

IDA Road Tunnel

Modern road tunnel systems simulation software



EQUA.

IDA Road Tunnel

A new generation road tunnel ventilation and fire simulation software

IDA Road Tunnel is an easy-to-use tool for predicting temperature and other environmental variables in road tunnel systems under normal and fire conditions.



Road tunnel simulations

IDA Road Tunnel effectively handles air flows in road tunnels and related pollution concentration issues due to vehicle emissions. Realistic traffic models include bi-directional, multi-lane as well as dynamically congested road traffic. Both normal operation and tunnel fire scenarios can be simulated. Ventilation may be longitudinal or transversal, with air supply and exhaust terminal devices distributed along the tunnel.

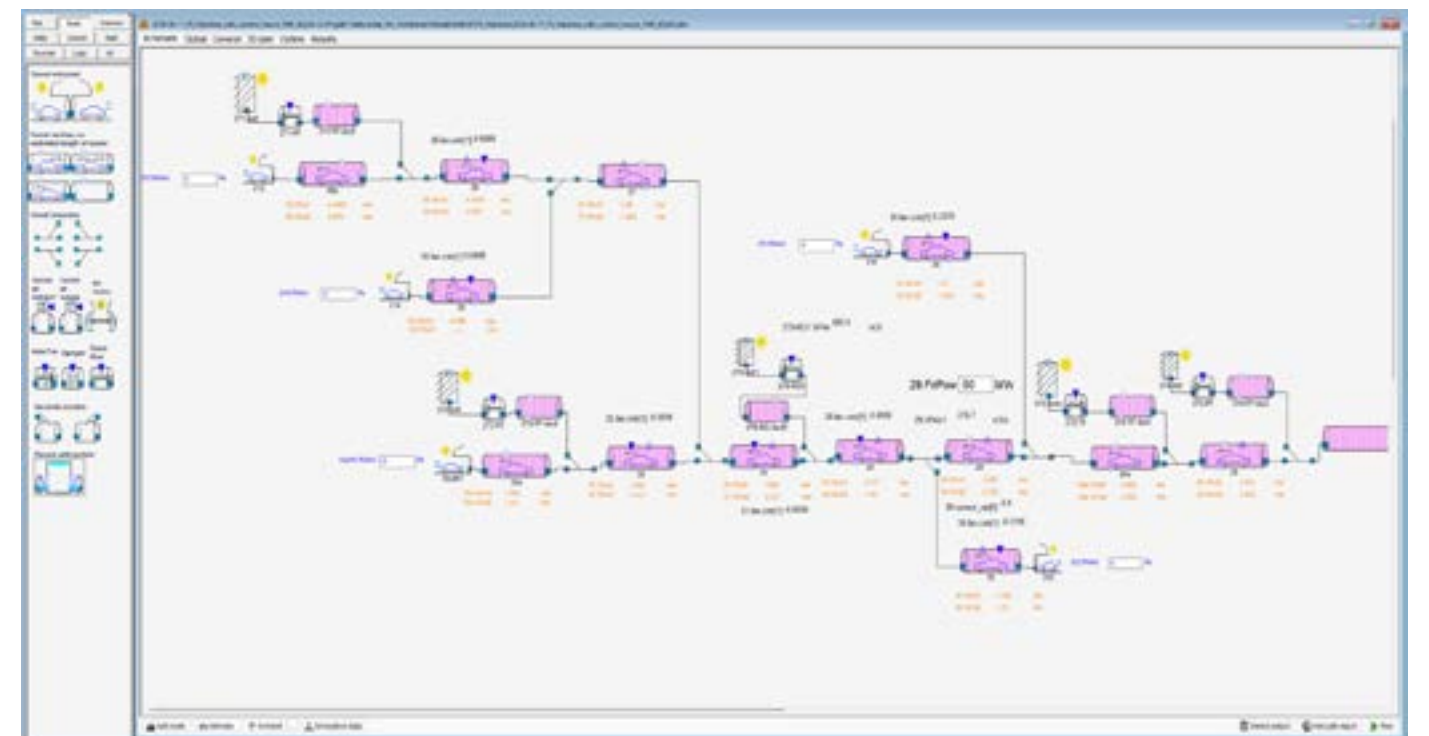
Accurate computation of ventilation capacity requirements can help prevent an over-dimensioning of equipment such as jet fans and air-exhaust stations. A wide selection of feedback control components allows for an optimization of the ventilation system operation concept, which can significantly contribute to reducing costs in the operation phase.

IDA Road Tunnel is a vital tool used successfully in road tunnel projects around the world.



Examples of IDA Road Tunnel capabilities:

- Fire studies and smoke ventilation design.
- Finding extreme temperature conditions in tunnels.
- Jet fan sizing, placement, and control.
- Computation of boundary conditions for more detailed 3D CFD studies of smoke and air movements.
- Air quality in tunnels with combustion driven vehicles.





EQUA Simulation AB
Råsundavägen 100
169 57 Solna
Sweden

Phone: +46 8 546 20 110
Email: info@equa.se
Web: www.idatunnel.com

EQUA.
SIMULATION TECHNOLOGY GROUP