



EcoFlex 4

Fully flexible modular climate control system with a full range of options

EcoFlex AC product family has been enhanced to meet new demands in the global bus market. The self-contained unit (EcoFlex4E) consists of all components including variable speed scroll compressor and brushless blower and fan. Optional available are fresh air system, coolant or electrical PTC heater. 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 aluminum Components, Microchannel Heat Exchangers (MCHX) and attractive GFK covers to allow lowest possible weight. The cooling systems have been optimized to provide the maximum cooling performance with a minimal R134a refrigerant charge.



EcoFlex 4E



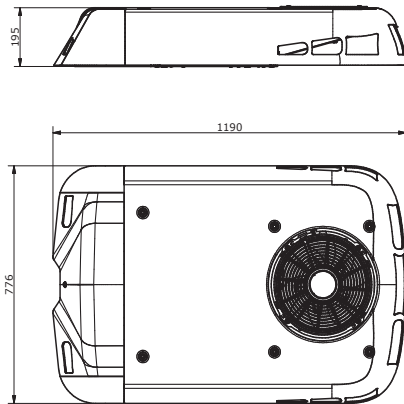
EcoFlex 4ES

Features

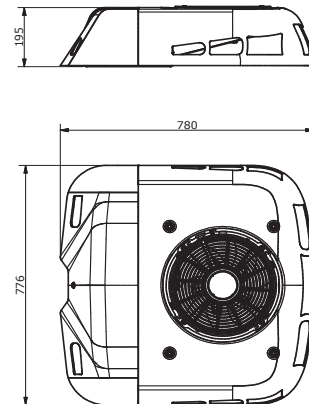
- Modular system with several options (Fresh air 20%, coolant heater, PTC Heater)
- Compact slim design, full aluminum refrigerant circuit, MCHX condenser
- Integrated variable scroll compressor 24VDC, condenser section designed for optimal airflow, high flexible control logic, low refrigerant charge
- Easy access to internal parts and components
- Installation “plug and play”, drain water outlet to the roof
- Long-life brushless blower & fan
- MVC controller with CAN interface

Benefits

- High flexibility for different applications. Can be used for moderate cooling of the passenger compartment (Complies with VDV standard 236/1)
- Low weight, environmentally friendly, modern appearance
- Better passenger comfort, high efficiency, silent operation. Allows the best performance in high ambient condition
- Best serviceability. Saves time for seasonal maintenance or another service
- Short installation time. No drain water hose routing needed in the bus
- High reliability and efficiency, up to 40.000 hours life cycle
- Customized controls according to customer specifications



EcoFlex 4E



EcoFlex 4ES

Technical Data

	EcoFlex 4E	EcoFlex 4ES	EcoFlex 6
Application	DC Powered AC	DC Powered AC	Conventional AC
Type	Complete AC System	Complete AC System	Condenser / Evaporator
Compressor type	Semi hermetic scroll variable speed	Semi hermetic scroll variable speed	Depends on application
Cooling capacity MAX ⁽¹⁾	4,0 kW	4,0 kW	6,0 kW
Cooling capacity ARI ⁽²⁾	3,0 kW	3,0 kW	4,5 kW
Voltage	28 VDC	28 VDC	28 VDC
Heating capacity (Q80)*	6,0 kW	Depends on defroster	6,0 kW
Heating capacity electric*	max. 1,5 kW (28VDC)	Depends on defroster	N/A
Fresh air (Yes/No)*	Yes (with flap)	Depends on defroster	Yes (with flap)
Width x Length x Height	776 mm x 1190 mm x 195 mm	776 mm x 780 mm x 195 mm	776 mm x 780 mm x 195 mm
Air flow (free blowing)	800 m ³ /h	Depends on application	800 m ³ /h
Current draw (Max)	65 A	55 A	22 A
Current draw (Nom)	45 A	39 A	14 A
Refrigerant charge	750 g (R134a)	Depends on application (R134a)	Depends on application (R134a)
Weight	37 kg	27 kg	19 kg

*Optional

(1) Maximum cooling condition (MAX) ti 40 °C/ ta 35 °C/ 50%

(2) Nominal cooling condition (ARI) ti 27 °C/ ta 35°C/ 50%

