



**SVAIR<sup>GE</sup>**  
1D / 2D / 3D FINITE ELEMENT  
PORE-AIR FLOW MODELING



**SOILVISION**  
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<b>FEATURE COMPARISON</b>				
<b>PRODUCT VERSION</b>	<b>STUDENT</b>	<b>CLASSROOM</b>	<b>STANDARD</b>	<b>PRO</b>
<b>Feature</b>				
Verification, Tutorial, and Example Manuals with Corresponding Models Provided	Yes	Yes	Yes	Yes
Create/Edit Models	Yes	Yes	Yes	Yes
CAD Windows Interface	Yes	Yes	Yes	Yes
Integrated Help System	Yes	Yes	Yes	Yes
Batch Analysis of Groups of Models	Yes	Yes	Yes	Yes
Windows 7, 8 and 10 Compatible	Yes	Yes	Yes	Yes
Multi-Core CPUs, Multi-Threading & 64 bit Environments Supported	Yes	Yes	Yes	Yes
Licensed for Engineering Consulting Use (Commercial Licenses Only)			Yes	Yes
<b>Geometry</b>				
Number of Regions	10	10	Unlimited	Unlimited
Number of Materials	3	3	Unlimited	Unlimited
Number of 3D Surfaces	3	3	Unlimited	Unlimited
Finite Element Cells	Limited*	Limited*	Unlimited	Unlimited
Import Regions from AutoCAD™ DXF Files		Yes	Yes	Yes
Import of Shape Files (SHP)		Yes	Yes	Yes
Import of ESRI ASCII Grid Files		Yes	Yes	Yes
Pinch Out Surfaces (3D)	Yes	Yes	Yes	Yes
Slice 3D Models to 2D Cross Section	Yes	Yes	Yes	Yes
<b>Coordinate Systems</b>				
1D Analysis	Yes	Yes	Yes	Yes
2D Analysis	Yes	Yes	Yes	Yes
3D Analysis	Yes	Yes	Yes	Yes
Axisymmetric Analysis		Yes	Yes	Yes
Plan View		Yes	Yes	Yes
Anisotropy		Yes	Yes	Yes
<b>Temporal</b>				
Steady-State	Yes	Yes	Yes	Yes
Transient		Yes	Yes	Yes
<b>Initial Conditions</b>				
Other SVAIR™ Analysis	Yes	Yes	Yes	Yes
Constant/Equation	Yes	Yes	Yes	Yes
Assign Initial Conditions by Region	Yes	Yes	Yes	Yes
<b>Application Types</b>				
Vapor Extraction	Yes	Yes	Yes	Yes
Air Intrusion	Yes	Yes	Yes	Yes
<b>Mesh</b>				
Fully-Automatic Generation	Yes	Yes	Yes	Yes
Fully-Automatic Mesh Refinement	Yes	Yes	Yes	Yes
<b>Equation Solvers</b>				
Galerkin Finite Element Method	Yes	Yes	Yes	Yes
Parallel Processor Support	Yes	Yes	Yes	Yes
<b>Full coupling</b>				
Water				Yes
Thermal Convection				Yes
3 way Air / Water / Thermal				Yes
<b>Material Property Functions</b>				
Air Conductivity Function	Yes	Yes	Yes	Yes
Volumetric Air Content Function	Yes	Yes	Yes	Yes

\* Student editions are limited to 100 cells in 1D, 400 cells in 2D and 1200 cells in 3D.