



What is a Pre-Assembled Unit (PAU)?

A Preassembled Unit (PAU) is any portion of the project that can be assembled or modified to remove labor hours from the on-site effort. Like Modularization, this approach reduces on-site work that can be performed prior to arrival at the site. The fabrication of PAUs can begin before permits are received, and PAUs can be shipped without permits. PAUs improve cost savings, production schedules, and safety and quality.

Equipment + Piping PAUs

- Exchangers
- Pumps
- Vessels
- Filters
- Compressors
- Control Loops
- Manifolds



PAUs can improve

Cost Savings

- Increased tool time
- Increased productivity
- Lower wage rates
- Additional steel + transportation costs mitigated by savings

Schedule

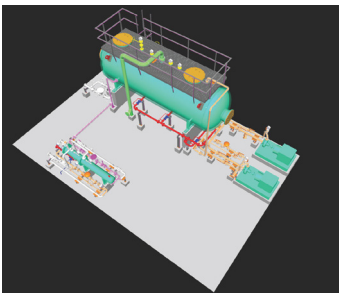
- Can begin construction before building permit or any regulatory permits
- Shorter schedule due to tool time and productivity improvements
- Simultaneous construction efforts in field and shop improve schedule

Quality

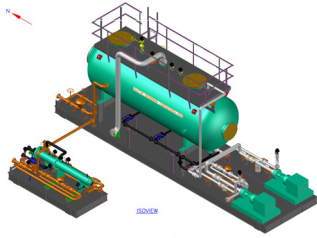
- Constructed in an indoor controlled environment
- Field welds performed in a shop setting with all the equipment to support it
- Testing performed in a shop setting

Safety

- Safety exposure hours moved off-site
- Reduction of onsite manhours reduces safety risks



a traditional stick build



a PAU build

Cost Savings Case Study

This sulfur degassing contactor and sulfur cooler were priced as a traditional on-site build vs a PAU build. To assemble the contactor and cooler on a skid vs on-site saved the client **35% on their construction costs.**