



**RENAULT**  
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# Renault ZOE

Press Information



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# Renault ZOE: At a glance

- The R110 motor provides 110hp, improving acceleration and high-speed driveability
- ZOE, the flagship of Renault's Z.E. (Zero Emissions in use) vehicle range, is a fun-to-drive, efficient and practical five-seat, five-door alternative to a traditional ICE (internal combustion engine) supermini
- ZOE has a WLTP real-world driving range in the summer of 186 miles. In cold winter conditions it's 124 miles
- Two trim levels – Dynamique Nav and S Edition. Both versions are offered with a battery hire scheme to make it possible to tailor operating costs to usage, or in i specification, in which case the buyer assumes full ownership of the car and batteries
- All ZOE models come with a Z.E.40 battery, providing a WLTP range of 186 miles, depending on weather conditions
- Quick Charge option available on both ZOE models. When using a 43kW rapid charger, this cuts the time it takes to charge from 0-80% from 1h40 to just 65 minutes
- Top-spec S Edition version is the most luxurious ZOE ever, featuring 17-inch 'black optemic' alloys, part premium leather upholstery, a BOSE® Premium 3D Sound stereo, and Renault R-LINK infotainment system with a reversing camera
- Unique, patented Chameleon™ charger allows ZOE to adapt and always charge at the maximum possible rate from any given charging source
- Renault Range OptimiZEr maximises everyday driving range, bringing together the benefits of Michelin ENERGY™ E-V tyres, heat pump and new-generation regenerative braking technology to extend the range by up to 25 per cent
- True to Renault's excellent safety reputation, ZOE has achieved the highest five-star rating in Euro NCAP crash testing
- ZOE was the first Renault to be equipped as standard with the R-LINK integrated, connected multimedia tablet, including 7-inch touchscreen, voice command, navigation, Bluetooth and access to on-board apps
- My Z.E. Connect allows remote battery monitoring, and My Z.E. Interactive allows remote battery charging, car pre-conditioning and charge scheduling to make the most of off-peak energy tariffs. All models include both Z.E. Connected Services free for the first three years
- Pre-conditioning function allows the cabin to be cooled or warmed while charging, before setting off. Convenient for the driver and helping to conserve battery range
- All ZOE versions are covered by a Renault 3 Year warranty and roadside assistance package covering the car for three years or 100,000 miles, (unlimited in the first two years). Extended servicing and warranty Packs are available
- Renault provides a free 7kW domestic Wall-box quick charging point installed by Chargemaster with every ZOE
- ZOE voted What Car?'s 'Best Electric Car under £30,000 for the last six consecutive years and and 'Best Electric Car' overall in 2017, Best Green Car at Firstcar awards 2018, Best SME Green Car at the Business Car Manager Awards, Best Ultra-Low Emissions Car at the Fleetworld Honours 2018
- Renault has been Europe's best-selling electric vehicle brand since 2010
- More than 100,000 Renault electric vehicles have been sold in Europe, with more than one in four EVs in Europe a Renault



# Design



ZOE was the first supermini to be designed from the outset as an all-electric vehicle, so it is cleverly packaged, with a strong individual character in its clean and flowing lines. The front end displays Renault's family brand identity and is characterised by friendly, appealing looks. The standard Glacier White paintwork, the chrome diamond badge, the headlamps and the dark-tinted windows are details that identify it as an electric car. Inside, ZOE presents an appropriately relaxing environment.

ZOE's design has been created to express the car's status as an innovative, responsible and "affordable to all" pure electric vehicle, yet at the same time be immediately acceptable to people. For many customers, making the change from internal combustion to electric power is a major breakthrough, so ZOE's practical, attractive five-door hatchback design does not ask them to make yet another shift in attitude.

## Exterior

ZOE is instantly identifiable as a part of the Renault Z.E. range thanks to the blue pointers around the exterior of the car. Unusually for a production car, the rear lights have a transparent finish, with blue concentric rims; they turn red only under braking and when the lights are switched on. The effect is to create a more uniform look to the body colour.

ZOE features slender headlights and a large Renault logo, contrasting with the black grille. The wide air intake creates a smiling appearance, with dimples either side housing the daytime running lights. An air of quality has been instilled through the use of such elements as LED daytime running lights, the charging socket at the front with the Z.E. diodes, the contour lines and the lighting technology. Meanwhile, the cut-out effect on the bonnet highlights the design of the grille and headlamps.

A great deal of emphasis has been placed on quality of finish, with a focus on minimal gaps, flush bodywork and reduced space between the wheel arches and the tyres.

ZOE's front end has been designed to minimise pedestrian injury, with no sharp edges on the bumper. The lower part of the windscreen – usually highly rigid – has been designed to pose less of an injury risk in an impact. The height of the bonnet has also been raised to create a crumple zone above the powertrain.

ZOE is available in eight colours, including three metallic shades and four Renault i.d metallic finishes. The latter includes 'Aconite' dark metallic purple paint, the most recent addition to the ZOE colour palette. Depending on the colour chosen, the Renault logo and badging switches from blue to chrome to provide the ideal contrast.

The stylish exterior is completed with 16-inch 'black shadow' alloy wheels on the Dynamique Nav, and the free-of-charge option of 17-inch 'black optemic' alloys on S Edition.



## **Interior**

Inside, ZOE mirrors the purity of its simple exterior design. The dashboard is created from a single block, with clean, taut lines. The same approach can be seen in the fascia strip, which resembles a wind turbine blade.

It is made from a soft-touch material inspired by home design concepts, and in ZOE is used for the first time in an automotive application.

The pure, relaxing cabin ambience is heightened by a choice of colours and advanced technology. The R-LINK multimedia system's 7-inch touchscreen appears to float in front of the dashboard, while the TFT (thin film transistor) screen on the control panel is suggestive of ZOE's high-tech content.

The seats have integrated headrests and have been treated with Teflon stain protection for easy cleaning. ZOE's zero-emission (in use) status is neatly expressed in the Z.E. initials presented on the gearshifter and driver's seat headrest, while the roof lining and the dashboard are decorated with a pictogram representing an electric circuit.

In order to add a little extra refinement to the ZOE Dynamique Nav, two optional interior packs have been introduced. The Purple Interior Pack and Blue Interior Packs include either purple or blue accents around the dashboard, the speakers and the gearbox lever; black strips around the R-LINK screen and purple or blue and black upholstery with matching stitching and accents on the doorpanel armrests.



# Technologies

ZOE was the first model to be equipped as standard with Renault R-LINK, an integrated, connected multimedia system that gives easy access to a wide range of information, communications and entertainment functions through its 7-inch touchscreen. These include navigation, radio, telephone, Bluetooth audio streaming, music, portable device connection and connected services. Commands for some functions can also be made using the intuitive voice recognition facility, including instructions for phone calls or viewing apps and emails on-screen.

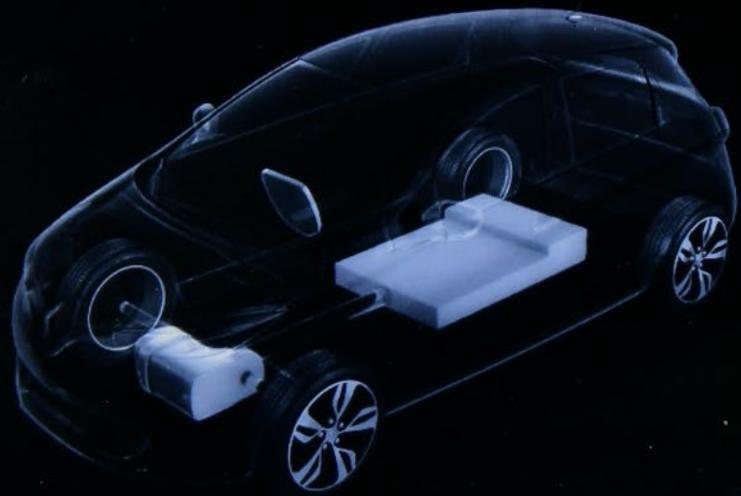
The impressive system has recently been enhanced with the ZOE now benefitting from Android Auto compatibility. This allows drivers to display driving-compatible Android applications stored on their smartphone (including Waze, Deezer, Spotify, TuneIn, Skype, Messenger, Audible and many others available from Google Play Store) on the ZOE's multimedia screen.

On ZOE, R-LINK provides a number of features dedicated to electric vehicle driving, such as the 'range bubble' on the TomTom® Z.E. LIVE navigation system, with a radius determined by the vehicle's remaining range. When the driver enters a destination, the system will indicate whether the vehicle has sufficient charge to make the journey. If not, it will give directions to a convenient charging point on the way. It can also suggest the most economical routes in terms of energy use and display charging stations close to the vehicle's location, or at its destination.

R-LINK is connected to the vehicle's ECU, enabling further new functions. Drivers can monitor their car's energy consumption in real time, or the energy flow between the battery and the electric motor, air conditioning and heating.

Once they have arrived at their destination, drivers can assess their eco-driving performance using the Driving eco2 function, which analyses the driving style and gives tips on how range and efficiency might be improved.

Energy flow



## **Extended connectivity -**

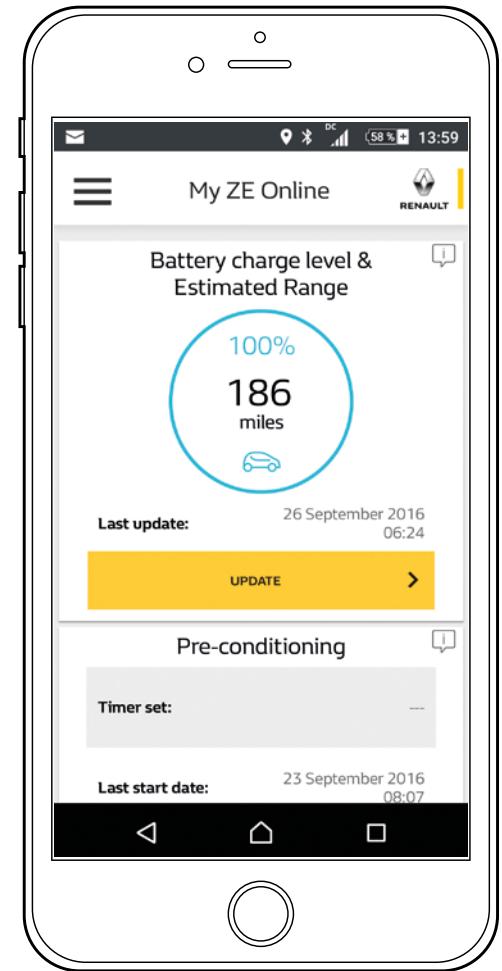
### **New features enhance ZOE's user-friendliness**

ZOE buyers can make use of two Z.E. Connected Services designed to make everyday life easier – My Z.E. Connect and My Z.E. Interactive. These systems allow drivers to receive information and interact with their vehicle. A three-year subscription to both services is included with all Zoe models. All Z.E. Connected Services are compatible with Apple iOS® and Android® devices and are available in the Apple App store and Google Play® store.

My Z.E. Connect lets drivers obtain information about their vehicle using their smartphone, tablet or computer. Among the information it provides are battery charge level, estimated remaining range, time of the last charge, charge status if the vehicle is connected, time remaining to complete a full charge and monthly record of charge data (not available via the Z.E. services dedicated app).

Users can also receive notifications on the start or finish of charging (by email), and have alerts for low battery charge or an interruption in the charging process (by email or text).

The options are even more extensive with My Z.E. Interactive, with which drivers can use a computer, tablet or smartphone to run or set the pre-conditioning function to heat the cabin, start remote charging and set a daily charging schedule. The charging schedule can be optimised remotely to take advantage of cheaper off-peak electricity tariffs.



## **ZOE provides clever technology and features that help maximise its range.**

Renault's Range Optimizer combines the benefits of new-generation regenerative braking technology, a heat pump that reduces power demand for cabin heating when driving and Michelin Energy™ E-V tyres to boost range by almost 25 per cent.

There is also an Eco driving mode, while the car provides the driver with Eco-driving tips to wring every last mile out of the energy stored in the batteries. Pre-conditioning allows the car's interior to be warmed or cooled remotely while it is plugged in to a power source. Eco-mode automatically adjusts engine power and air conditioning operation to increase the range by up to 10 per cent.

### **1. Regenerative braking:**

ZOE's new-generation regenerative braking recharges the battery during deceleration and braking. When the driver releases the accelerator pedal, the electric motor recovers kinetic energy that would otherwise be lost as heat. To maximise the potential power savings, Renault developed a new system with Bosch that intelligently distributes the braking force between the action of the brake pads and power unit braking, so that maximum charging effect is achieved. The action of the two braking components has been fine-tuned to prevent jolts or pronounced engine braking when on the move.



### **2. Heat pump – a production first:**

The heat pump in ZOE is the first time such an innovation has been used in a production car. It is also standard equipment on ZOE yet remains a cost option on several of its competitors.

To cool the cabin, the system works like a normal electric air conditioning system. To heat the interior, it reverses the operation cycle: air is taken from outside the vehicle, compressed and heated and then directed into the car.

This means the cabin can be heated with minimal impact on range. The heat pump uses up to three times less energy than a conventional system to produce an equivalent level of heating. Moreover, the desired cabin temperature is reached more quickly and maintained at a more stable level than in an ICE vehicle, where cabin heating depends on wasted energy from the engine.



### **3. Michelin EV tyres:**

ZOE was the first vehicle to be fitted as standard with Michelin's highly energy-efficient tyres. Not only do they provide energy savings, safety and hard-wearing performance, they are also designed to reduce the high energy losses from rolling resistance, while handling the sharp acceleration that is a characteristic of electric vehicles.

Tyres account for up to 30 per cent of the energy consumption on an electric car, generating heat as the tyre deforms under load on contact with the road. Reducing this heat build-up makes it possible to reduce the energy used. The Michelin ENERGY™ E-V tyres generate negligible heat build-up when driving, but the area of rubber in contact with the road can heat up quickly under braking, reducing the car's stopping distance. Michelin ENERGY E-V tyres are not available with the 17-inch alloys offered as a no-cost option on ZOE S Edition models, therefore WLTP range is reduced to 174 miles.

### **4. Chameleon Charger™:**

Renault's patented Chameleon™ charger allows ZOE to be charged using different power levels through the same socket. With the new Z.E.40 battery and Q90 motor (Quick Charge version), an 80 per cent charge is possible in 65 minutes from a 43kW supply. Owners can monitor battery charging and vehicle range remotely from their smartphone, tablet or computer using the My Z.E. Connect or My Z.E. Interactive systems.

### **5. Cabin pre-conditioning:**

Using ZOE's pre-conditioning function, the cabin can be cooled or warmed to a pre-selected temperature when the car is connected to a charging station, at a time to suit the owner. The timing can be set using the R-LINK integrated tablet, or remotely using a computer, tablet or smartphone on vehicles equipped with My Z.E. Interactive.

This means that ZOE will be heated or cooled to the owner's preferred temperature while the car is still connected to a charging point. Energy needed to heat or cool the interior is therefore not draining the battery. When the car is driven off, the air conditioning or heating is able to maintain the set temperature without having to draw extra power. The system can also be activated when the car is not connected to a charger, but only for a five-minute period. This can be done using the dedicated button on the hands-free card, or using a smartphone or computer.

### **Z.E. Voice**

When driving around town, Z.E. Voice adds another safety dimension up to speeds of 18mph (above which tyre and road noise would be sufficient to alert pedestrians). The audible warning informs pedestrians and cyclists of the vehicle's otherwise silent approach. The sounds it makes were developed in association with organisations for blind and visually impaired people. Different sounds can be selected depending on the owner's preference.

# Powertrains, Chassis and Driving Dynamics

## Driving enjoyment still unparalleled

Driving a Renault electric car is a surprising blend of punchy performance and peace and quiet. Acceleration and pickup are brisk from low speeds and there is no engine noise or vibrations.

The ZOE is responsive, easy to handle and enjoyable to drive, with a chassis tailored to the specific characteristics of electric vehicles and specially tuned steering, tyres and shock absorbers.

ZOE comes with the R110 electric motor, which was introduced in 2018 and combines extra power with even greater driving enjoyment.

Derived from the R90 electric motor, the R110 version maintains the same class-leading 'real world' range of 186 miles and compact dimensions yet is now 16hp more powerful. The improved power can be felt most at higher speeds, with the new electric motor enabling the latest ZOE to accelerate two seconds faster (from 49.7-to-74.5mph / 80-to-120kph) than its predecessor. Around town, the R110 motor offers the instant availability of peak torque of 225Nm, ensuring ZOE is as nimble as ever in urban areas.

In addition to carrying over the R90's outstanding energy efficiency, the R110 packs a combination of electrical machine- and power-related innovations that have yielded an extra 12kW with no increase in either weight or volume. The electric motor is maintenance-free, waterproof and requires no lubrication, and overall ZOE's servicing costs are up to 20 per cent lower than for an equivalent ICE vehicle, helped by the fact there is no timing belt, air filter or liquids to replace and no oil changes.

The ZOE's quiet and relaxing drive is aided by the noise levels measured inside the ZOE's cabin at speeds of between 25 and 45mph range from 60 to 65dB. That's two to three times quieter than an equivalent internal combustion-engined car.

All ZOE variants are equipped with the advanced Z.E. 40 battery. The battery boasts 41kWh of useful energy, equivalent to almost double the storage capacity of that of a standard battery (i.e. 22kWh of useful energy).

The energy density of the Z.E. 40 battery has been optimised through Renault working in partnership with LG Chem. This involved increasing the battery's storage capacity without making it bigger or a lot heavier. The ZOE's new battery has the highest energy density on the market.

Like a standard 22kWh battery, the Z.E. 40 battery has 192 cells and 12 modules, but almost double the storage capacity. This was achieved by improving the chemistry of the battery cells and adding active materials.



## Driving range

Fitted with the Z.E. 40 battery, ZOE offers a real-world range of 186 miles in urban or suburban areas in summer conditions. Users no longer need to worry about charging their car as often and can put it to a wider variety of uses. The ZOE's driving range also removes the final psychological barrier that stands in the way of buying an electric car – so called 'range anxiety'.

For customers more likely to use public rapid chargers whilst travelling longer distances, the Q90 option is still available with both trim levels. This charges the ZOE from 0-80 per cent full in just over an hour when using a 43kW charge point. The ZOE Q90 with Z.E.40 battery provides an estimated

real-world range of 174 miles. Using the 7kW Wall-box supplied and fitted free with the car, the latest Z.E.40 ZOE is fully charged in around seven and a half hours.

The dashboard instruments and the R-LINK multimedia system provide helpful information to manage the journey, monitor vehicle range and plan the most effective charging, and switching the car to Eco mode can increase range by 10 per cent. Using the pre-conditioning function to warm up the cabin before setting off also has a positive effect on the distance that can be covered.



## Suspension and steering

ZOE is built on the Alliance 'B' platform, as used by Clio and around 20 other Renault-Nissan Alliance vehicles. The front suspension is shared with the fourth-generation Clio, too: MacPherson-type struts with a lower wishbone arm. The subframe and lower suspension arms are taken from the Mégane, in the next segment up, to achieve greater ride comfort and more precise steering.

The programmed-deflection flexible beam in the rear suspension is the most robust in the Renault group, to accommodate the weight and position of the battery. It has been tuned for extra comfort, with the addition of polyurethane bump stops to improve damping.

The location of the battery beneath the vehicle floor helps balance the weight between front and rear and achieve better traction. The car's centre of gravity is 35mm lower than in Clio, the tracks are 16mm wider and the torsional stiffness 55% greater. These factors improve ZOE's stability and road behaviour.

The steering is precise and easy. ZOE adopts linking rods from Clio Renaultsport, a car renowned for the quality of its steering, with rubber subframe mounts that have been specially developed for more dynamic performance. The low steering ratio – just 2.71 turns lock-to-lock – combined with a power steering motor from the next segment up contribute to better handling and more enjoyable driving experience.



## Charging made simple

ZOE adds to its vast usability with easy and adaptable charging.

The Chameleon™ charger, patented by Renault, can adapt to the available power supply – whether single or three-phase – from 3kW up to 43kW.

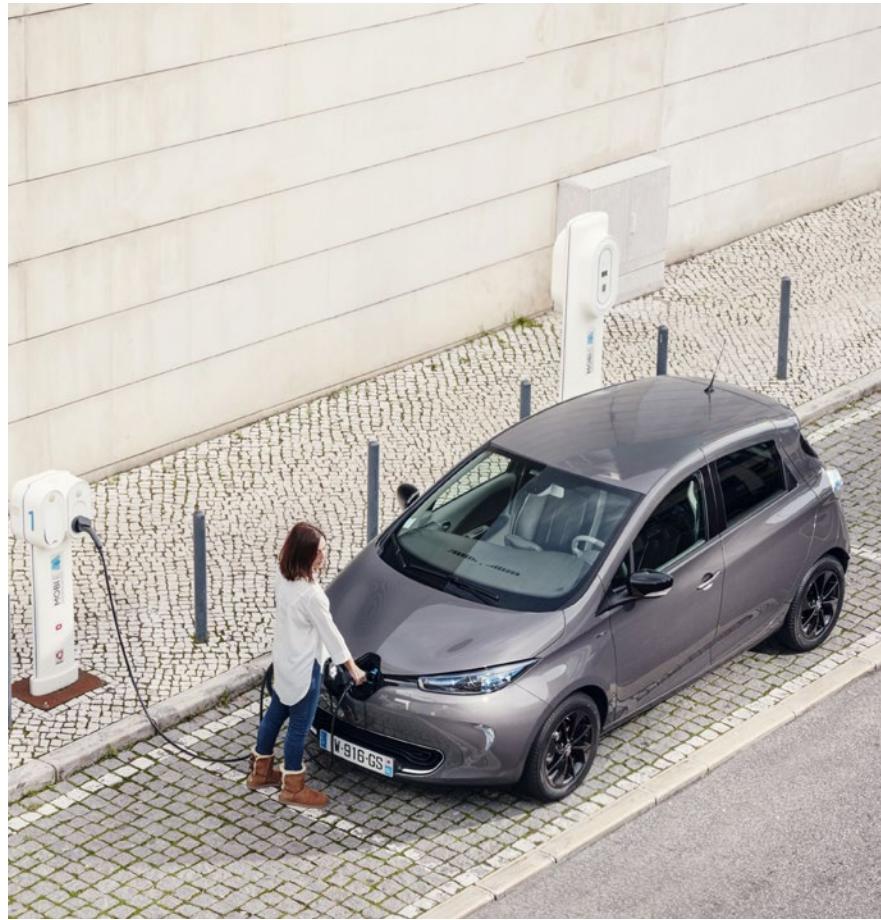
Renault developed Chameleon™ as a cost-efficient solution for providing electric cars with a powerful onboard charger. The basic concept is to 'divert' the motor and inverter from their role in providing traction so that they can also contribute to charging the battery. The charging process is managed by the junction box, a new Renault-developed sub-system which changes the AC current to DC and communicates with the charging station. The unit is only slightly larger and heavier than the 3kW charger found on most other electric vehicles, but thanks to its inverters and motor windings, it allows charging power to reach 43kW.

ZOE is equipped with a charging cable that can accept power levels between 3kW and 22kW. It is connected to the car using a socket on the front of the car, which can be unlocked using the hands-free card or a switch to the right of the steering wheel. Fast-charging stations (43kW) have their own built-in cable that is connected to the car.

When the cable has been attached, the Z.E. signal lights up and pulses to show charging is under way. When the process is complete, the light remains fixed. If there is a problem, it shows red.

Charging when ZOE owners are out and about is easy thanks to the Chameleon™ charger. ZOE is compatible with more than 3,800 public charge points which are already live around the UK. While this number is impressive, it is also growing weekly and the network is expanding to make sure drivers can charge even more easily, wherever they are.

These charge points are simple to find via ZOE's R-LINK system. This information is a significant tool to help range confidence. An interactive charge point map is live on [www.renault.co.uk](http://www.renault.co.uk) and includes details of compatibility and includes details of compatibility.



# UK Specifications

ZOE offers a choice of two versions – Dynamique Nav and S Edition.

Both versions benefit from a comprehensive specification with the top-of-the-range S Edition version allowing drivers to add a luxurious theme to their ZOE ownership experience.

Safety is of a typically high Renault standard and ZOE was awarded a maximum five-star crash test rating from Euro NCAP, as well as the finest score of any supermini tested in 2013. Standard safety features include ABS with Electronic Brake-force Distribution and Emergency Brake Assist, ESC (Electronic Stability Control), front, side body and side head airbags for the driver and front passenger, front seat belts fitted with pre-tensioners and load limiters, rear outer seat belts with load limiters, plus ISOFIX child seat fixing points on the outer rear seats and front passenger seat. There's also Z.E Voice – an innovative audible warning system that operates up to 18mph to inform pedestrians and cyclists of the ZOE's approach.

The Dynamique Nav offers a comprehensive specification, which combines comfort with convenience and safety with security. Standard equipment includes hands-free keycard with push button start/stop function, automatic lights and wipers, rear parking sensors, cruise control, climate control, 7-inch R-LINK infotainment system with voice-controlled TomTom sat nav and Android Auto compatibility, electric windows, electric folding mirrors and LED Daytime Running Lights. The spacious interior features black upholstery, leather-covered steering wheel and ample storage space. My Z.E. Interactive is also standard, providing remote battery charging, preconditioning and charge scheduling.

The S Edition incorporates all the technology of the Dynamique Nav with the additions of part premium leather, part synthetic leather, part cloth upholstery; a seven speaker BOSE® audio system, and a rear parking camera. Together with the option of upgrading, free of charge, to 17-inch 'black optemic' alloys, the S Edition is further identified through unique badging and BOSE® sill plates.

ZOE remains available to purchase with a monthly battery lease agreement or outright with no battery lease agreement.

As part of the new vehicle package owners also receive a free domestic charging point. The 7kW domestic Wall-box is supplied and fitted by Chargemaster, Renault's preferred UK EV infrastructure partner.

Further peace of mind comes in the form of the Renault 3 year warranty and roadside assistance package. The warranty guarantees the car for three years or 100,000 miles (unlimited in the first two years). If the battery is leased it is guaranteed to charge to at least 75 per cent of its original capacity, or Renault will repair or replace it. If the battery is bought outright with the car it is guaranteed to charge to at least 66 per cent of capacity for eight years or 100,000 miles.

With battery lease, Renault provides 24/7 roadside assistance for the duration of the lease agreement, including help if the battery runs out of charge.



# Standard features

## DYNAMIQUE NAV



### EXTERIOR STYLING

- 16" 'black shadow' alloy wheels
- Chrome front grille surround

### INTERIOR STYLING

- Black Dynamique Nav upholstery
- Steering wheel leather-covered

### DRIVING AND CONTROLS

- Hands-free keycard with push button Start/Stop function
- Automatic headlights and rain sensitive front wipers

### COMFORT AND CONVENIENCE

- Electric windows - rear
- Electrically folding door mirrors

### COMMUNICATION AND

#### ON-BOARD TECHNOLOGY

- 4x35W 3D sound Renault R-Link Multimedia system including 7" touch screen, TomTom® LIVE navigation, DAB FM tuner, Bluetooth®\* audio streaming and hands-free calls, and voice control
- Rear parking sensors



16" 'black shadow' alloy wheels



Dynamique upholstery



### Z.E. SPECIFIC EQUIPMENT

- Z.E. 40 Battery
- 16" Michelin ENERGY E-V tyres
- Z.E. Interactive (remote battery charging, remote preconditioning, and charge scheduling) 3 year subscription. Renewal required after 3 years\*\*

\*For compatible devices, please refer to <https://www.renault.co.uk/services/multimedia/bluetooth-compatibility.html>

\*\*Z.E. Connected Services is compatible with Apple iOS® and Android® devices and is available on the App store and Google Play store®.

# Standard features

## S EDITION (additional equipment to Dynamique Nav)



17" 'black optemic' alloy wheels

S Edition upholstery



### EXTERIOR STYLING

- 17" 'black optemic' alloys\*\*
- BOSE® sill plate and exterior badges

### INTERIOR STYLING

- Part premium leather, part synthetic leather, part cloth upholstery

### COMFORT AND CONVENIENCE

- Rear view reversing camera

### COMMUNICATION AND ON-BOARD TECHNOLOGY

- BOSE® Premium 3D Sound Renault R-Link Multimedia system including 7" touch screen, TomTom® LIVE navigation, DAB FM tuner, Bluetooth®\* audio streaming and hands-free calls, and voice control

\*For compatible devices, please refer to <https://www.renault.co.uk/services/multimedia/bluetooth-compatibility.html>

\*\*Free of charge option. Please be aware that Michelin ENERGY E-V tyres are not available with 17" alloys, therefore WLTP range with this option will be reduced to 174 miles.



# Wall-Box included

Renault has chosen Chargemaster as our preferred Electric Vehicles Charging partner, through which we are able to take advantage of a government grant of up to 75% support. Chargemaster is able to offer our retail customers a free 7kW Homecharger, fully installed and able to charge a ZOE with Z.E. 40 battery from flat-to-full in 7-8 hours.



## A little information about Chargemaster...

Chargemaster is the UK's leading provider of domestic charging solutions, having supplied over 30,000 domestic charging units to date in 12 European countries.

Chargemaster Homechargers are manufactured right here in the UK, at Chargemaster's modern manufacturing facilities. Chargemaster offers a comprehensive installation service with its team of experienced and qualified engineers, right across the UK. Once a Chargemaster Homecharger has been installed, users are able to apply for a POLAR Network Card, giving access to the UK's largest public charging infrastructure, with over 6,500 charging points in key locations all across the country.

# ZOE pricing

We have created two ownership options to allow you to tailor how you buy your ZOE. For more information on how both of those work have a look on the Purchase Options page in your ZOE brochure.

## BATTERY HIRE PRICING ZOE

MODEL	kW(HP)	CO <sub>2</sub> g/km	Benefit in kind <sup>†</sup>	Insurance group	Basic price (£)	Vat 20% (£)	Total retail (£)	Total retail price after <b>picg</b> (£) <sup>‡</sup>	Manufacturer's "on the road" R.R.P. after <b>picg</b> <sup>‡</sup>
Dynamique Nav R110 Z.E. 40	80 (107)	0	9%	19E	17,683.33	3,536.67	21,220.00	17,720.00	£18,420.00
Dynamique Nav Q90 Z.E. 40 Quick Charge	65 (88)	0	9%	16E	18,308.33	3,661.67	21,970.00	18,470.00	£19,170.00
S Edition R110 Z.E. 40	80 (107)	0	9%	TBC	18,391.67	3,678.33	22,070.00	18,570.00	£19,270.00
S Edition Q90 Z.E. 40 Quick Charge	65 (88)	0	9%	TBC	19,016.67	3,803.33	22,820.00	19,320.00	£20,020.00

Combined Fuel Consumption (mpg): not applicable on electric vehicles. <sup>†</sup>Renault UK Limited does not offer tax advice and recommends that all Company Car Drivers consult their own accountant with regards to their particular tax position. <sup>‡</sup>All prices shown are the Manufacturer's Recommended Retail Prices. "On the road" price includes delivery to the dealer premises, number plates, 12 months government road fund licence (depending on CO<sub>2</sub> emissions) and First Registration Fee at £55. Other goods or services supplied by agreement between the customer and the Dealer are not included. For more information contact your dealer.

## BATTERY HIRE

Monthly battery rental pricing, including VAT and assistance for all breakdowns:

ANNUAL MILEAGE	up to 4,500	up to 6,000	up to 7,500	up to 9,000	up to 10,500	Unlimited*
Z.E. 40	£59.00	£69.00	£79.00	£89.00	£99.00	£110.00

Battery rental including assistance (£ VAT included) Extra mileage: 8p/mile £ VAT included Minimum annual mileage: 4500 miles

The ZE flex battery hire agreement is based upon annual mileage figures. The mileage bandings above represent the most commonly requested distances. If you drive further than this, we will have a banding to suit you. Please ask your dealer for more details. Excess mileage is charged 8p/mile (inc. VAT). \*Unlimited battery hire is only available for private customers.

## FULL PURCHASE PRICING ZOE i

MODEL	kW(HP)	CO <sub>2</sub> g/km	Benefit in kind <sup>†</sup>	Insurance group	Basic price (£)	Vat 20% (£)	Total retail (£)	Total retail price after <b>picg</b> (£) <sup>‡</sup>	Manufacturer's "on the road" R.R.P. after <b>picg</b> <sup>‡</sup>
i Dynamique Nav R110 Z.E. 40	80 (107)	0	9%	18E	23,183.33	4,636.67	27,820.00	24,320.00	£25,020.00
i Dynamique Nav Q90 Z.E. 40 Quick Charge	65 (88)	0	9%	16E	23,808.33	4,761.67	28,570.00	25,070.00	£25,770.00
i S Edition R110 Z.E. 40	80 (107)	0	9%	TBC	23,891.67	4,778.33	28,670.00	25,170.00	£25,870.00
i S Edition Q90 Z.E. 40 Quick Charge	65 (88)	0	9%	TBC	24,516.67	4,903.33	29,420.00	25,920.00	£26,620.00

Combined Fuel Consumption (mpg): not applicable on electric vehicles. <sup>†</sup>Renault UK Limited does not offer tax advice and recommends that all Company Car Drivers consult their own accountant with regards to their particular tax position. <sup>‡</sup>All prices shown are the Manufacturer's Recommended Retail Prices. "On the road" price includes delivery to the dealer premises, number plates, 12 months government road fund licence (depending on CO<sub>2</sub> emissions) and First Registration Fee at £55. Other goods or services supplied by agreement between the customer and the Dealer are not included. For more information contact your dealer.

**picg** = Plug in Car grant. See ZOE brochure for more information.

OPTIONS	Dynamique Nav	S Edition	MRRP <sup>^</sup>
<b>COMMUNICATION</b>			
BOSE® premium 3D sound with FM/DAB tuner	○	●	£250.00
<b>TECHNOLOGY</b>			
Connectivity + TomTom® LIVE 3 year subscription	○	○	£175.00
Heated front seats in 3 levels	○	○	£250.00
Rear view camera	○	●	£250.00
Western European mapping	○	○	£110.00
<b>EXTERIOR</b>			
17" alloy wheels with non-EV tyres**	○	FOC	£310.00
Metallic paint	○	○	£550.00
Metallic Renault i.d. paint	○	○	£650.00
<b>INTERIOR</b>			
Blue interior colour touch pack	○	-	£175.00
Purple interior colour touch pack	○	-	£175.00
<b>ACCESSORIES (PRICES INCLUDE FITMENT)</b>			
EVSE cable for occasional use charging with 10 amp domestic socket - charge time in excess of 30 hours for vehicles equipped with Z.E. 40 battery	○	○	£560.00
Protection pack: alarm, door sills, boot liner	○	○	£340.00
Delivery pack	○	○	£45.00
Premium delivery pack	○	○	£90.00

● = Standard (therefore no cost); ○ = Optional; - = Not available; FOC = Free of charge option. <sup>^</sup>Manufacturer's Recommended Retail Price. \*\* Non-EV tyres can influence the range of the car by almost 10% in comparison to EV tyres.



# Interior personalisation

## DYNAMIQUE NAV Purple interior option touch pack



This new option pack on Dynamique Nav adds purple touches to the interior of your car.

- Purple accents around the dashboard, the speakers and the gearbox lever
- Black strips surrounding the R-LINK screen
- Specific purple/black upholstery with purple stitching and accents on the doorpanel armrests



## DYNAMIQUE NAV Blue interior option touch pack\*

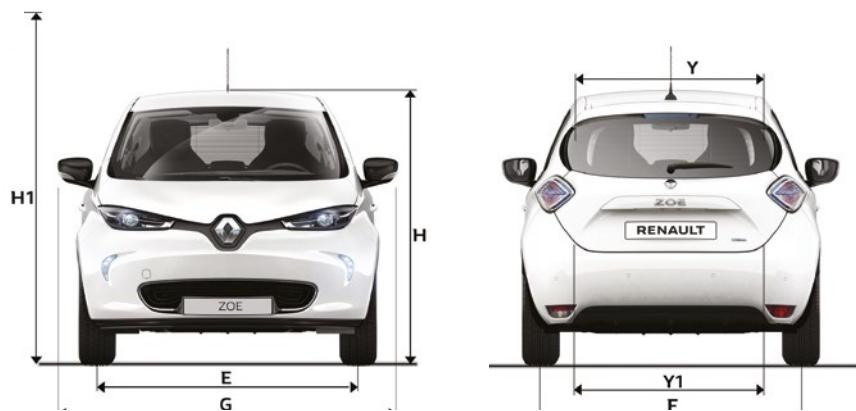
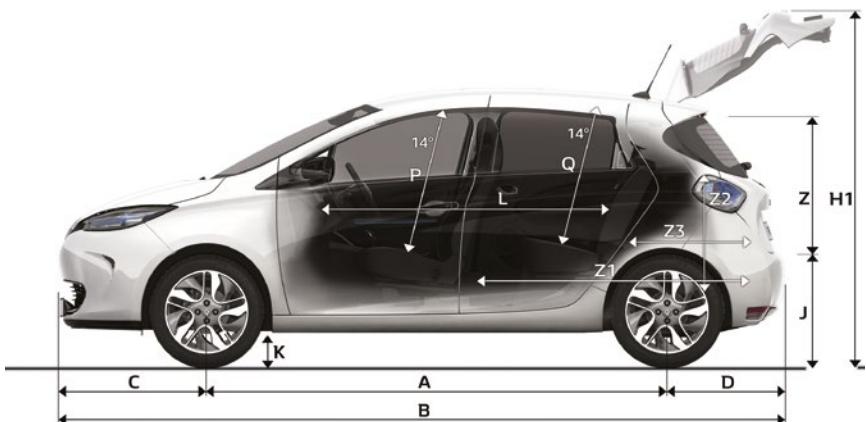


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# Dimension diagrams



## BOOT VOLUME (litres)

Boot height under shelf	338
Boot with rear seat folded	1,225

## DIMENSIONED DRAWING (mm)

A	Wheelbase	2,588
B	Overall length	4,084
C	Front overhang	839
D	Rear overhang	657
E	Front track	1,511
F	Rear track	1,510
G	Overall width on moulding strips/with wing mirrors	1,730 / 1,945
H	Unladen height	1,562
H1	Unladen height with tailgate open	2,028
J	Unladen boot sill height	724
K	Ground clearance, laden	120
L	Cabin length	1,678
M	Front elbow width	1,384
M1	Rear elbow width	1,390
N	Front shoulder width	1,365
N1	Rear shoulder width	1,320
P	Front headroom at 14°	904
Q	Rear headroom at 14°	826
Y	Maximum boot entry width	941
Y1	Lower boot entry width	899
Y2	Interior width between wheel arches	1,037
Z	Boot opening height	685
Z1	Maximum loading length with rear bench seat folded	1,426
Z2	Height under shelf	622
Z3	Length of load behind seats	580

# Technical Specifications

		DYNAMIQUE NAV / S EDITION R110 Z.E. 40	DYNAMIQUE NAV / S EDITION Q90 Z.E. 40 QUICK CHARGE OPTION
Approval types		AGVYAO	AGVYAO
Number of seats		5	5
<b>ENGINE</b>			
Engine type		5AGEN3	5AGEN2
Electric motor technology		Synchronous with rotor coil	Synchronous with rotor coil
EEC maximum power (kW/hp) / at maximum rpm		80 (108) / 3,395-10,886	65(88) / 3,000-11,300
EFC peak torque (Nm) / at maximum rpm		225 / 500-3,395	220 / 250-2,500
<b>BATTERY</b>			
Technology		Lithium Ion	Lithium Ion
Total voltage		400	400
Number of modules / cells		12 / 192	12 / 192
On-board power (kWh)		41	41
Battery weight (kg)		305	305
<b>CHARGING</b>			
Chameleon™ Charger		Adaptable for single or three-phase power from 3 - 43 kW	Adaptable for single or three-phase power from 3-43 kW
3kW (single phase 16a charge point)		15 hours	15h 30 mins
7kW (single phase 32a found as domestic wall boxes or in public car parks)		7h 30 mins	8h 30 mins
Charging time 22kW (3 phase 32a charge point found in public car parks)		2h 40 mins	2h 40 mins
43kW (3 phase 63a charge point found at motorway service stations)		1h 40 mins (80%)	65 mins (80%)
<b>GEARBOX</b>			
Gearbox type		Gearbox with single-speed reduction gear bar	Gearbox with single-speed reduction gear bar
Number of forward ratios		1	1
<b>PERFORMANCE</b>			
Top speed (mph)		84	84
0-30 mph / 0-62 mph (secs)		3.9 / 11.4	4.1 / 13.2
<b>EEC FUEL CONSUMPTION Standard no. 93/116</b>			
WLTP <sup>(1)</sup> driving range (miles)		186 <sup>(2)</sup>	186 <sup>(2)</sup>
Likely driving range in suburban driving: winter season / warmer season (miles)		124 / 186	112 / 174
Standardized consumption (Wh/km)		178	180
CO <sub>2</sub> (g/km) <sup>(3)</sup>		0	0
Urban / extra-urban / mixed conditions (L/km) <sup>(3)</sup>		0 / 0 / 0	0 / 0 / 0
<b>STEERING</b>			
Assisted		Yes (electric)	Yes (electric)
Turning circle between kerbs (m)		10.56	10.56
Number of steering wheel turns		2.73	2.73
<b>AXLES</b>			
Front/rear axle types		Pseudo McPherson / Torsion beam rear axle	Pseudo McPherson/ Torsion beam rear axle
Ø front/rear anti-roll bars (mm)		23 / 25	23/25
<b>WHEELS AND TYRES</b>			
Standard wheel rims (")		16" (Dynamique and S Edition)	16" (Dynamique and S Edition)
Tyre dimensions		MICHELIN ENERGY™ E-V tyres: 195 / 55 R16	MICHELIN ENERGY™ E-V tyres: 195/55 R16
<b>BRAKING</b>			
Continental TEVES ABS		Yes	Yes
Emergency Brake Assist (EBA)		Yes	Yes
Electronic brake force distribution		Yes	Yes
ESP with UCL		Yes (+ASR)	Yes (+ASR)
Front: solid disc (SD), ventilated disc (VD) Ø (mm)		Ventilated disks, 259	Ventilated disks, 259
Rear: drum (D), solid disc (SD), ventilated disc (VD) Ø (mm)		9" drum	9" drum
Parking brake		Manual	Manual
<b>AERODYNAMICS AND CAPACITY</b>			
SCx		0.75	0.75
Fuel tank (L)		0	0
<b>WEIGHT (kg)</b>			
Unladen kerb weight		1,575	1,548
Unladen kerb weight on front / rear		917 / 658	904 / 644
Max. gross vehicle weight (GVW)		1,954	1,945
Within the max. allowable front/rear GVW		1026 / 928	1020 / 925
Max. braked / unbraked towing weight		Not allowed / Not allowed	Not allowed / Not allowed

(1) WLTP figures shown are for comparability purposes; only compare figures with vehicles tested to the same technical procedures. The WLTP electric range shown has been achieved using the new (WLTP) test procedure. Figures obtained after the battery was fully charged. Actual real world driving results may vary depending on factors such as the starting charge of the battery, accessories fitted after registration, weather conditions, driving styles and vehicle load. Renault estimates average real world driving figures for this vehicle as 186 miles in summer and 124 miles in winter with the R110 motor and 174 miles in summer and 112 in winter with Q90 motor, depending on the factors above. (2) The official WLTP driving range is 186 miles (R110) and 186 miles (Q90). (3) Fuel consumption and emissions measured in accordance with applicable regulations.



# Renault Z.E. range

The Renault Z.E. range totals five vehicles – the ZOE supermini, Twizy urban quadricycle, and its Cargo derivative, Kangoo Van Z.E. with its recently upgraded range and the recently announced Master Van Z.E. – a large electric van created to satisfy last-mile delivery objectives in the city.

Since 2010, Renault has sold more electric vehicles in Europe than any other manufacturer, with over 100,000 Renault electric vehicles already on the road. More than one electric vehicle sold in every four in Europe is a Renault.

The ZOE has consistently been one of Europe's best-selling electric vehicles and the Kangoo Van Z.E. is one of Europe's best-selling electric LCVs.



# Manufacturing

Renault is responsible for the design, development and production of the ZOE, as well as most of its mechanical components. ZOE, as with all the group's mass market electric vehicles, was designed and developed by designers and engineers working out of the Renault Technocentre near Paris.

ZOE is manufactured at Renault's Flins plant, near Paris, on the same assembly line as the Renault Clio, with which it shares a common platform. It is built to the same high quality standards and underwent the same approval tests as its petrol and diesel-powered sister models, together with additional testing specific to electric vehicles.

The Z.E. 40 battery is also assembled at Renault's Flins plant, while the R110 motor is manufactured at the Cléon plant.

The ZOE's battery housing and front and rear suspensions are also 100 per cent Renault components. They are produced at Renault's Le Mans plant in central France and were designed and developed by Groupe Renault's Chassis and Electric Vehicle Engineering Department.

More than 60 patents were filed during the development of the ZOE, which was the first car in Europe designed exclusively to accommodate all-electric technology, and 95 patents were filed for the ZOE's 100 per cent Renault electric motor.

ZOE was road-tested over 850,000km (more than half a million miles) to hone its dynamic performance and assess its reliability and durability in all driving conditions. The car was spared nothing and was subjected to extreme temperatures, dryness, humidity, rough surfaces, dust and gravel. Special emphasis was placed on the performance of the battery and electric motor: testing in temperatures down to -20°C in Sweden confirmed the battery's resistance to the cold.

Like other Renault models, ZOE also followed the EDAU programme of durability, usage and appearance testing, which reproduced the demands of three years' everyday driving in an intensive two-month period. The results showed ZOE performing among the best on the market.

The quality of the seals was tested to the limit, with the car doused with high pressure jets and simulated rainfall up to 800mm an hour – the maximum known worldwide. The car was driven through 40cm of water at 10km/h (6mph), totally immersing the battery, to ensure it would not fail.

The batteries for all Renault electric vehicles are tested in a dedicated facility at the Lardy centre near Paris for their mechanical and chemical endurance, reliability and performance over time. Being a sensitive part of the powertrain, they undergo 'abusive' testing by fire, immersion, overloading, loosening, dropping, excess pressure and external short circuiting. There is also an extreme 'nail test' in which a nail is embedded in the middle of a cell, all to ensure no compromise in safe performance.

Groupe Renault has gained substantial expertise in electric vehicles as the benchmark in the fields of both production and racing cars. In addition to its status as a pioneer and the leader of the electric vehicle market in Europe, Renault was also a driving force behind the success of the FIA Formula E Championship which features all- electric single-seater cars racing in city centres around the world.



# ZOE History



**2008** Carlos Ghosn announces at the Davos Forum that Renault will market a range of four electric vehicles. The flagship will be X10 – the project which went on to become ZOE.

**2009** Jean Séméria presents his design for ZOE to the project management team. In September, Renault stuns the motor industry by unveiling four Z.E. concepts at the Frankfurt motor show. One of these is the ZOE Z.E. Concept. Its hi-tech features point towards a future car, but the styling deliberately does not.

**2012** The production-ready ZOE is unveiled at the Geneva motor show and ZOE goes on to set the longest 24-hour distance record for a production EV in France. In September, first customer orders are accepted at the Paris motor show with the first European deliveries commencing in December.

**2013** ZOE receives maximum five star Euro NCAP crash test result. Renault UK announces deal to supply a free wall-box with every new and pre-ordered ZOE with the first models arriving in UK showrooms in June.



**2015** In January, ZOE is named Best Supermini of 2013 by Euro NCAP. At the end of the year, Renault UK added the option to buy ZOE outright (ZOE i) as well as the existing lower price with monthly battery lease payments.

**2015** New R240 motor with extended range of 149 miles made available alongside the original motor. Range restructured to Expression Nav, Dynamique Nav and Dynamique Nav Rapid Charge (with original motor) to take account of this.

**2016** ZOE with Z.E. 40 battery is launched allowing a 250 mile NEDC range, setting a new milestone in the market of affordable electric vehicles.

**2018** More powerful R110 motor introduced, offering even greater driving pleasure. An extra 16hp enables the ZOE to accelerate significantly faster at higher speeds.

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