

HVAC and thermal comfort

Applus IDIADA provides full range support in the development of complete heating, ventilation and air conditioning systems.



DESCRIPTION

This full engineering support covers all the project HVAC development phases, starting from the initial concept, design and integration phases and finalizing with the validation phase on CWT or on field trips

Our field of expertise includes thermal comfort assessment with testing and virtual tools, based on equivalent temperature parameter. Applus IDIADA as expert in this area, belongs also to the ISO working group for the development of thermal comfort standards

Our main capabilities include:

- System sizing by 1D tools
- CAD design and system integration
- System development

Cabin ventilation analysis

Heating and AC development

Thermal regulation for logic control

Thermal comfort assessment

All activities supported by 3D tools (i.e. StarCCM +, fluent, radtherm)