

MECHANICAL DESIGN

Rensch Engineering provides a vast knowledge of mechanical systems and design services.

Design Services are as follows:

- Heat, cooling, and ventilation load calculations meeting code requirements
- Energy modeling for LEED EA credits and state energy compliance
- Energy compliance consultation including building envelope
- Duct design and layout in 2D and 3D
- Control knowledge of multiple types of systems
- Commissioning for Mechanical systems and state energy compliance
- Noise compliance calculations
- Experienced with surveying existing buildings and summarizing existing systems and options for reuse or upgrading to meet current codes
- If we didn't list it, contact us to find out if we can help you.

Mechanical Systems:

- Packaged Rooftop systems including gas fired, heat pump, and custom units with energy recovery ventilator
- Chilled and Hot water systems for environmental cooling/heating and process cooling/heating needs
- Water source heat pump systems for environmental cooling and heating
- Steam systems for environmental heating and process heating needs
- Process air handlers with special filtration, varying fan speeds, and dehumidification and humidification options
- Special process systems such as building pressure control, laminar flow, ISO rated clean rooms, dehumidification, and harsh climate temperature and pressure systems
- Grease exhaust systems for restaurants and food processing
- Custom and traditional hood exhaust systems for welding, gases, cooking, and other processes
- Centralized systems including rooftop VAV coupled with indoor VAV boxes using hydronic or electric reheat options

- Natural gas design including low, medium, and high pressure
- Split systems, ducted with either heat pump or natural gas heating systems
- Split system, ductless with single and multiple head configurations
- VRF split system, ductless and ducted air handlers
- Grease exhaust systems for restaurants and food processing
- Custom and traditional hood exhaust systems for welding, gases, cooking, and other processes
- Centralized systems including rooftop VAV coupled with indoor VAV boxes using hydronic or electric reheat options
- Dedicated Outdoor Air Systems (DOAS) with Energy Recovery Ventilators (ERV) and options for cooling and heating
- Make-up air systems with tempered head coupled with exhaust systems

If you didn't see the system, you are specifically interested in, contact us to see how we can help you.