



# Flexibility is the key to success



**EcoFlex** – flexible climate control for buses

**EcoFlex:**

# Fully automatic modular climate control system with a full range of options.



EcoFlex is the brand new Driver A/C family.

The self-contained unit (EcoFlex 4E) consists of all components including

scroll compressor and brushless motor drive. You can also choose a model with just a condenser and compressor for a split system (EcoFlex 4ES). A third model (EcoFlex 6) is available which includes all components except the

compressor. This model can be used as a passenger A/C for minibuses.

All models are manufactured with extensive use of aluminium components and ABS covers, in order to keep the weight to a minimum. The cooling systems have been optimized to provide the maximum cooling performance with a minimal refrigerant charge.

The unit is of course protected by an attractive cover.



## Summary of advantages

- Low weight thanks to aluminium parts and ABS Cover
- Low refrigerant charge
- Improved performance, using high performance heat exchangers
- Less vibration, with a quiet scroll compressor
- Attractive design
- Modular system
- Easy to install

## EcoFlex 4E (Electrical)

This is the 24VDC complete, factory charged driver AC. Just install and connect to the electrical system and it is ready to deliver cold air. Comes with all components including reliable brushless motor drive, scroll compressor, evaporator, condenser and fans (see pages 4–5).

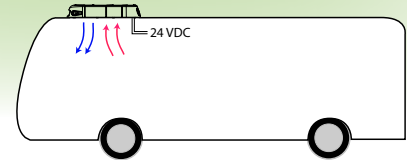
Can be used together with the air distributor module (optional, see page 7).

Mainly used as a driver A/C for citybuses and truck cabs etc.



**Main components:**

- Compressor
- Brushless motor
- Evaporator and blower
- Condenser and fan



## EcoFlex 4ES (Electrical Split)

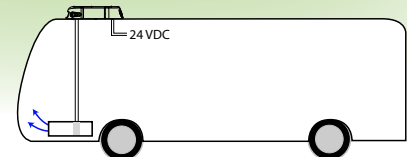
This is the model to choose if you want to integrate the evaporator in the defroster.

The EcoFlex 4ES includes reliable brushless motor drive and scroll compressor, condenser and condenser fan (see pages 4–5).



**Main components:**

- Compressor
- Brushless motor
- Condenser and fan



## EcoFlex 6

This model is the non-electric EcoFlex, ready to connect to the bus compressor. Including evaporator, condenser, fans, and all necessary components (see pages 4–5).

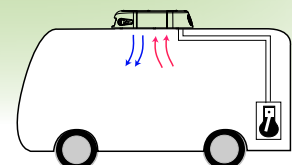
Can be used together with the air distributor module (optional, see page 7).

Mainly used as a passenger A/C in minibuses, special vehicles etc.



**Main components:**

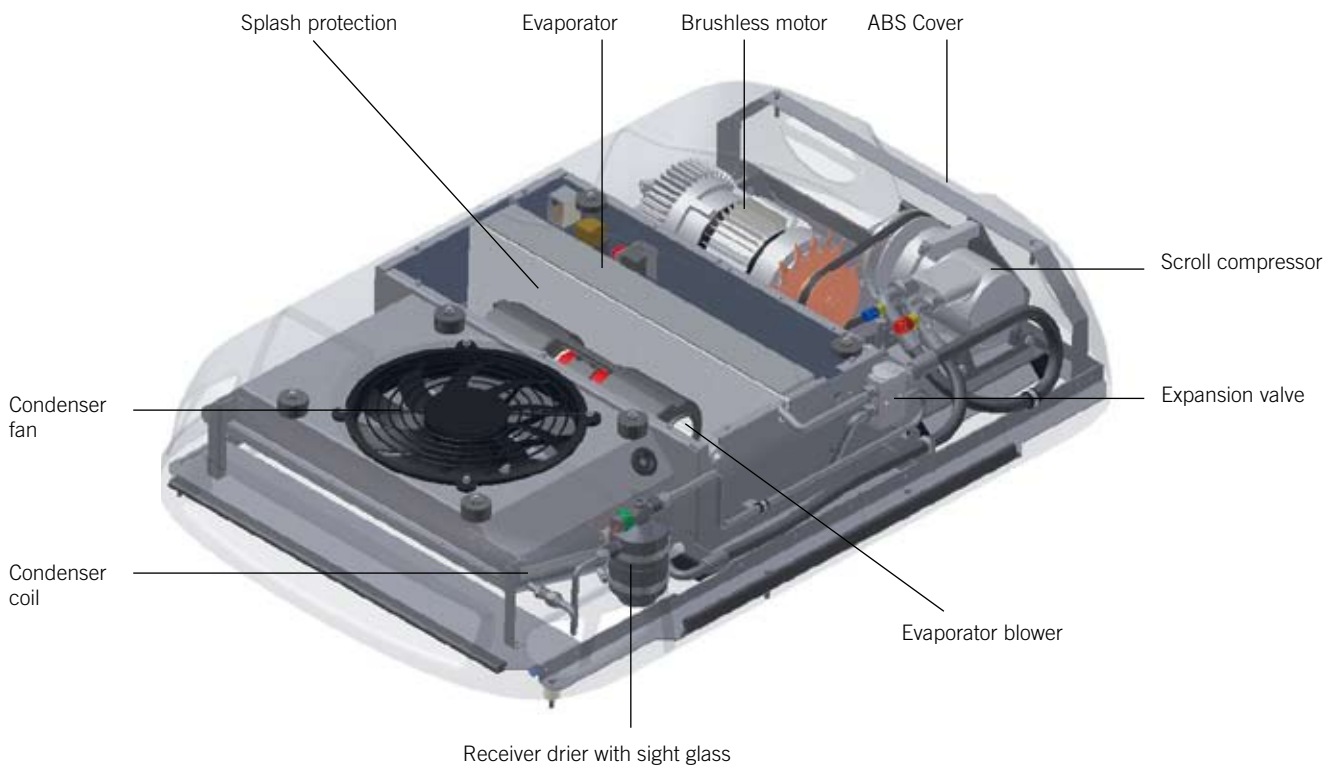
- Evaporator and blower
- Condenser and fan



# Overview of the components

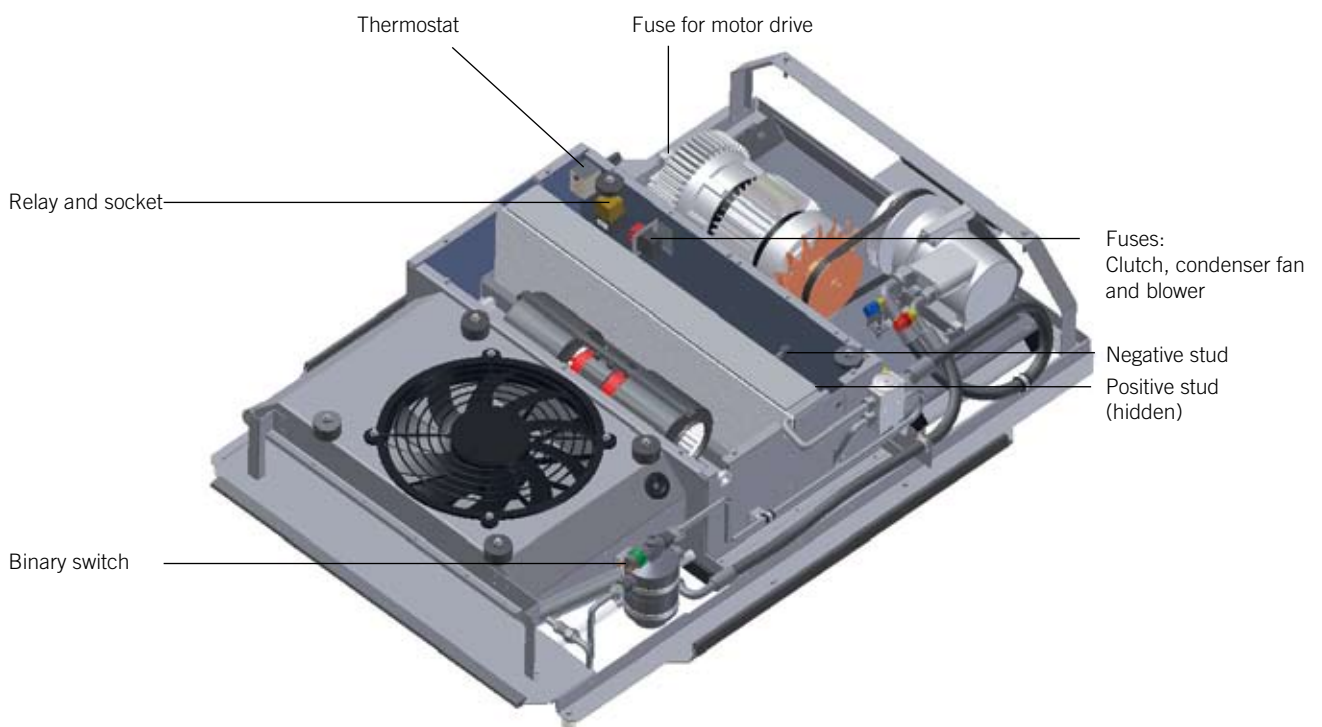
## EcoFlex 4E: Major components

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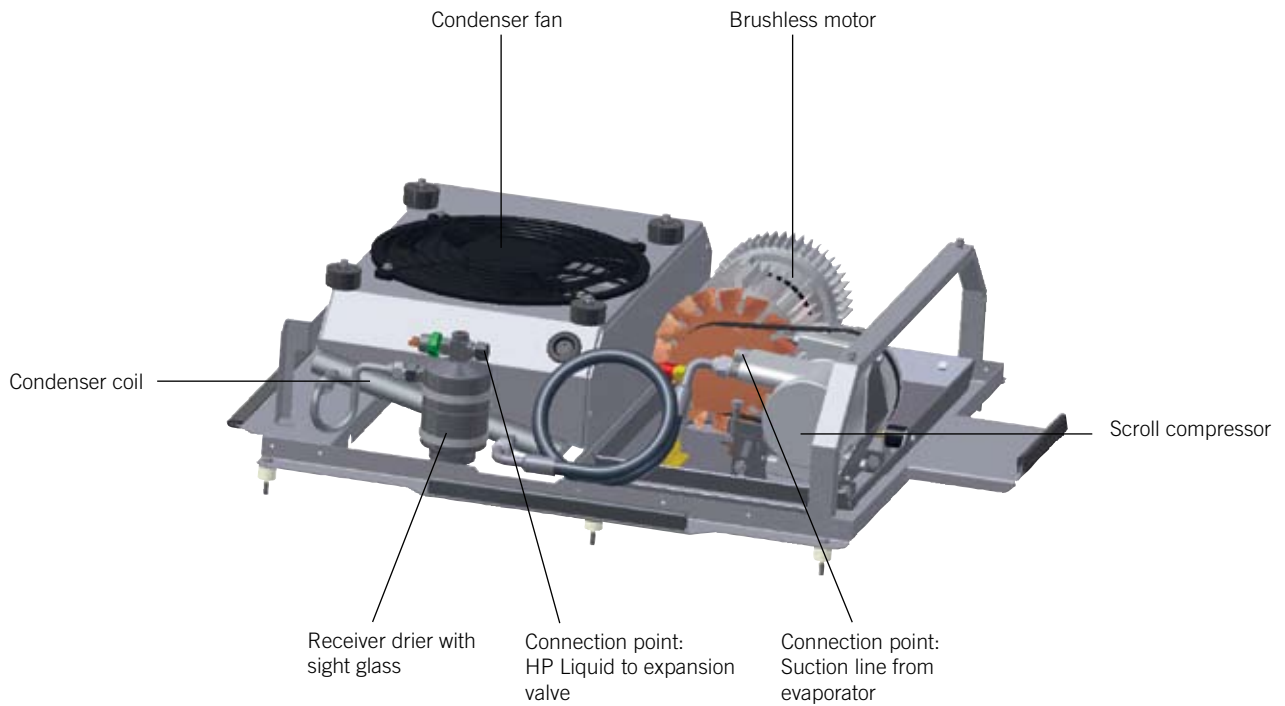
## EcoFlex 4E: Electrical components (cover removed)

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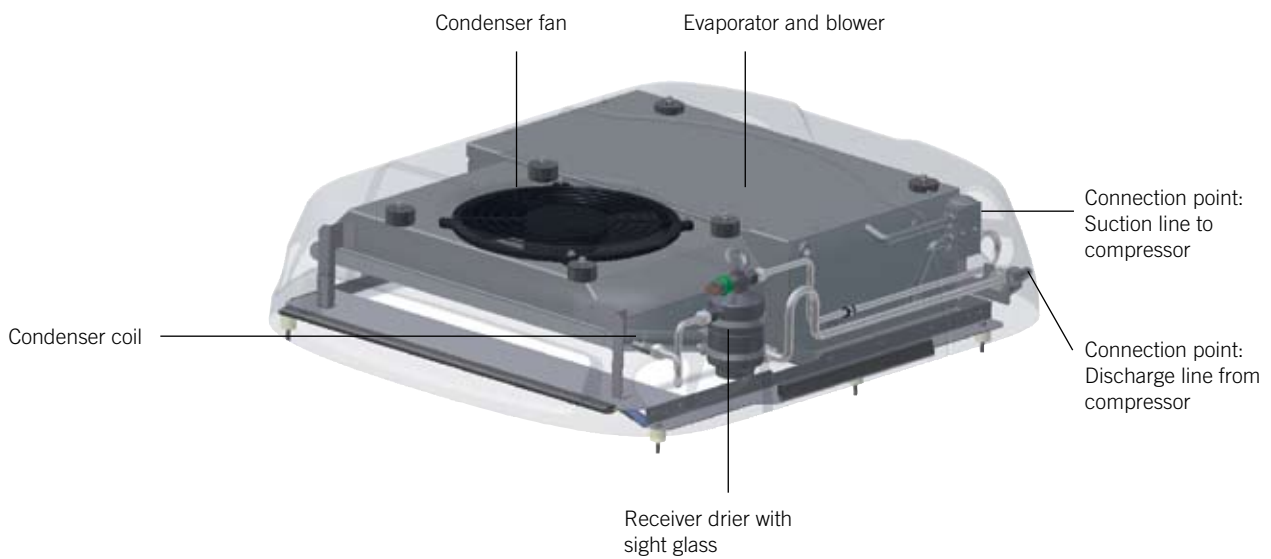
## EcoFlex 4ES: Connections and major components (cover removed)

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## EcoFlex 6: Connections and major components

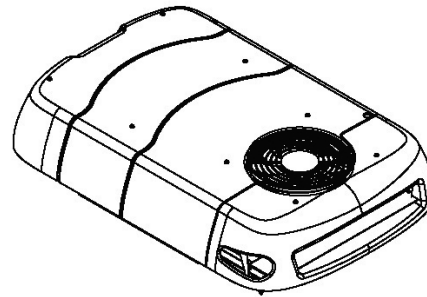
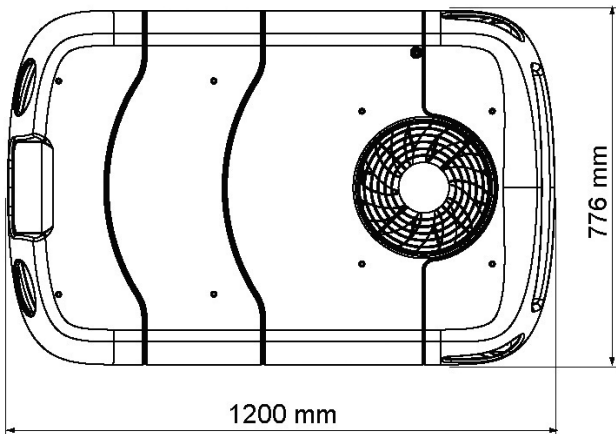
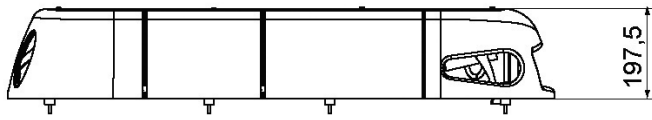
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# Dimensions

## EcoFlex 4E

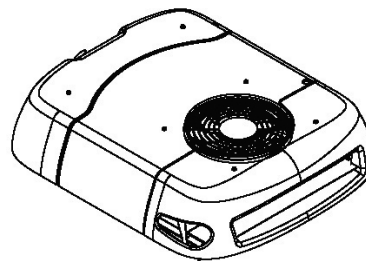
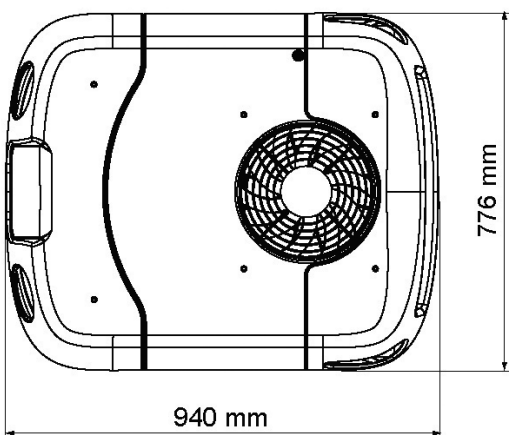
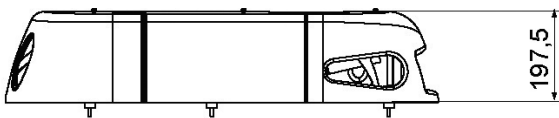
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Measurements in millimeters

## EcoFlex 4ES and EcoFlex 6

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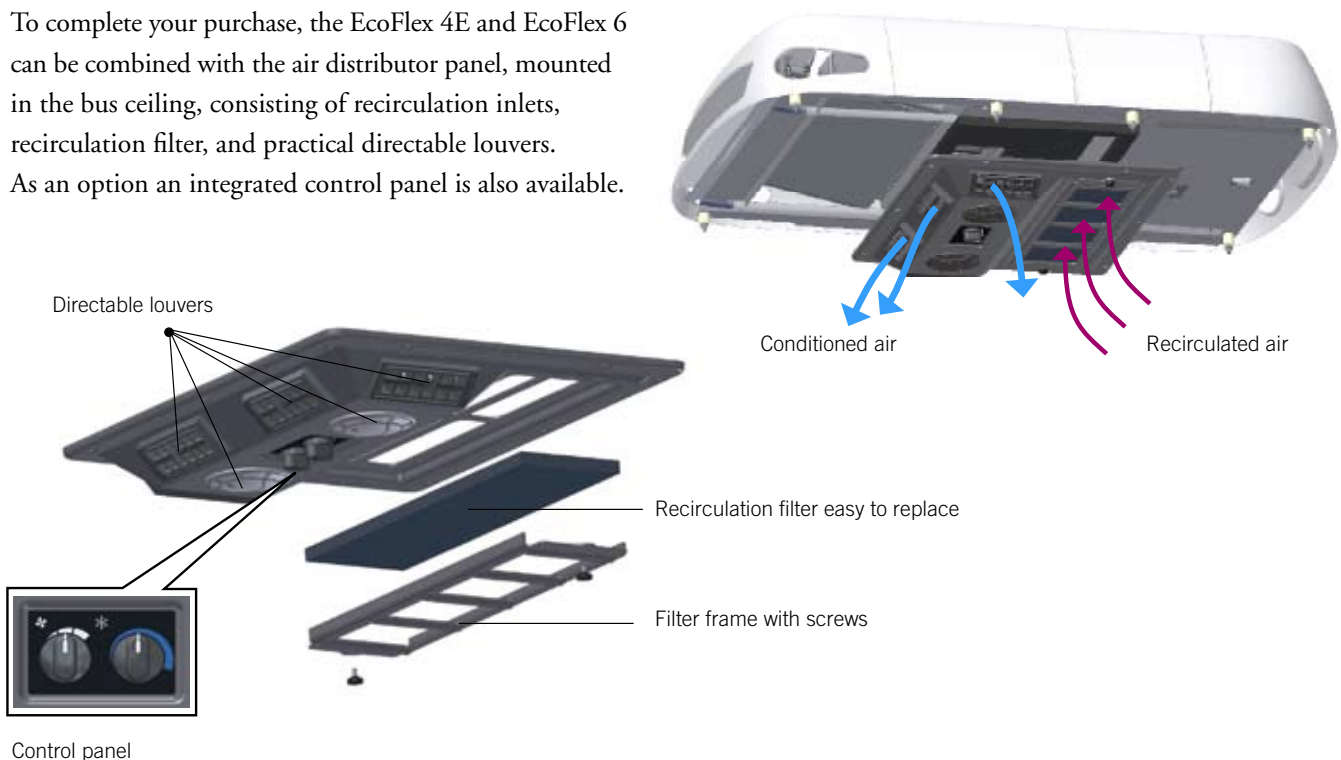
Measurements in millimeters

# Technical Specification

	EcoFlex 4E	EcoFlex 4ES	EcoFlex 6
Application	Driver AC (city buses)	Driver AC (city buses)	Minibuses, special veh. etc.
Type	Complete AC System	Compressor/Condenser	Condenser/Evaporator
Compressor type	Scroll	Scroll	-
Cooling capacity	3.8 kW	3,8 kW	5–6 kW
Voltage	24V	24V	12/24V
Heating capacity (low speed)	No	No	No
Fresh air (Yes/No)	No	Yes	No
Width	776 mm	776 mm	776 mm
Length	1200 mm	940 mm	940 mm
Height	190+20 mm	190+20 mm	190+20 mm
Air flow (free)	600 m <sup>3</sup> /h	Depends on application	600 m <sup>3</sup> /h
Current consumption, max	65 A	62 A	11A@27V 22A@13.5V
Refrigerant charge	750 g	Depends on application	Depends on application
Weight (total)	47 kg	38 kg	19 kg

## Optional Air Distributor

To complete your purchase, the EcoFlex 4E and EcoFlex 6 can be combined with the air distributor panel, mounted in the bus ceiling, consisting of recirculation inlets, recirculation filter, and practical directable louvers. As an option an integrated control panel is also available.



# Every passenger deserves the best possible vehicle climate with MCC products

Our target is to become the leading global HVAC provider to the commercial vehicle industry.

We provide exceptional performance in mobile climate control for OEM customers.



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