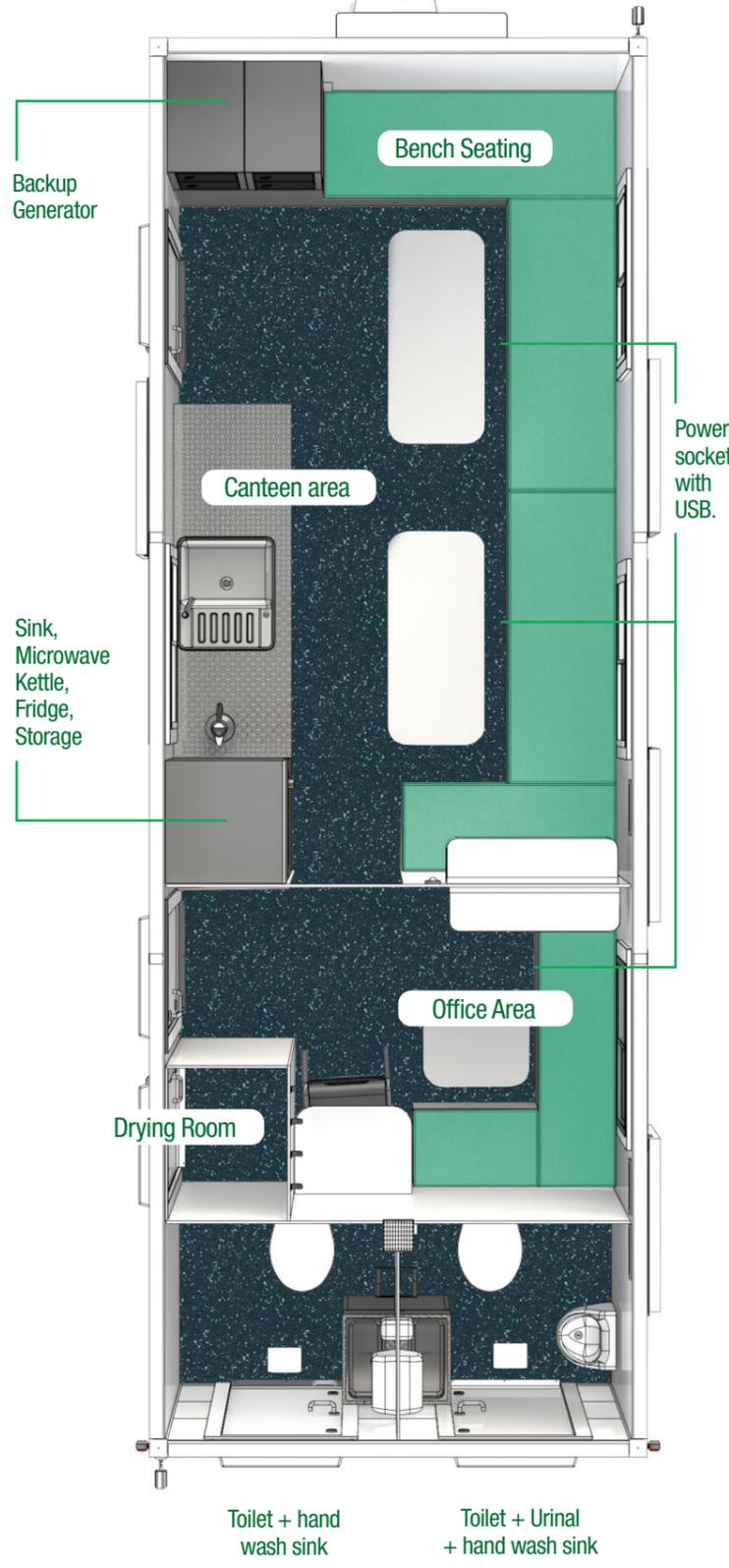
ULTRA LOW Local Emissions
Fuel consumption
No fossil fuels with HVO

600L External Pumped XL waste capacity saving servicing and minimising emissions

Smart Electric Systems Automatic systems start/stop to minimise consumption
Smart sockets & USB chargers throughout the cabin
Low energy PIR activated LED lights

Enhanced Light 4 windows on 2 aspects increasing natural light
Circadian lighting
OPTIONAL

Options listed on previous pages are also available on this special layout





After care & Support

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

Technical advice & training

We have a dedicated team of engineers UK wide. Ready to respond with remote phone support or at your location.

We offer full training courses in all aspects of maintenance and operation.



User Manual & Service Guide

A comprehensive owners guide. Every part of the unit is covered, from End user guides to individual parts servicing, troubleshooting and maintenance.



Ecösmart 16 Fuel Efficiency Comparison

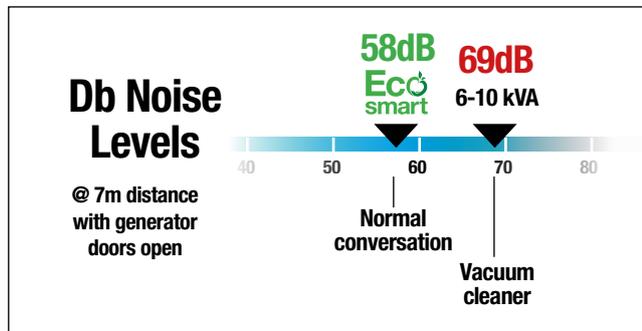
To illustrate the fuel & emissions saving potential of our welfare units see below data for a 16FT welfare unit.

A full, individual data presentation for each combination of size / layout / system is available on request.

16 1 Year energy use*

	Gen Run Hours	Litres Used	Diesel Cost £	Diesel CO ₂ e KG	HVO CO ₂ e KG	Litres Fuel Reduced by %	Fuel Cost Savings £
Non-hybrid 6KVA Welfare Unit	2600	2600	£ 4,420	7083	708	----	----
Ecösmart	976	879	£ 1,494	2394	239	66.2%	£ 2,926
Ecösmart Solar	859	773	£ 1,315	2107	211	70.2%	£ 3,105
Ecösmart 'Air' Diesel Heating	843	783	£ 1,330	2132	213	69.9%	£ 3,090
Ecösmart 'Air' Diesel Heating Solar	667	624	£ 1,061	1701	170	76.0%	£ 3,359
Autösmart	761	725	£ 1,232	1974	197	72.1%	£ 3,188
Autösmart Solar	592	573	£ 974	1561	156	77.9%	£ 3,446
Ecösmart MAX 'Air' Diesel Heating	93	107	£ 183	293	29	95.8%	£ 4,237
	Fuel Cell Run Hours	Bottles H2 used	H2 Cost £	Local CO ₂ e KG			
Ecösmart ZERO	505	72	£ 4,327	Zero			- £ 93

* 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. 6 Persons accommodated.
 £1.70p per litre Diesel / HVO
 £ 60 per H2 Bottle
 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



Award winning welfare Designed & built in the UK



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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.

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