

Renault Kangoo

E-TECH EV45 ELECTRIC FWD AUTOMATIC





Clean Air Index





Energy Efficiency Index

Greenhouse Gas Index



	Laboratory Test	NMHC	NO _x	NH ₃	со	PN
10.0 /10	Cold Test					
10.0 /10	Warm Test					
10.0 /10	Highway					
10.0 /10	Cold Ambient Test					
	Road Test					
10.0 /10	On-Road Drive					
5.0 /5	On-Road Short Trip					
8.0 /8	On-Road Heavy Load					
5.0 /5	On-Road Light Load					
2.0 /2	Congestion					



Comments

The tested Kangoo E-Tech is a pure electric vehicle and no pollutants are emitted at the tailpipe. Accordingly, the car scores the maximum index of 10 in this part of the assessment.



Energy Efficiency Tests

	Laboratory Test	Energy				
9.9 /10	Cold Test		\rightarrow	21.0 kWh/100 km		
9.9 /10	Warm Test		\rightarrow	20.8 kWh/100 km		
7.7 /10	Highway	•	\rightarrow	35.8 kWh/100 km		
6.8 /10	Cold Ambient Test	•	\rightarrow	42.3 kWh/100 km		
		Consumption		Driving Range		
	Average	25.9 kWh/100 km		217 km		
	Worst-case	42.3 kWh/100 km		125 km		



Comments

Kangoo's consumption is rather high, but to some extent this can be explained by the body type, which is designed to transport goods and offers a high utility value. The vehicle is challenged by the Highway Test where 35.8 kWh/100 km are needed. With 42.3 kWh/100 km, the -7°C Cold Ambient Test requires twice the energy used in the standard test and the range is reduced to 125 km, if such high consumption would be maintained while driving. The measured charging (11 kW) and discharging efficiency is rather poor – 84% of the electricity withdrawn from the grid is available at the battery output.



	Greenhouse gases	CO ₂	N ₂ 0	CH4
10.0 /10	Cold Test			
10.0 /10	Warm Test			
8.1 /10	Highway	•		
7.0 /10	Cold Ambient Test	•		



Comments

The Greenhouse Gas Index is based on a Well-to-Wheel+ approach, meaning that the greenhouse gas emissions related to the supply of energy are added to the tailpipe emissions. Since the Kangoo E-Tech is a battery electric vehicle, its greenhouse gas emissions originate only from the upstream processes of electricity supply – 60 to 120 g CO_2 -eq./km, depending on the test consumption. Thanks to the relatively low CO_2 emissions of European electricity production, the Kangoo scores a 8.7/10 in this part of the assessment, despite its high energy demand.

Our Verdict

The Renault Kangoo E-Tech is a pure electric vehicle with high utility value. It offers enhanced transport capabilities for goods and targets small and medium business. With its relatively small battery (45 kWh) the car is meant to be used mainly on shorter distances. The body type and the high empty mass of 1,840 kg help explain the high consumption values. However, the results could have been better with a higher grid-to-battery-output efficiency. The measured 84% is noticeably poorer than the usual 88% of today's electric cars charged with 11 kW. The standard WLTC+ test closely matches the declared consumption value of 20 kWh/100 km. The On-Road Drive was conducted in rainy and light windy weather at 11°C and the recorded consumption was 23.3 kWh/100 km, which corresponds to a driving range of 226 km. With an average score of 90%, the Kangoo E-Tech just manages to receive all 5 Green stars.

Disclaimer 🛛

Specification

Tested Car VF1RFK0027049xxxx

Publication Date 11 2023 Vehicle Class Small MPV **Tyres** 205/60 R16 Emissions Class Euro 6 AX

Mass 1,862 kg Engine Size

System Power/Torque 90 kW/245 Nm Declared CO₂ n.a.

Declared Battery Capacity 45.0 kWh Declared Driving Range Overall 272 km City 382 km Declared Consumption 20 kWh/100 km

Heating Concept PTC



Think before you prin