



HVAC PLATFORM FOR METRO APPLICATIONS

Ensuring the highest standards of air quality and comfort levels for passengers has always been a priority for Merak.

Customer benefits

- Flexible design, easily adaptable to meet market requirements and different climatic conditions
- Adaptable to meet the typically restricted installation envelopes of metro cars
- Low profile of less than 300 mm in height
- Low weight, even with a robust stainless steel frame
- Fresh air inlet integrated into the HVAC unit, avoiding the need for air intake ducting on the metro car
- Ability to meet different interface requirements
- Easy to maintain

OPTIONAL TECHNICAL FEATURES

- Adaptable cover shape and water sealing frame to fit different car roof profiles
- Various configurations available
- Cooling capacity up to 41 kW
- Supply air up to 3700 m³/h
- Variable fresh air flow based on CO₂ level/occupancy
- Filter clogging detector



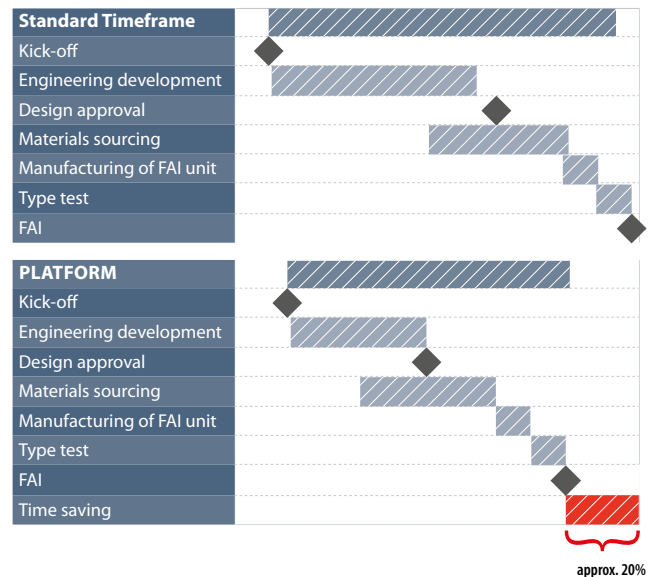
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Especially for metro applications, where there are typically high levels of passenger occupancy, optimized performance regarding air quality and comfort are vital. In addition, metro HVAC units must also be designed to be as compact as possible, due to often limited space envelopes available in low-profile tunnels and where reduced weight is required.



In order to meet these challenging requirements, whilst ensuring competitive lead times and prices, Merak has developed an HVAC platform for metro applications, through which we can offer standardized solutions to our customers that enable us to minimize the design period whilst increasing reliability. The metro HVAC platform has already been successfully adapted to a range of climatic conditions and customer requirements spanning from North and South America to Asia Pacific and Europe.



Lead time comparison:
new design/standard
project and platform design

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