



A Packaged Domestic Hot Water System

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:

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

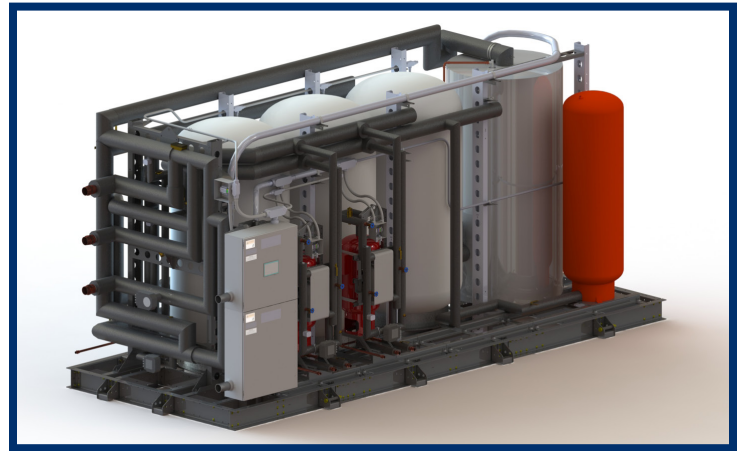
WHY DO PEOPLE WANT IT?

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

Learn more about Origin by Steffes at www.originbysteffes.com

WHAT'S INCLUDED IN OUR PACKAGE?

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



ORIGIN PRODUCT FEATURES:

- Systems sized to accommodate facilities from 50 to 200 units and can be combined to meet larger complex needs
- 7 ½ feet deep by 9 ½ feet high and either 12, 16, or 20 feet long (length depends upon number of storage tanks)
- Designed 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 option

