

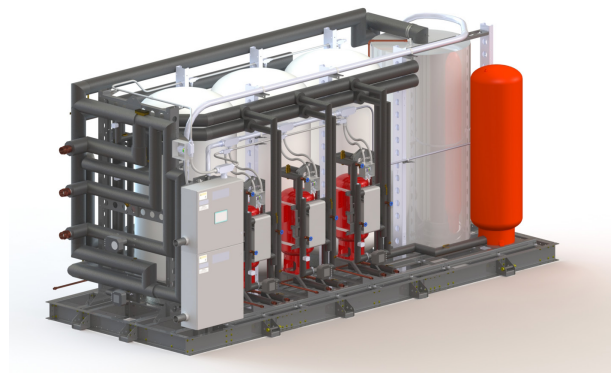
AN INTEGRATED SOLUTION TO MINIMIZE PLANNING AND OPTIMIZE EFFICIENCY

Origin™ by Steffes is a domestic hot water management system for large volume central heat pump water heating systems, 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 a packaged solution.

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 in three different footprints to fit your facilities from 75 to 150 apartments or can be combined to meet larger complex needs.
- Designed for different geographies including cold climates.
- Modular system design including:
 - **Heat Pump Interface Section:** contains piping connections to remote heat pump water heater(s).
 - **Tank Section:** contains storage tanks, swing tank(s), and expansion tanks.
 - **Building Interface Section:** contains recirculation water pump, mixing valve, and control panel.
- 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.
- CTA 2045 compatible.



AN INTEGRATED PACKAGED SOLUTION:

- 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 Pump and System Digital Mixing Valve
- Isolation Heat Exchanger to keep city water out of heat pump
- Control package with factory installed sensors and devices
- Touch-screen user interface and remote system access
- Removable panels for equipment access and to aid field service / maintenance

	ORIGIN SMALL	ORIGIN MEDIUM	ORIGIN LARGE
Length	12'	16'	20'
Width	8.5'	8.5'	8.5'
Height	9.5'	9.5'	9.5'
Dry Weight	9,000 lbs.	11,100 lbs.	13,200 lbs.
Wet Weight	15,600 lbs.	24,100 lbs.	30,400 lbs.
Voltage	208VAC 3Φ w/ N		
FLA	107A	158A	209A
MCA	134A	197A	261A
MOCP	150A	200A	300A
# of Heat Pumps	1-2	1-3	1-3
Nominal Total Heat Pump Capacity Accepted*	110-341 kBTU/h (32-100kW)	110-674 kBTU/h (32-198kW)	110-674 kBTU/h (32-198kW)
Water Storage	500 gal	750 or 1,000 gal	1,250 or 1,500 gal
Backup Heat Capacity	123kBTU/h (36kW)	184 kBTU/h (54kW)	246 kBTU/h (72kW)
Water Output Temperature	110-140°F		
Water Storage Temperature	140-180°F		
Internal Piping Material	Copper Type L		
Tank Material	Carbon Steel Glass Lined with 2.5" Insulation		
Building Interface Connections	3" MNPT Copper		
Heat Pump Interface Connections	1" MPT Copper		
Heat Pump Controls Conduit Hub	3" MNPT RMC Zinc		
Line Power Conduit Hub	3" MNPT RMC Zinc		
<i>*Larger capacities may be available with more sizing data.</i>			

