

Trane is here to help!



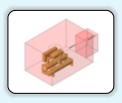
For more than 50 years Trane has been developing software to help design, build and maintain better buildings.













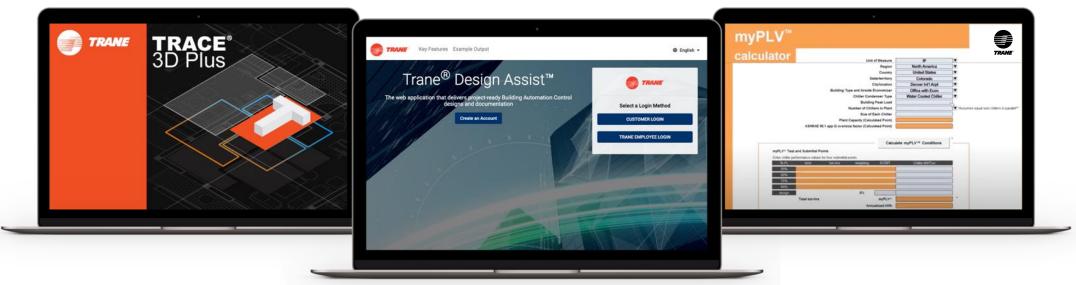








Today we will be focusing on three...

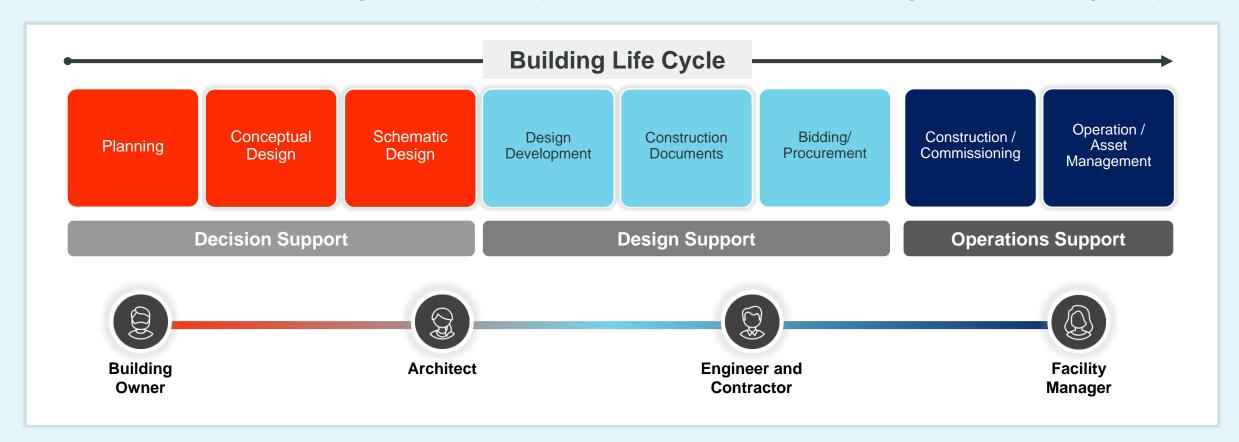




Trane tools improve productivity!



TRACE® 3D Plus, Trane® Design Assist™ and myPLV™ can help within multiple stages of the building life cycle!



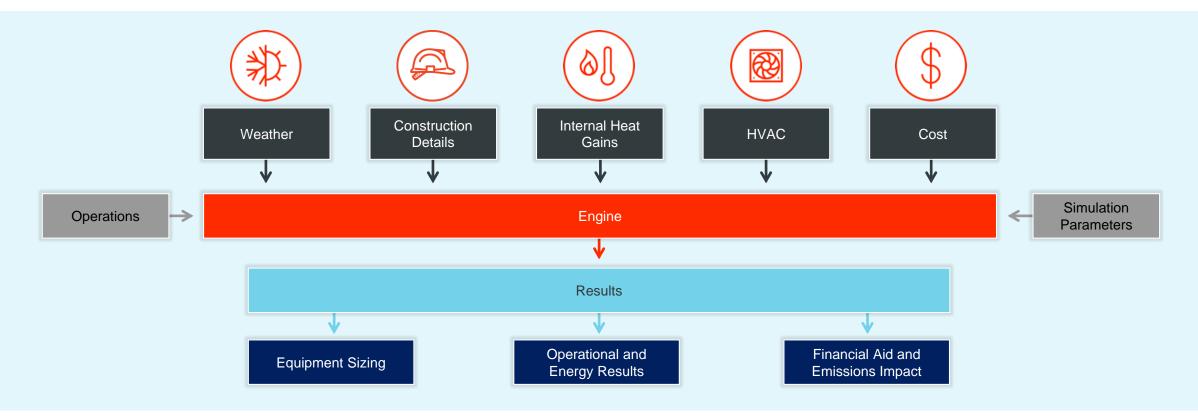




What is TRACE® 3D Plus?



- Trane Air Conditioning Economics
- Virtual physics-based replica of a building using EnergyPlus
- Subscription based platform including support



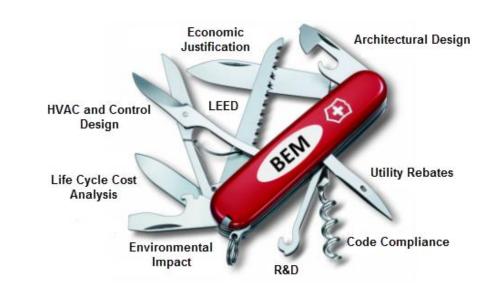


Where Can TRACE® 3D Plus Help?



- Quick early/conceptual stage analysis
- Accurate equipment sizing
- Code compliance or building ratings
- Energy, life cycle cost or utility optimization/rebates
- Carbon footprint, emissions and renewal energy analysis
- Monetization of retrofit/renovations



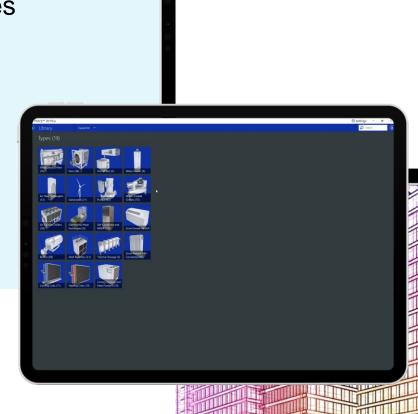




Conceptual or Schematic Design – Efficiency

TRANE

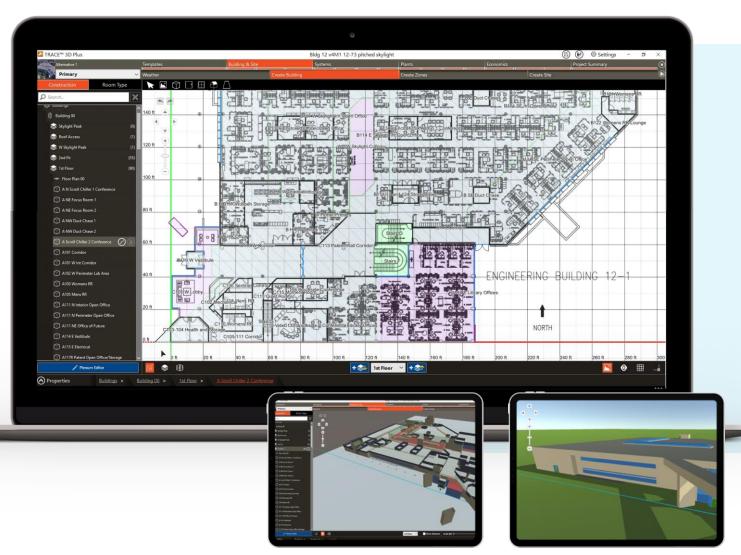
- Pre-configured building themes
- Thousands of pre-loaded and scalable libraries
- Simple, quick building wizard
- Industry standard defaults
- Built-in intelligence and validation
- Quickly compare up to 20 alternatives
- Great for "ballpark" EUI or utility costs





Design Development - Scalability





- Import or trace over building geometry
- Seamless load design integration
- Customize building themes, templates and libraries
- Quickly apply mass model changes
- Compare up to 20 alternatives
- Simulate alternatives simultaneously using the cloud

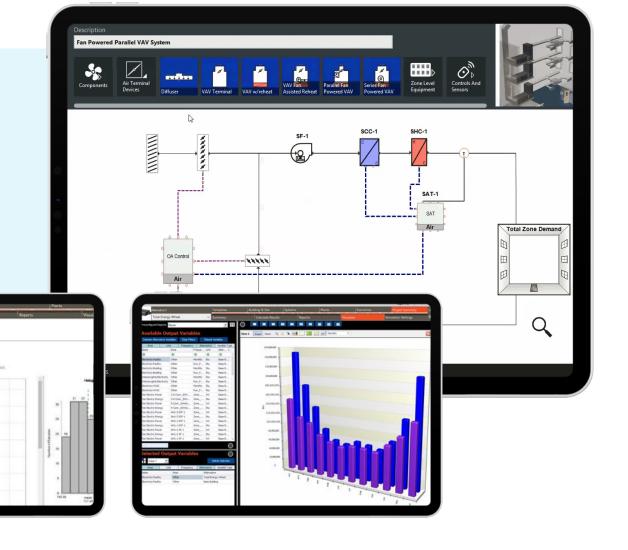


Design Development - Productivity

Sensitivity Results



- Schematic configurations
- Guided wizards
- Built-in intelligence
- Sensitivity and parametric analysis
- Graphic rich reports
- Data visualization





Recent updates you may not be aware of!







Improved simulation speed



Auto-sizing of cooling supply air temperature



Central W/GSHPs



Expanded undo/redo



Expanded checksums reports



Zoom to room



Improvements to load design reports and gbXML import







Version 5 just released!

- ASHRAE® 170 support
- New Load/Airflows report
- Spreadsheet capabilities
- Title 24 and ASHRAE® 90.1-2019 libraries
- Latent sizing options
- Improved air transfer model
- Export to LightStanza (Daylighting)
- Expanded heat recovery features
- Improved performance
- Silent installation option

And more!



Training and Support Options





Standard curriculum with flexible options

- Load Design
- **Energy and Economics**

Active subscriptions include world-class support

- **Email**
- Phone with screen sharing
- Comprehensive web-based knowledge center
- Engineers with years of industry experience

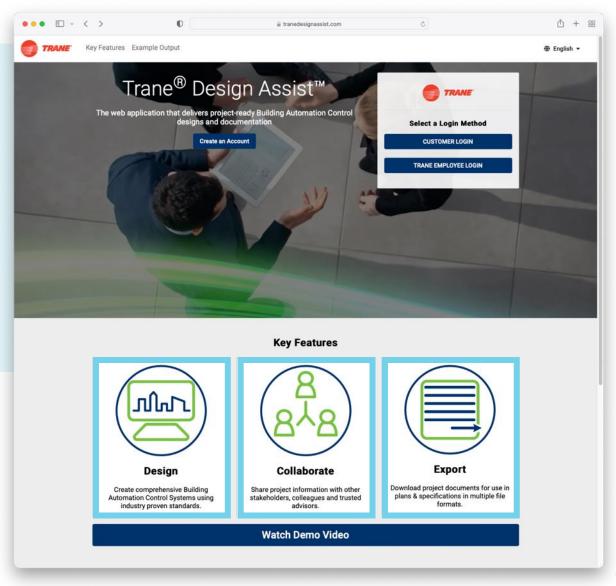




What is Trane[®] Design Assist[™]?



- Project designs and documentation for Building Automation Systems
- Web-based resource
- Manufacturer agnostic designs
- Complimentary, no licenses or fees

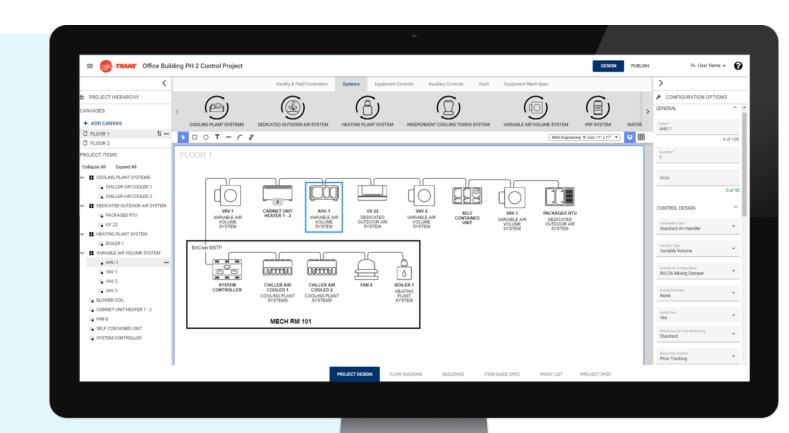




Where Can Trane® Design Assist™ Help?



- Streamlined workflow
- Jumpstart design efficiencies
- Industry standards and proven / leading strategies
- Self-service access to:
 - Project Layouts
 - Flow Diagrams
 - Sequence of Operations
 - Points List
 - Project Guide Specifications

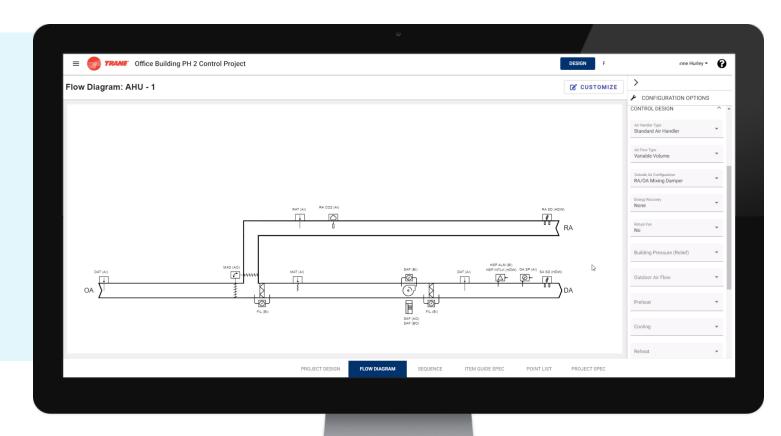




Schematic & Design Development – Reliability



- Build scalable project designs faster
- Consistencies within using Systems approach
- Flexibility in configuration options
- Customization features
- Saves times and prevents omissions

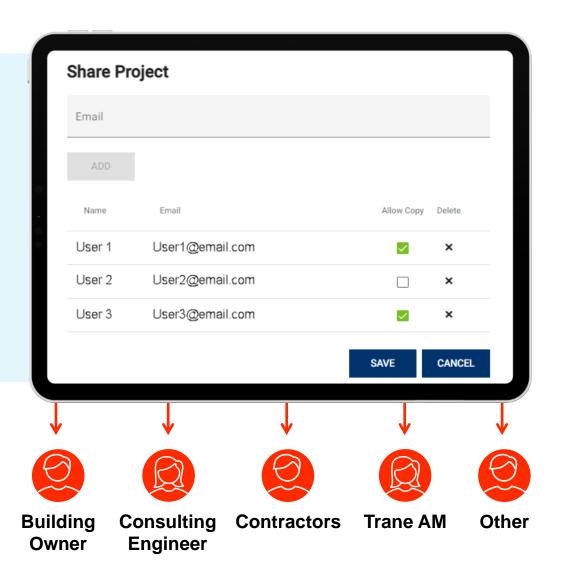




Design Development – Collaboration



- Share projects with other stakeholders, colleagues and trusted advisors
- Enhance productivity through increased communication
- Network sharing with other subject matter experts
- Faster problem solving and decision making
- Overall project delivery is accelerated





Construction Documents – Accessibility



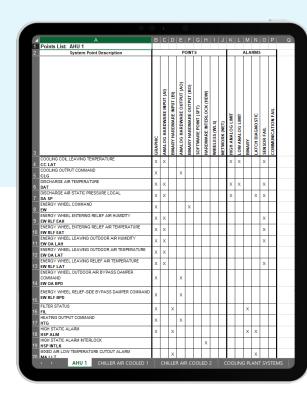
- Synchronized drawings and specifications
- Consistent and professional formats
- Expedited delivery of construction ready documents
- Supported file types:

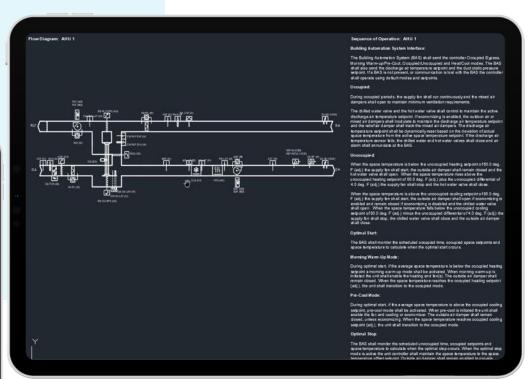














So what's new in Trane[®] Design Assist[™]?







Multi Language
Support
(Spanish, French
Canadian and Portuguese)



Legend Key and Flow Shape Library additions



"Typical for" item associations



System Design Library additions



Design Canvas Riser Layouts

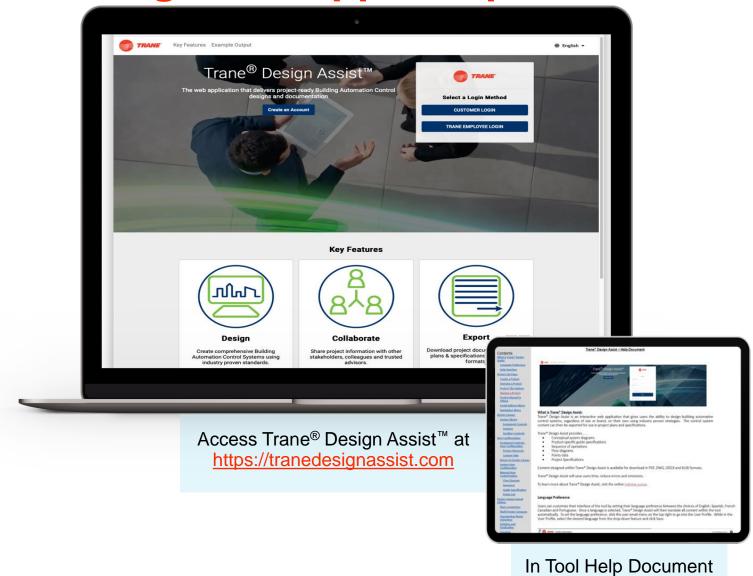


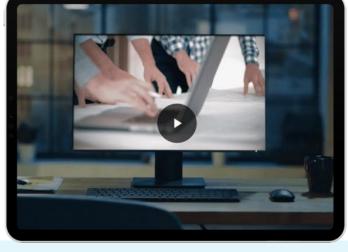
Project Guide Specifications



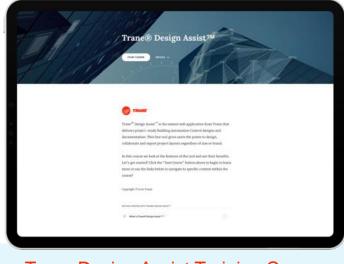
Training and Support Options







Introducing Trane® Design Assist™ Video



Trane Design Assist Training Course

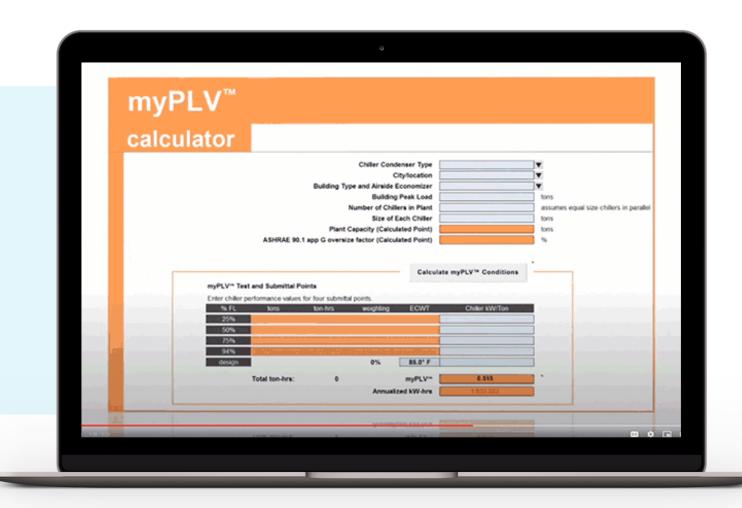




What is myPLV™?



- Excel-based chiller performance evaluation tool
- Industry-validated data
- Manufacturer agnostic
- Complimentary, no licenses or fees

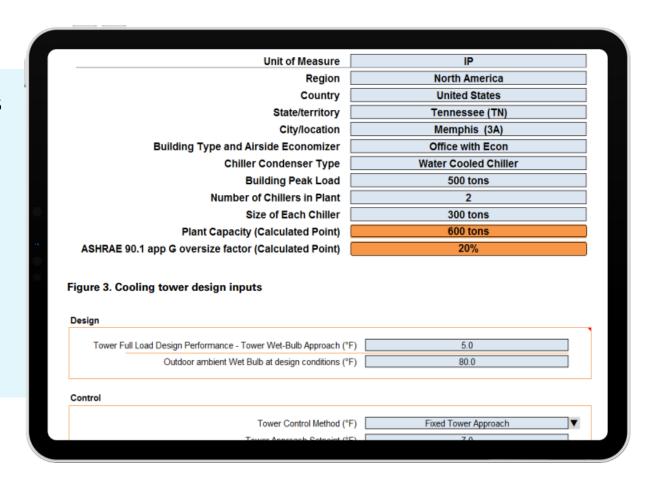




Where Can myPLV™ Help?



- Determine optimized condenser conditions
- Compare energy usage of various chillers
- Calculates real word operating conditions based on your:
 - Chiller plant layout
 - Location
 - Building type
 - Cooling tower control

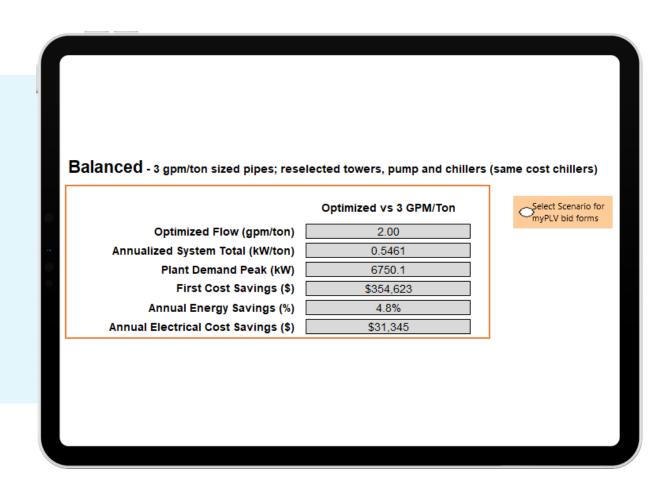




Schematic & Design Development – Reliability



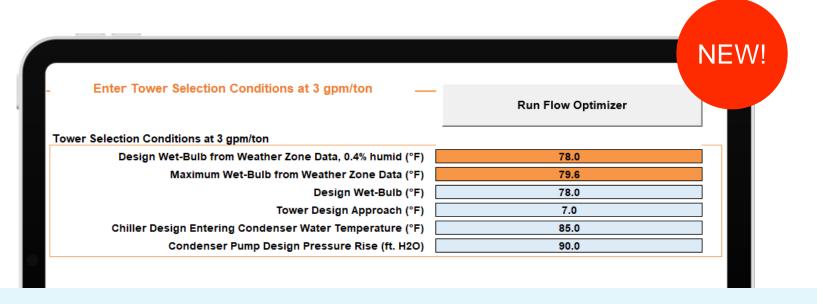
- Simplified alternative for chiller performance evaluation
- Quickly optimize condenser flowrate
- Project specific operating conditions
- Flexibility in plant configuration
- Energy Plus load profiles





So what's new in myPLV™?







SI and IP Units (Spanish, French Canadian and Portuguese)



Air- and Water-cooled Chillers



Exportable Bid Form



Condenser Flow Optimizer



Electric Consumption & Demand Charges



What about current industry trends?



Decarbonization of Buildings

TRACE 3D Plus

- Analyze Impact of Renewables' Energy Contributions (PV, Wind etc.)
- Quantify and Compare Site or Source Emissions (CO₂, NO_x, SO₂, etc.)
- Compare Greenhouse Carbon Footprint/Equivalence
- Understand, Quantify and Compare Source Energy Usage



Electrification
Renewables
Energy Efficiency
Systems

Trane Design Assist

- Assemble Energy Efficient sequences of operations & overall control strategies
- Layout heating, heat pump and heat recovery solutions
- Implement BAS Systems to help go all electric and avoid higher utility bills or equipment inefficiencies
- Improve building sustainability through simple and convenient control





Where can you learn more?



To learn more about our tools go to www.tranecds.com

Visit our e-commerce website at https://shop.trane.com

Contact via e-mail

at cdsadmin@trane.com
or tdasupport@trane.com

TRACE® 3D Plus Load Design

TRACE® 3D Plus Load Design is the next evolution of the globally used and trusted TRACE® 700 Load Design software. This 3D design platform makes accurately sizing your HVAC systems faster and easier at any desired level of fidelity. We've taken our 50 years of HVAC systems design and software simulation knowledge and combined it with the U.S. Department of Energy's state-of-the-art *EnergyPlus*® simulation engine. The result is a platform that makes right sizing HVAC systems intuitive and visually dynamic with an easy to understand workflow that's less error prone. Try the new TRACE 3D Plus platform today and get accurate sizing results in a fraction of the time.

Order Software >

Download Software >



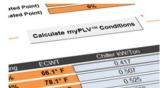
Trane® Design Assist™

Trane® Design Assist™ is the newest web application from Trane that delivers project-ready Building Automation Control designs and documentation.

This web-based tool gives users the power to design, collaborate, and export project layouts of all sizes and regardless of brand.

Learn More >

Launch Training >



myPLV®

Because every situation is unique, the myPLV® chiller performance evaluation tool offers a quick and simple option for chiller economic comparisons.

The customized myPLV value is calculated based on your individual criteria, reflecting specific chiller installation location, building purpose and chiller plant design. Because it considers all of these factors, myPLV is the best way to accurately predict future chiller performance.

Learn more >

Download Software >

or call us at 608-787-3936



