We will help optimize your mine’s safety, efficiency, and lifespan through customized ventilation systems for controlling airflow, pressure, and climate while minimizing hazards. Our experienced multidisciplinary teams have in-depth knowledge of the theoretical and practical aspects of heat transfer as well as the fire, air cooling, and ventilation modeling required to establish safe and efficient underground ventilation systems. We will design a ventilation system that meets the specific requirements of your existing or proposed subsurface facility.

Modeling and Design

- Ventilation surveys
- Conceptual and engineering studies of subsurface environments
- Short- and long-term ventilation planning and modeling
- Ventilation system design from concept to construction

Operational Audits

- Troubleshooting of ventilation and climate-related problems
- System risk assessment and fire modeling
- Operational optimization
- Emission reduction strategies
- Diesel particulate matter sampling and analysis

Software

- Ventilation and climatic software developed in house
- VNet™, a re-implementation of VnetPC™ ventilation network analysis program
- MINEFIRE™ and CLIMSIM™ fire and climate modeling software

Training

- Comprehensive programs for mining and ventilation engineers and technicians
- Courses on ventilation theory and practices as well as thermal and fire modeling
- Software training tailored to specific client sites

Mine Ventilation Services – a business unit of srk consulting
Mine ventilation software

Before becoming a business unit of SRK, MVS developed its own range of ventilation and climatic software including VNet. This ventilation network simulator aids the planning and design of underground ventilation systems.

VNet™ Features

- Ventilation models can be created and edited in a fully 3D animated environment
- Enhanced views allow efficient model parameter and simulation results filtering
- Superior .DXF import and reference capabilities streamline model creation
- Resource attachments are capable of displaying mine plans, ore bodies, or topographic maps
- Developed from the only verified and validated (DOE; IEEE Std. 1012-2012) subsurface ventilation simulator on the market
- Free technical support from our experienced engineering staff
- Competitive pricing with no annual maintenance fees

Key ventilation specialists

KEITH WALLACE
Practice Leader, Principal Mine Ventilation Engineer
SRK Clovis

- Expert review of system design
- Mine ventilation economics
- Design and planning of underground ventilation systems
- Psychrometric analyses and dust and gas control
- Ventilation/climatic surveys and network analysis

BRIAN PROSSER
Principal Mine Ventilation Engineer, PE
SRK Clovis

- Ventilation/climatic surveys and network analysis
- Design and planning of underground ventilation systems
- Psychrometric analyses
- Fire modeling, analysis, and thermal design for hard rock and coal mines

JAKE JODOUIN
Principal Consultant, Mine Ventilation
SRK Sudbury

- Mine ventilation system design, evaluation, and operational support
- Numerical model, climatic, fire, and diesel particulate simulation
- Mine Ventilation Economics
- Ventilation/climatic surveys and network analysis