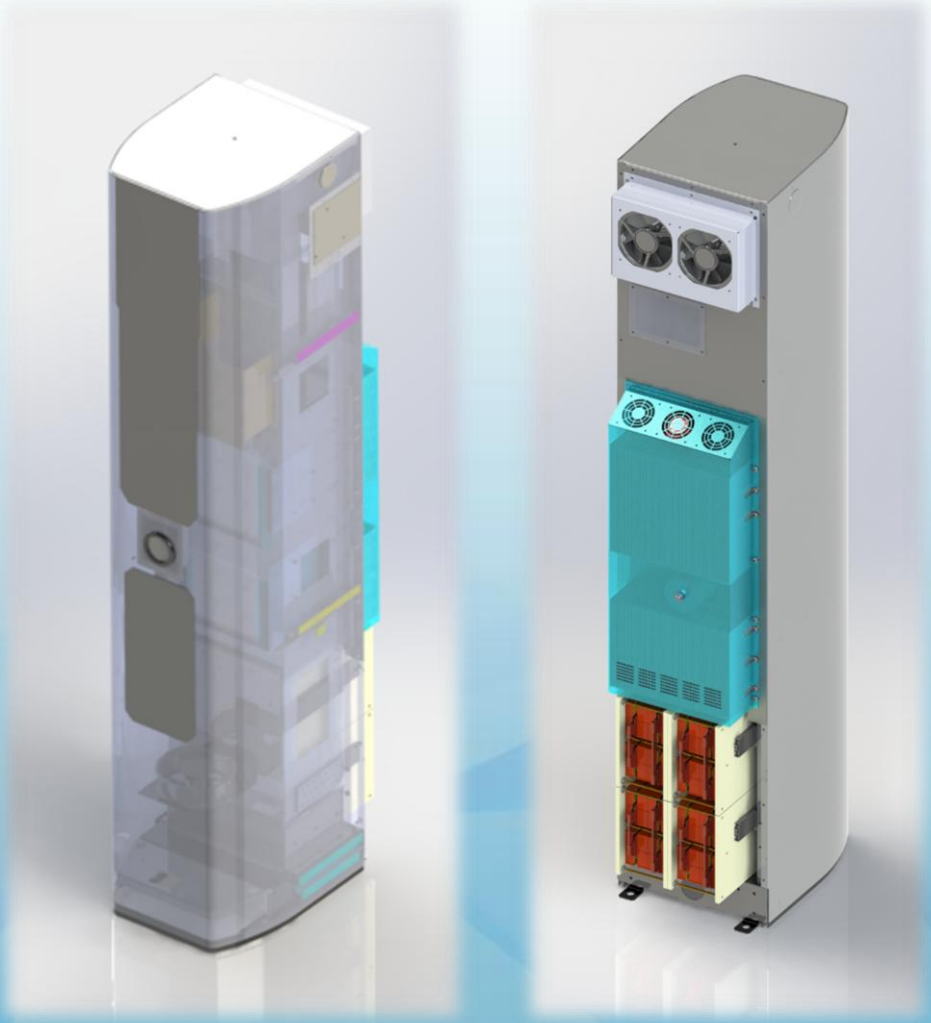
# Charging station



Front and back view of Charging station

Dimensions:

Height – 1840mm

Width – 390mm

Depth – 560mm

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The charging station contains  the following components:

- Main controller of the station, which enables:
  - Controlled charging of the EV
  - Communication and guidance of the user through the charging process
- Identifiable lighting of the station (LED Indicator) which enables the user to easily identify the status of the station
- Energy meters
- Electrical protection (main breaker, overcurrent and voltage…)
- Charging coil
- Temperature and humidity sensor
- Communication via GSM network/ WI-FI

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The station should be designed in a way to enable:

- Simplicity of use
- Managing of charging process
- In case of faults of charging process, the station status automatically change into NOT AVAILABLE with appropriate display
- Resistance to bad weather
- Easy access for maintenance
- Configuration interface of the charging station enable remote or local parameterization
- Transmission of charging data (user ID, supplier ID, duration of charge and energy meter)
- Monitoring of temperature inside the charging station

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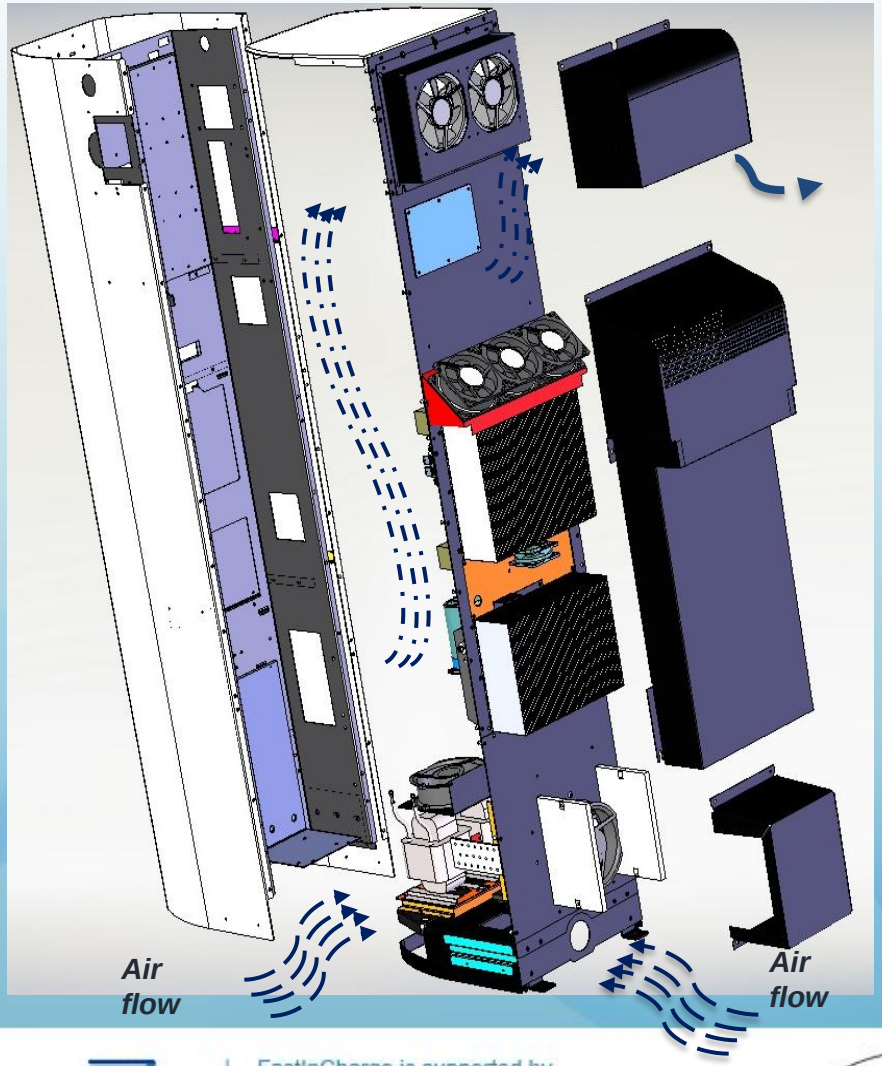
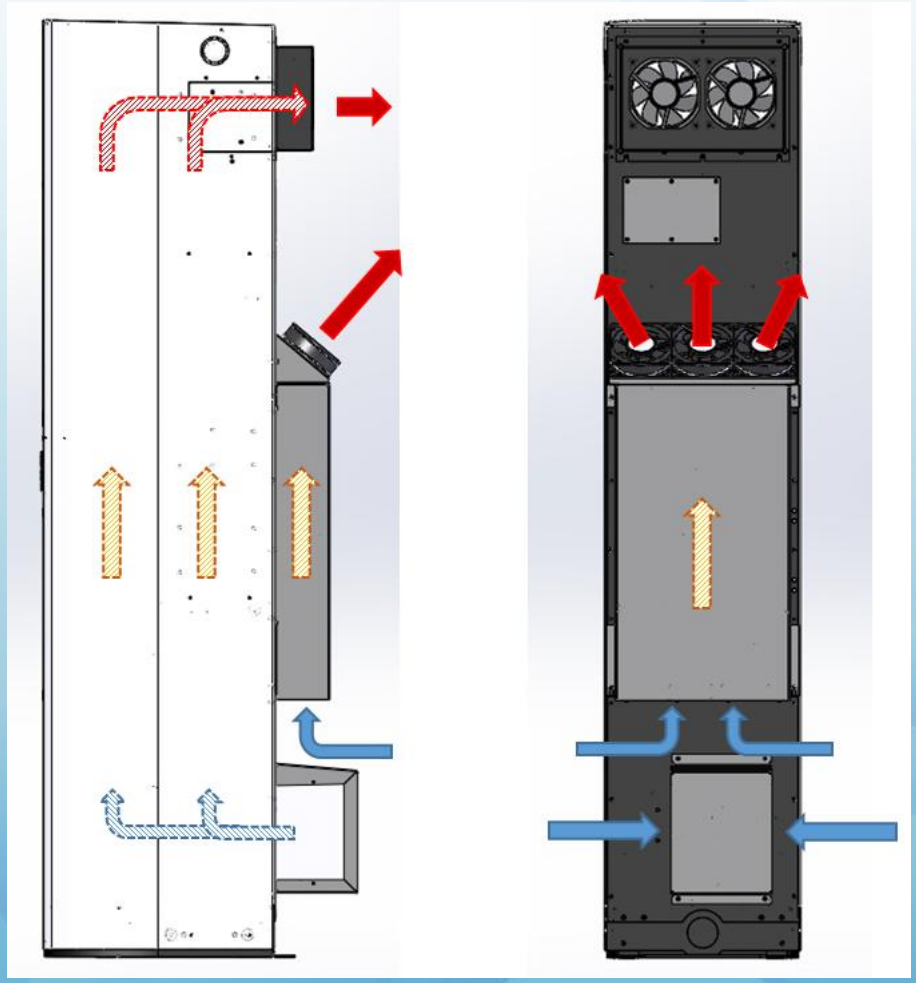
# Overview the cooling system



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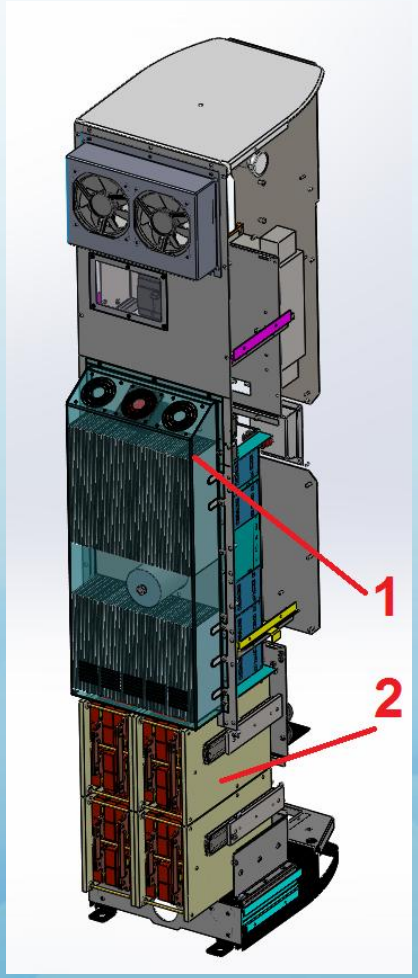
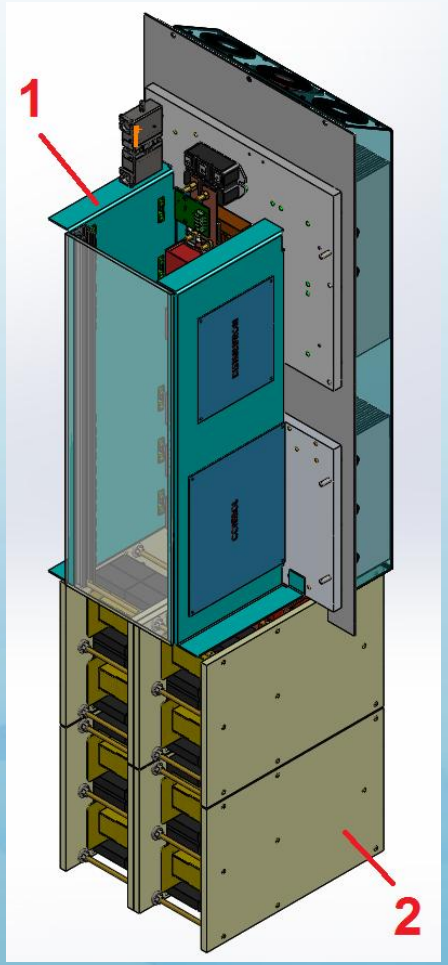
# Charging Station - Modules designed from TUG




Modules, designed from TUG:

1. Inverter Module
2. Compensation Module

Main Goals:

Modular design, Easy maintenance, High power density factor

Existing problems:

The construction of present Charging station (DBT) is slightly modified

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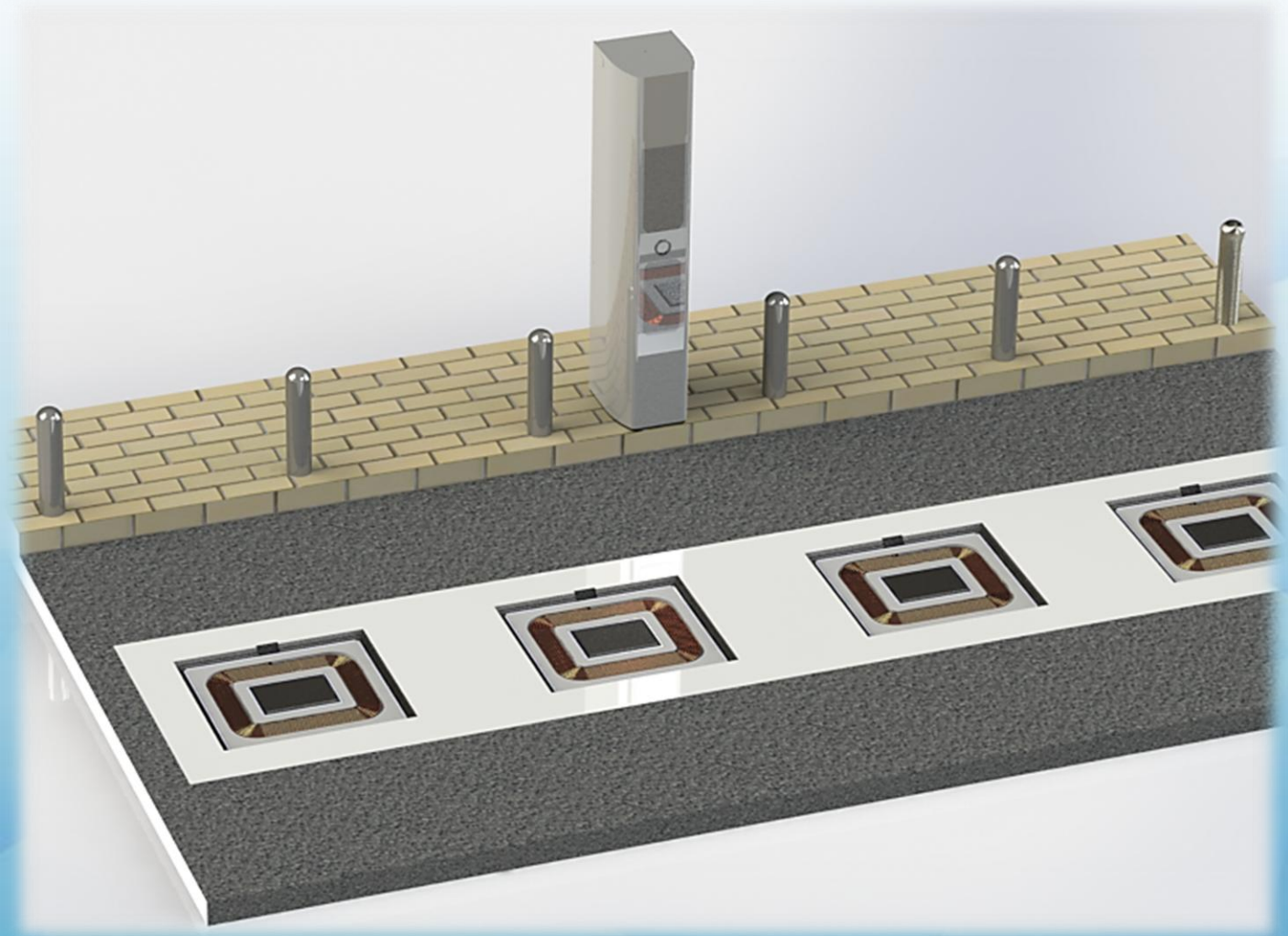
# “On route” charging infrastructure



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