

ALL-ELECTRIC ROOFTOP AIR CONDITIONING UNIT FOR ELECTRO- AND HYBRID BUSES

# REVO<sup>®</sup>-E GLOBAL



## STRONG LIGHTWEIGHT ELECTRIFIES THE WORLD

The REVO<sup>®</sup>-E Global is our latest global air conditioning development for buses with alternative powertrains, designed specifically to meet the demands of global markets. Particular emphasis has been placed on lightweight construction, performance and ease of installation.

In addition to heat pump technology, customers also have the option of PTC heating and battery cooling. To enhance riders' experience, the system cools and heats the interior of the electric vehicle efficiently and with low energy consumption. The system is a "plug & play" unit that can even be delivered pre-filled to the customer.

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## HIGHLIGHTS



### Low life-cycle costs

- Low consumption of energy due to the low unit weight
- Short dimensions allow space for battery system on the roof
- Long duration due to brushless EC blowers
- Nearly maintenance-free



### Environmentally friendly

- Safety against leakage due to the hermetically sealed refrigerant circuit
- Noise emissions optimized



### Comfort

- Cooling capacity from 21 up to 40 kW
- Heating with heat pump or PTC heater possible as an option
- Tropical version: High cut off temperature of 55 °C



### Range of driving

- Range of application: -20 °C to +55 °C
- Maximized range due to the low unit weight and highly efficient heat pump up to -10 °C (R407C)
- Optimized power consumption
- Variable regulation of the PTC heater
- Automatic de-icing function on demand, for energy saving heat pump operation at cold outside temperatures < 5 °C
- Flexibel and efficient power output due to infinitely variable compressor and fans

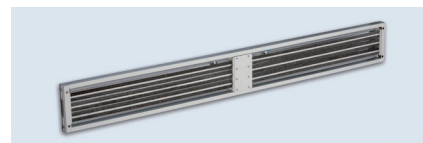


### Battery Cooling function and more

- Integrated compressor, no installation of refrigerant lines necessary
- Integrated plate heat exchanger for BTM
- Designed for R407C
- Design for R134a on demand

## PTC HEATER

The new high-voltage PTC heaters complement our heating systems. They are intended for use whenever there is simply an additional need for heating. In operation the PTC heaters can be infinitely adjusted by means of an electronic control unit developed by Valeo.



## TECHNISCHE DATEN

|   | REVO®-E Global 250  | REVO®-E Global 350  | REVO®-E Global 400  | REVO®-E Global 450  | REVO®-E Global 500  |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|
| Max. cooling capacity (kW)              | 21                  | 26                  | 33                  | 35                  | 40                  |
| Max. cooling / heat pump capacity (kW)  | 21 / 12             | 26 / 16             | 30 / 19             | 32 / 21             | 37 / 24             |
| Optional PTC heater (kW)                | 0-10                | 0-15                | 0-20                | 0-20                | 0-20                |
| HV range                                | 450VDC to 850VDC    | 450VDC to 850VDC    | 450VDC to 850VDC    | 450VDC to 850VDC    | 450VDC to 850VDC    |
| Refrigerant                             | R407c               | R407c               | R407c               | R407c               | R407c               |
| Fresh air (optional)                    | 20 %                | 20 %                | 20 %                | 20 %                | 20 %                |
| Unit weight (kg)                        | 180                 | 210                 | 215                 | 240                 | 230                 |
| with heat pump                          | 250                 | 260                 | 280                 | 270                 | 290                 |
| Cut-off temperature (°C)                | 50                  | 50                  | 50                  | 55                  | 55                  |
| Dimensions (L x W x H in mm)            | 1,960 x 1,900 x 295 | 2,410 x 1,900 x 295 | 3,100 x 1,900 x 295 | 3,360 x 1,900 x 295 | 3,360 x 1,900 x 295 |
| Battery cooling or Frontbox connection* | optional            | optional            | optional            | optional            | optional            |
| Fans / Blowers                          | 2 / 4               | 3 / 4               | 5 / 6               | 5 / 8               | 5 / 8               |
|   |                     | SOP Q4/2024         |                     |                     | SOP Q2/2024         |

\* max 7 / 10kW - Battery cooling during driving / overnight charging  
All with integrated inverter 24V / 380V DC, customized version without DC/DC converter possible