



An Integrated Solution to Minimize Planning and Optimize Efficiency

Origin™ by Steffes is an all-electric, large volume, central heat pump, domestic water heating system specifically designed for multi-family building projects with decarbonization design goals. Steffes brings 30+ years of experience in energy storage, HVAC, and system manufacturing to provide this advanced heat pump water heating technology in an integrated solution. Designed as a packaged system, Origin™ takes the complexity and cost out of your projects' domestic hot water system design and installation. Our team of engineers can aid in the application and engineering design support to integrate Origin™ systems into your project.

PRODUCT & DESIGN FEATURES:

- All-electric and energy efficient
- Single source centralized unit
- Multiple sizes designed for the number of apartments on the hot water loop
- Packaged system design, including storage tanks, swing tanks, and expansion tanks with a building interface section containing water pumps, heat exchanger, valves, and controls
- Plug-and-play solution for easy installation and operation
- Competitively priced compared to distributed systems and to field-built systems
- Durably manufactured with a 20 year design life
- Suited for new construction or retrofit projects
- Demand management ready with CTA 2045 communications protocol

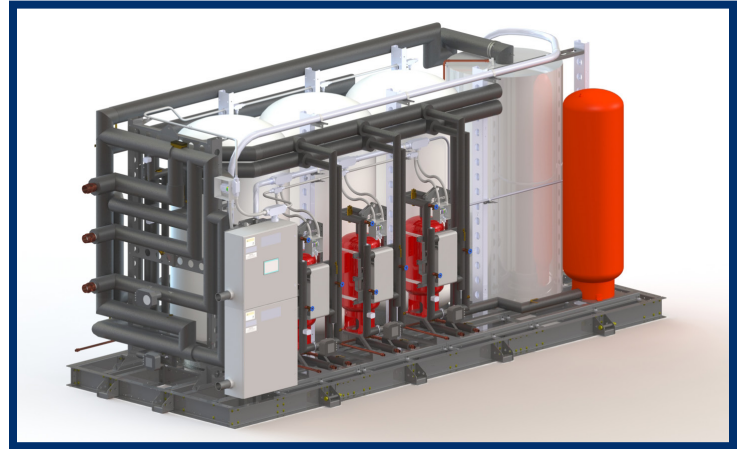
WHY DO PEOPLE WANT IT?

- **Developers** like energy efficiency and building decarbonization from using Origin™
- **Property Managers** like not needing apartment access to a service system
- **Owners** like better energy efficiency and lower costs
- **Engineers** like the efficiency benefits and the system design aspects
- **Electric Utilities** like the exclusive use of electricity

Learn More About Origin by Steffes at www.steffes.com/origin

WHAT'S INCLUDED IN OUR PACKAGE?

- Up to 1,500 gallons of water storage
- Swing tank for off-hours temperature backup
- System expansion tank
- Building recirculation system with hot water digital mixing valve
- Isolation heat exchanger to protect pump(s)
- Control packages with installed sensors
- Removable panels for system access



ORIGIN PRODUCT FEATURES:

- Systems sizes are for anywhere from 50 to 200 apartments and can be combined to meet larger complexes
- 7 ½ feet deep by 9 ½ feet high and either 12, 16, or 20 feet long (length depends upon number of storage tanks)
- Sized for different geographies including cold climates
- Modularized into three sections:
 1. Heat Pump Interface Section: contains piping connections to remote heat pump water heater(s) and isolation heat exchanger
 2. Tank Section: contains storage tanks, swing tank, and expansion tank
 3. Building Interface Section: contains water pumps, mixing valve, and controls panel

PRIMARY HEAT PUMP WATER HEATING WITH SWING TANK

Example of 75 unit apartment option

