



**INTEGRATED
ENVIRONMENTAL
SOLUTIONS**

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HVAC Package

The IES HVAC package includes all of the tools an HVAC engineer needs to produce accurate and detailed building analysis. The package includes the following VE modules: ModelIT, ApacheHVAC, ApacheLoads, ApacheSim, MacroFlo, ApacheHVAC, RadianceIES and SunCast.

- › Our tools are approved for use with DGNB, LEED, BREEAM, and other voluntary rating schemes
 - › Comply with EN ISO 13790/13791 (software validation as required by EN 15625) and ASHRAE Standard 140
 - › Optional, specialised VE-Navigators are available to assist with the accreditation process
- Contact sales@iesve.com to find out more...



IES VIRTUAL ENVIRONMENT
HVAC Package

SECTOR
SOFTWARE

DATE
NOVEMBER 2012

COUNTRY
EUROPE



HVAC Package



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ApacheHVAC uses a flexible schematic component-based approach that enables you to quickly assemble HVAC plant and control systems either from scratch or from a pre-defined library of auto sizeable systems. Dynamically integrated with our thermal analysis tool, ApacheSim, our HVAC tools enable a building-integrated approach where the HVAC system and building are assessed as a whole; allowing all gains/losses, heat transfer and thermal mass in the building to be accounted for alongside system performance.

Undertake the following building performance analysis capabilities:

- > Import 3D model data from gbXML, IFC or dxf files. Direct connections to SketchUp and Revit with specialised plugins.
- > Calculate Heating and Cooling Loads (Static calculations using ASHRAE Heat Balance Method)
- > Analyse data detailing layer-by-layer thermo-physical properties of building elements
- > Obtain comprehensive data on glazing systems including angle-dependant transmissivity and absorptivity
- > Natural ventilation, mechanical ventilation and infiltration
- > Powerful facilities for assigning and editing time-varying room data such as plant, casual gains and air exchanges
- > Plant efficiency and fuel characteristics
- > User controlled time steps down to 1 minute
- > Idealised or detailed HVAC plant modeling
- > Work from an extensive database of global weather
- > Advanced Tariff Analysis feature allows complex utility tariffs such as varying Demand Side Management to be quickly set for easy comparison
- > Control solar gains taking into account the sun's path and solar penetration
- > Assess the shading/right to light impact of surrounding buildings and terrain
- > Test internal and external solar shading devices

Year 1 Rental = €2700

Year 2 Price = €3000

*Special offer to rent before you buy!

Module	Description	Standalone License	Standalone Rolling License
ModelIT	VE-Pro module for 3D geometry creation, data assignment and import functions	€250	€600
ApacheLoads	Heat loss/gain calculations	€350	€850
ApacheSim	Fast, accurate dynamic thermal simulation for energy/carbon modelling and much more...	€850	€2000
MacroFlo	Bulk airflow analysis for passive/ hybrid ventilation system design and simulation	€350	€850
ApacheHVAC	Effective modelling of conventional/ advanced HVAC systems, operation and control	€400	€1000
RadianceIES	Sophisticated 3D simulation of light levels	€700	€1700
SunCast	Advanced 3D solar analysis for a building and its site; visual, graphical and numerical outputs	€700	€1700
List Price		€3600	€8700
Discounted Offer		€2700	€3000

First Year: Pay for Annual (Rental) license type

Second Year: Transition to Rolling (Permanent) license type. Use your investment from Year 1 rental (€2700) and subtract it from the Rolling (Permanent) License price cost. You essentially get Year 1 for free!

Third Year: Pay the 15% maintenance fee on the list price of the software.

Fourth Year: (and every year thereafter): Pay the 15% maintenance fee on the list price of the software.

For a 10% fee, you purchase your software with quarterly payments.



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