



# Ecosmart

# 20

**20ft mobile welfare unit range, with Ecosmart technology built in as standard. Available with 3 layout options and a variety of upgrades.**

The Ecosmart 20 has running hot water, heating system, microwave & kettle. Canteen space for up to 16 people plus a toilet and drying room. Other layouts include a large or small office space.

The Ecosmart 20 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**  
LED

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 20

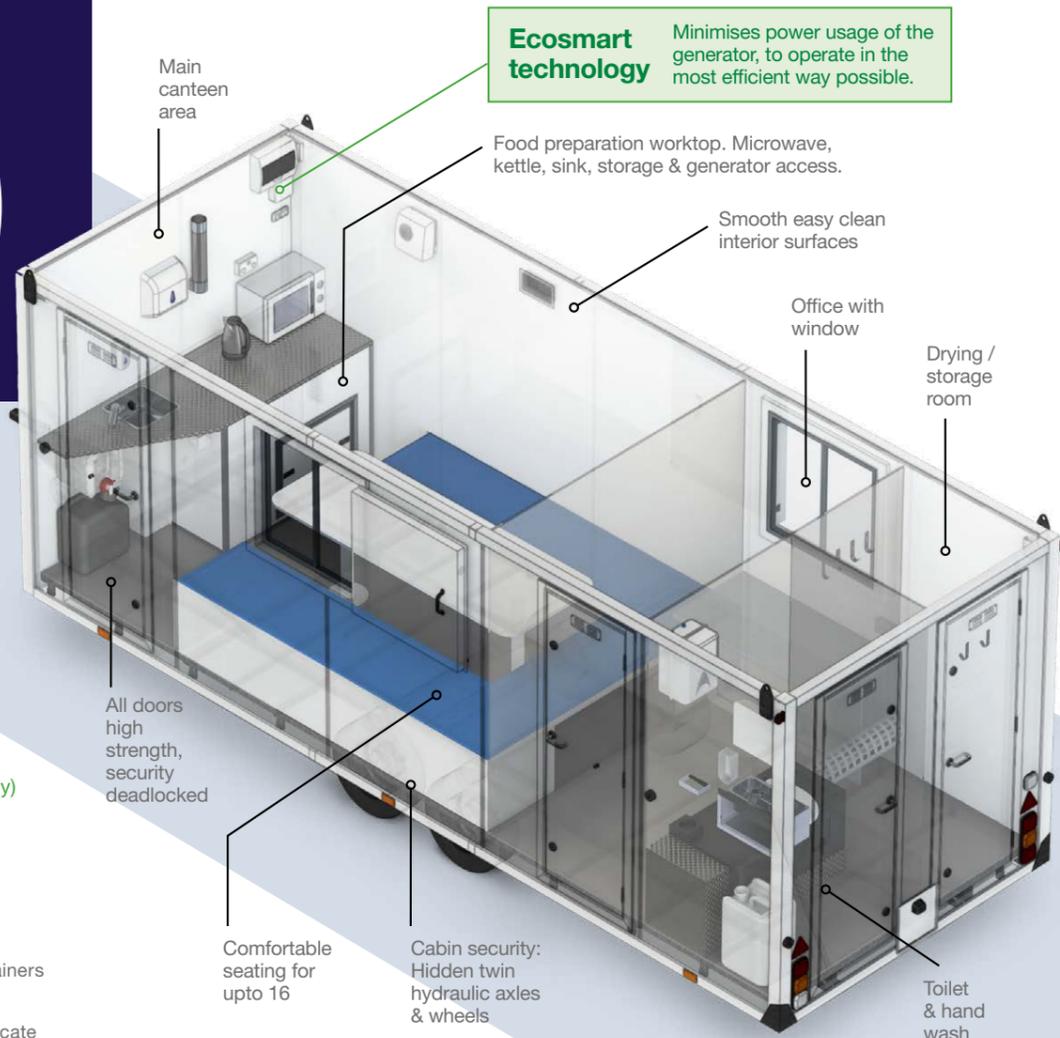
## As standard

### 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

### 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.



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



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

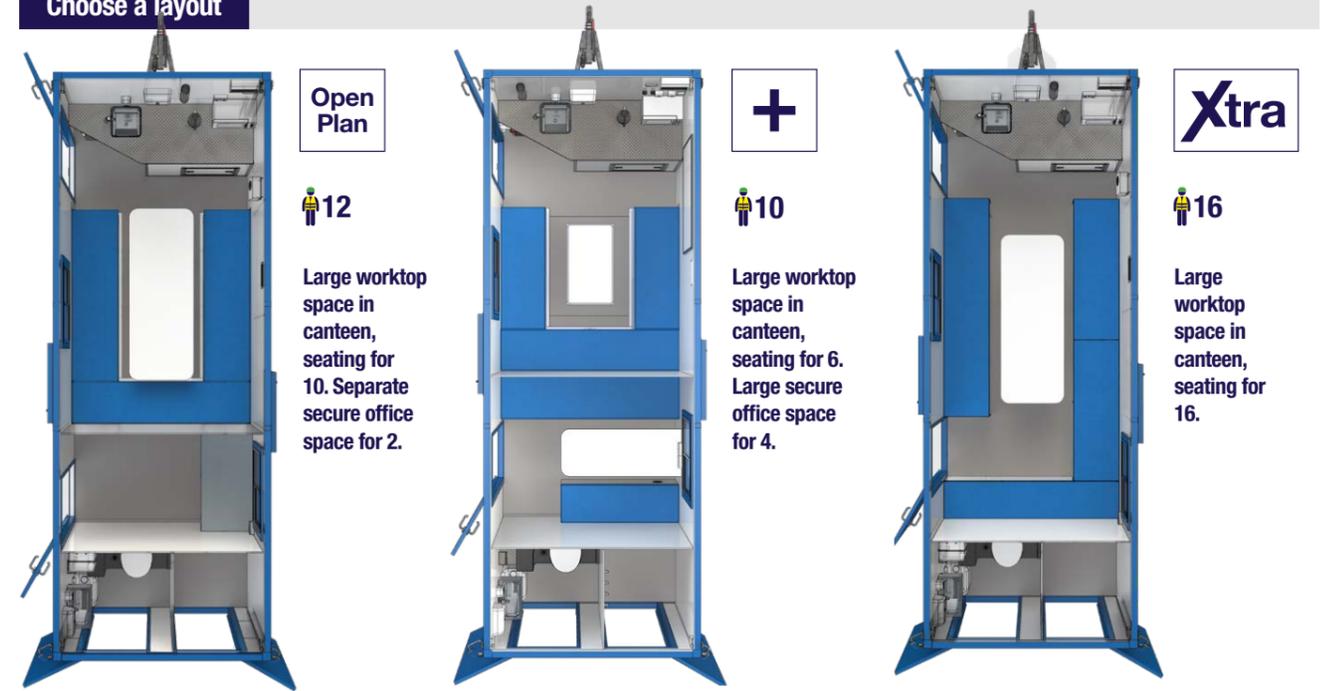
**3000kg**  
Gross weight

**2080kg**  
Unladen weight

**VEHICLE CERTIFICATION AGENCY**  
Approved

**HEALTH & SAFETY EXECUTIVE**  
Compliant

### Choose a layout

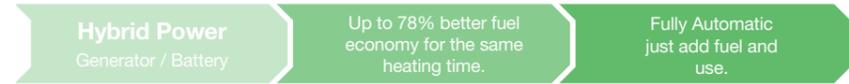


**Optional upgrades & extras**



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

## Hybrid power saving potential



### 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

- Heating: Diesel & battery
- 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

### Autosmart

#### Automatic Self charging hybrid HVO Generator / Battery

- Heating: Diesel & battery
- Water Pump
- Kettle Microwave
- LED Lighting
- Automatic Battery Charging
- Hydraulics

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

## Improve charge times

Extra solar input charges batteries faster.

## Close to Zero Emissions

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

## Zero Emissions

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



#### Solar Panels HVO Generator / Battery / Solar



Boost battery charging speed with solar input

Generator time reduced

Upgrade from:  
EcoSmart  
EcoSmart 'Air'  
Autosmart



#### 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



#### 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 20

## Fuel Efficiency Comparison

To illustrate the fuel & emissions saving potential of our welfare units see below data for a 20FT mobile welfare unit.

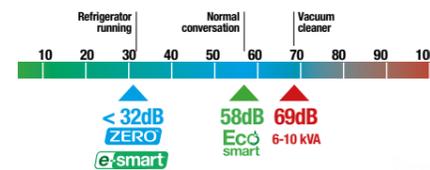
A full, individual data presentation for each combination of size / layout / system is available on request.

### Welfare unit with office space. Extra power used from office sockets & heating.

#### 20 1 Year energy use\*

	Gen Run Hours	Litres Used	Diesel Cost £	Diesel CO <sub>2</sub> e KG	HVO CO <sub>2</sub> e KG	Litres Fuel Reduced by %	Fuel Cost Savings £
<b>Non-hybrid 6kVA Welfare Unit</b>	3900	5850	£ 9,945	15936	1594	----	----
<b>EcoSmart</b>	1741	1567	£ 2,663	4268	427	73.2%	£ 7,282
<b>EcoSmart Solar</b>	1624	1461	£ 2,484	3981	398	75.0%	£ 7,461
<b>EcoSmart 'Air' Diesel Heating</b>	1435	1371	£ 2,331	3735	373	76.5%	£ 7,614
<b>EcoSmart 'Air' Diesel Heating Solar</b>	1232	1189	£ 2,020	3238	324	79.6%	£ 7,925
<b>Autosmart</b>	1258	1213	£ 2,061	3303	330	79.2%	£ 7,884
<b>Autosmart Solar</b>	1024	1002	£ 1,703	2729	273	82.8%	£ 8,242
<b>EcoSmart MAX</b>	337	304	£ 516	827	83	94.8%	£ 9,429
<b>EcoSmart MAX 'Air' Diesel Heating</b>	175	237	£ 403	646	65	95.9%	£ 9,708
	<b>Fuel Cell Run Hours</b>	<b>Bottles H2 used</b>	<b>H2 Cost £</b>	<b>Local CO<sub>2</sub>e KG</b>			
<b>EcoSmart ZERO</b>	1012	145	£ 8,675	Zero			£ 1,270

#### Db Noise Levels @ 7m distance with generator doors open



\* 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. 12 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





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



## Optional Upgrades

<p><b>Cool</b></p>  <p>Keep cool in hot weather with an integrated air conditioning system.</p>	<p><b>Coms</b></p>  <p>Integrated 4g router / wifi access. Perfect for office units working in remote locations.</p>	<p><b>Eye Site</b></p>  <p>Integrated CCTV security system. Telescopic roof mounted 360° cameras with control room.</p>	<p><b>Silent Site</b></p>  <p>Quiet night time operation. For a peaceful, greener environment.</p>	<p><b>Nightlight</b></p>  <p>Cabin roof mounted lighting system, for enhanced security.</p>
<p><b>Entertainment</b></p>  <p>Smart TV, Bluetooth speaker system.</p>	<p><b>Tracker</b></p>  <p>Remote telemetry system. Collect important data and keep track of your unit location.</p>	<p><b>Safety Pack</b></p>  <p>First aid box, Fire blanket, Fire extinguisher - 1kg, Health and safety poster &amp; Eye wash.</p>	<p><b>Starter Pack</b></p>  <p>Paper towels, 2 x Toilet rolls, Plastic cups, Fresh drinking water, Washing water, Water in toilet with chemicals &amp; a full tank of diesel.</p>	

### 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



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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.

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>