



OREOS M20

The full electric minibus from the Renault group



ELECTRI CITY

- Quiet and economical
- Reliable - Renault technology
- Accelerated charging

COMPA CITY

- Length : 6 meters
- Light and agile
- Bright (large glass surfaces)

CAPA CITY

- 20 passengers
- Customisable
- Easy and safe driving

SIMPLI CITY

- Easy accessibility (integral low floor)
- Easy to clean
- Maintenance in the Renault network
- «A la carte» funding





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BASE VEHICLE	Renault Master E-TECH
GVW	4,5 T with 1,5T of useful payload
CATEGORY	M2 - Class A
DIMENSIONS	Length 6225 X Width 2470/2050 X Height 2750 mm
AUTONOMY	Up to 150 kms
PASSENGER CAPACITY	20 passengers with up to 10 seats
ELECTRIC DRIVE	Electric engine Renault 57 kW / 225 Nm
TRACTION BATTERY	Renault 52 kWh – less of 3 hours charge @ 22 kW
WARRANTY	2 years on the entire vehicle and 10 years on corrosion

THE ADVANTAGES OF THE OREOS

- Vehicle from the **Renault group**
- **Made in France** at Gretz-Armainvilliers
- **Easy** to use and **robust**
- **Reliable** (proven, latest generation Renault electric vehicle)
- **Quiet, zero emissions**
- **Light, compact and agile chassis**
- Easy accessibility thanks to **an integral low floor**
- **Customisable** interior and exterior design
- Bright passenger saloon thanks to a **large glass surfaces**
- **Accelerated charging** (1 min per kilometre)
- **Cost-efficient and economical** (quick return on investment)
- Maintenance in the Renault PRO+ network (**more than 500 maintenance centres all over Europe**) for a maximum uptime of your vehicle
- « A la carte » **maintenance contracts**



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OVERALL TECHNICAL SPECIFICATIONS

DIMENSIONS

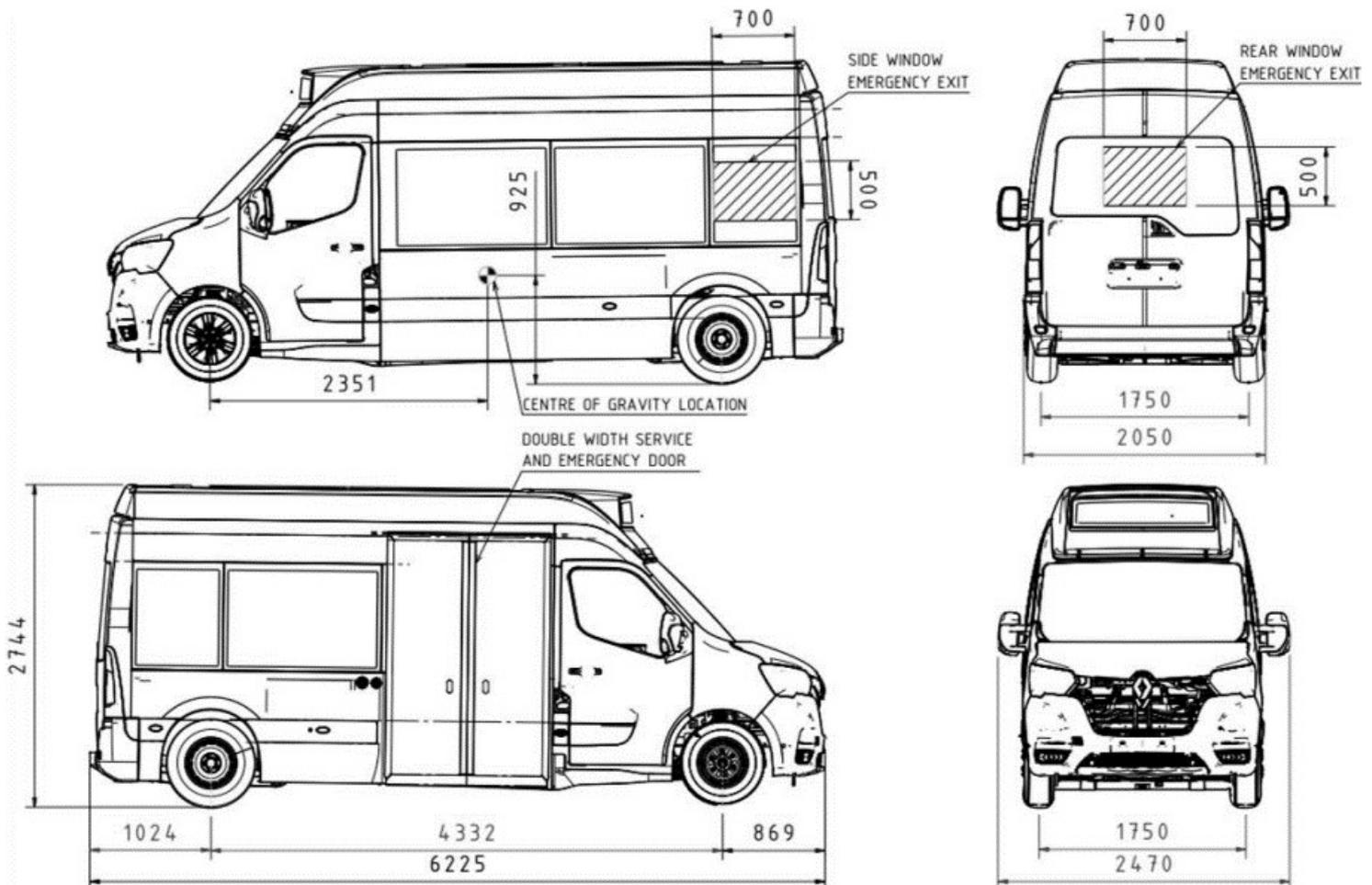
- Basic chassis: RENAULT MASTER E-TECH electrified by PVI in France
- External length 6225 mm
- External width with/without side mirrors 2470 / 2070 mm
- External height 2750 mm
- Internal length 3530 mm
- Internal width Front/between wheel arches 1880 / 1300 mm
- Internal height Front/Rear 1900 / 1800 mm
- Large windows (10 m²)
- Floor height Front/Rear 250 / 350 mm (integral low floor)
- Front overhang 869 mm
- Rear overhang 1024 mm
- Turning radius 8,1 m
- Turning radius between kerbs 7,85 m

MASS

- GVW 4500 kg
- Front axle capacity (min/max) 1450 / 1850 kg
- Rear axle capacity (min/max) 1550 / 2800 kg
- Payload 1500 kg

PERFORMANCE

- Range up to 150 kms
- Maxi start-up gradient @ Empty/GVW 20%/15%
- Max speed 70 km/h (electronic limitation)
- Less of 3 hours charge @ 22 kW



NOTE: The images and technical data in this brochure are not contractual.



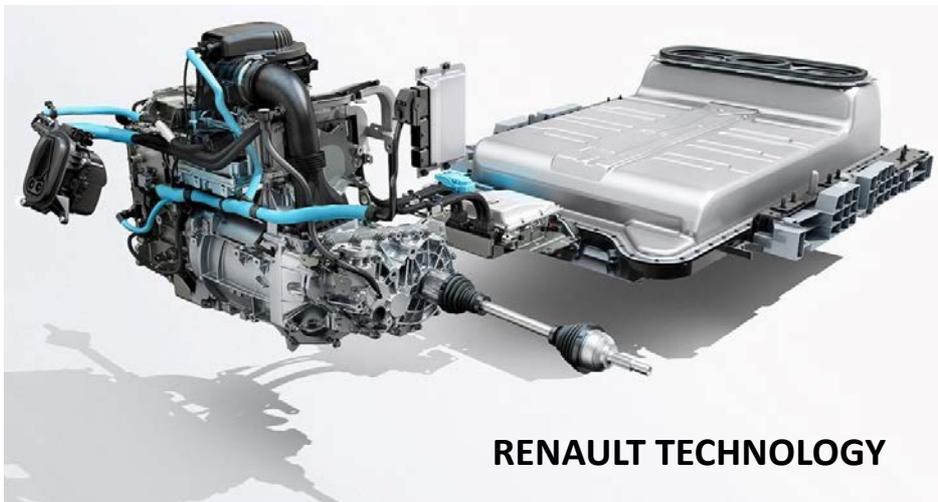
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OVERALL TECHNICAL DATA

ELECTRIC POWERTRAIN

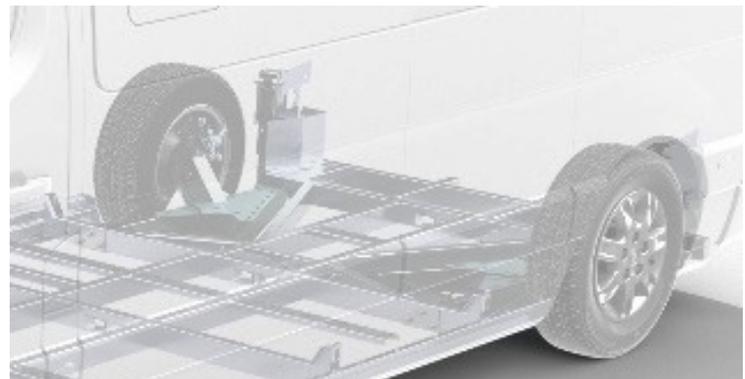
- Electric motor from Renault's major components pool
- Power / Torque max engine 57 kW / 225 Nm
- Traction battery capacity Li-Ion 52 kWh useful
- Traction battery voltage 400 V



RENAULT TECHNOLOGY

CHASSIS AND SUSPENSIONS

- Base Renault Master E-TECH cabin
- Integral low floor (without any steps inside the bus)
- Special stainless-steel structure covered with an underbody rubberized protective coating (10 years anti-corrosion warranty)
- Front mechanical suspension with independent wheels (standard Renault Master axle)
- Mechanical rear suspension with independent wheels (specific axle without shaft)
- Front/Rear tyres 225/75/R16 (single)



INTEGRAL LOW FLOOR AND INDEPENDENT WHEEL SUSPENSIONS



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STANDARD EXTERIOR EQUIPMENT

ACCESSIBILITY

- Metro type passengers service twin door, with anti-jamming device
- Manuel book type ramp for wheelchair boarding and alighting
- Hinged driver door with remote control device
- 7 maintenance access hatches

PAINTING

- Monochrome external paint including bumpers
- External chrome pack on the front face

LIGHTING

- White during the day and blue at night LED lighting in passenger saloon
- Overhead lighting for the driver
- Service door entrance lighting
- Front fog lamps
- Dual-lens front headlamp with DRL LED
- Reverse lights and rear fog lamps

SAFETY

- ABS with emergency brake assistance (EBA)
- Electronic Stability Program (ESP)
- Regenerative braking
- Service door opening hazard warning lights
- Driver airbag
- Tyres inflation/puncture alert
- Additional side marker lights
- Hill start

ELECTRIC CHARGING

- On-board charger 7 kW (a 6-hours charge @80%)
- Charging time with 22 kW (a 1,5-hours charge from 20 to 80%)



type d'installation	puissance de charge	câble à utiliser	temps de recharge batterie de 52 kWh					
			100%	20-80%	50 km	120 km	200 km	
prise domestique standard(2)	2,3kW	câble mode 2 standard en option		32h	16h	6h30	16h	29h
prise domestique Green'Up(1)	3,7kW	câble mode 2 standard en option		19h	10h	4h	10h	19h
borne domestique Wallbox(1)	7,4kW	câble mode 3 inclus à l'achat		9h30	5h	2h	5h	9h30
borne de recharge rapide	22kW	câble solide à la borne		3h	1h30	45min	1h40	3h

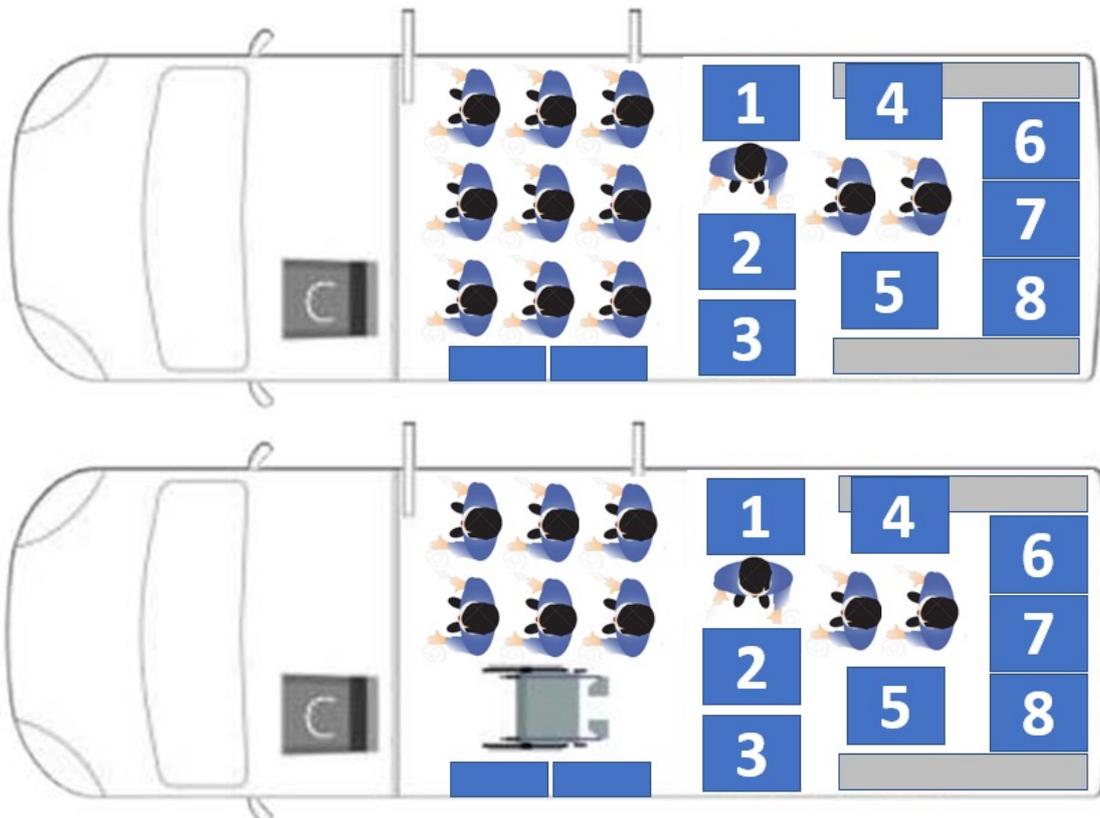
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STANDARD INTERIOR EQUIPMENT

INTERIOR LAY-OUT

- 8 Kiel fixed city bus type seats
- 2 Kiel tip up seats
- Exclusive wheelchair area
- Max. capacity without wheelchair user = 20 passengers
- Max. capacity with wheelchair user = 17 passengers





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STANDARD INTERIOR EQUIPMENT

DRIVER CAB

- Air suspended driver's seat
- Specific close compartment for the Automatic Vehicle Location (AVL) system with space for controller and cashier station
- Electric hand-brake device
- Protected driver cab with partition wall and gate
- Electric driver air conditioning and heating devices
- Electric driver and co-driver window regulator and side mirrors
- Front airbag
- City bell
- Standard inner mirror overhead
- Heated exterior rear view mirrors
- Right hand side blind spot mirror
- Rotary sunshield
- 12 V plug and USB port
- Interior pack chrome





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INTERIOR STANDARD EQUIPMENT

INTERIOR MISCELLANEOUS SPECS

- Sound and thermal insulation of walls and roof
- 6 stop push bell buttons including 1 for the wheelchair user
- 1 stop request display
- 3 brake emergency hammers
- Yellow hand rails
- 1 powder fire extinguisher behind driver, 1 safety kit and 1 first aid kit
- Composite floor covered with Gerflor Tarabus or similar



INTERIOR LIGHTING

- Ambient passenger lighting with white LED strips for daytime (30 LUX), and blue at night (15 LUX)
- Original driver cab lighting overhead
- Passenger entrance door lighting



PASSENGER SALOON LIGHTING



THERMAL COMFORT

- Electric heating for the driver with preconditioning cabin comfort system
- Thermal heating system for passengers (bioethanol or B100 or HVO)
- Original driver cab electric air conditioning system





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OPTIONS

PASSENGER COMFORT

- Electric air conditioning system
- Electric heating system for passengers
- Hopper tilting windows
- USB ports for passengers



DRIVING AND SAFETY

- Reverse radar and camera coupled with the Renault R-Link pack
- Cruise control and max speed devices
- CCTV system
- Cyclist warning system
- Electronic tachygraph
- Electronic breathalyser sobriety test
- Heated rear window



OPERATIONAL SUPPORT (AVL) & PASSENGER INFORMATION SYSTEM

- Electric pre-installation
- Front destination sign and controller
- Side destination sign
- Rear destination sign
- Interior route display
- Passenger saloon TFT screen
- Passenger counting system
- Ticketing system



ADDITIONAL OPTIONS

- Lockable and removable coin drawer
- Driver lateral airbag
- Interior high and glazed driver door
- Seat fabric, hand rails and floor covering customization
- Van painting customization
- Total or partial covering





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**EXTENSIVE EUROPEAN
AFTER-SALES SERVICE**



**LARGE STOCK OF
SPARE PARTS**



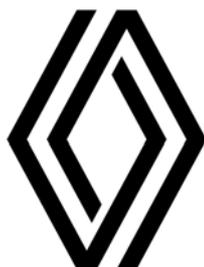
**MAINTENANCE
TRAINING CENTRE**

PVI manages the maintenance of the **OREOS M20** as the manufacturer and as the sole contact for clients who purchase the OREOS M20 product.

For maintenance, **PVI, part of the Renault group, relies on the Renault PRO+ maintenance network comprising more than 500 workshops over Europe.**

Renault PRO+ technicians take care of the maintenance related to the basic van.
For the specific maintenance of the minibus conversion, PVI relies on its best-in-class automotive equipment suppliers as well as on a team of specialized mobile technicians.

More than 500 After-Sales workshops in Europe



**RENAULT
PRO+**

