



BUILT FOR COMFORT

The Steffes Comfort Plus Hydronic Furnace (5100 Series) adds a new dimension to heating by blending hydronic heating with Electric Thermal Storage (ETS) technology. During off-peak hours, when electricity costs and energy usage rates are low, the Comfort Plus Hydronic Furnace converts electricity into heat and stores it in specially-designed ceramic bricks located inside the unit. Through the use of a heat exchanger, this stored heat is transferred to water and then delivered to areas where it is needed.

The furnace is extremely flexible and can handle multiple heating zones. Heat can be delivered by a radiant floor system, baseboard radiation, free standing radiators, a forced air system or almost any combination of zoned delivery systems.

LEARN MORE

www.steffes.com/comfortplushydronic

ECONOMICAL & EFFICIENT

When interfaced to a heat pump, this furnace offers one of the most economical heating and cooling options available. By pairing the two systems, the Comfort Plus Hydronic Furnace will add the precise amount of supplemental heat required to ensure constant comfort while still allowing full optimization of the heat pump's efficiency.

The Comfort Plus Hydronic Furnace is easy to operate. Just set the room thermostat to the desired comfort level and enjoy the safe, clean, reliable and economical heat this off-peak system provides.



COMPONENTS

- Programmable microprocessor based control panel
- 2. Built-in circuit breakers for power disconnect
- 3. High density heat storage bricks
- 4. Electric heating elements
- 5. Required primary water loop and accessories (separately ordered or installer supplied)
- 6. Optional air handler 1/2 HP or 3/4 HP variable speed blower with hydronic coil and air filter
- AC or heat pump coil (must be installer supplied, if applicable)

$5140^{68} \frac{5^{"}}{8}$ $5130^{57} \frac{5^{"}}{8}$ $5120^{46} \frac{5^{"}}{8}$ $5120^{46} \frac{5^{"}}{16}$ $5120^{46} \frac{5^{"}}{16}$

Note: There are required installation clearances. Contact the factory for this information.



UNIQUE FEATURES

- Automatic core charging
- Digital operating display
- Built-in power line carrier receiver
- Optional time clock module available for peak control
- Easy interface to heat pumps or air conditioners (if using air handler)
- Easily selectable outlet water temperature or can automatically adjust based on outdoor temperature

1kW = 3412 BTU/hr 1kWh = 3412 BTU

5-year limited manufacturer's warranty

SPECIFICATIONS For standard 240V units. 208V, 277V, and 347V configurations also available. Contact factory for technical specifications.									
MODEL	5120			5130		5140			
Charging Input	14.0 kW	19.2 kW	24.8 kW	28.8 kW	37.2 kW	38.4 kW	45.6 kW		
Element Current Draw	59 amps	80 amps	104 amps	120 amps	155 amps	160 amps	190 amps		
Element Circuits Required	1-20 amp 2-30 amp	1-30 amp 2-40 amp	1-40 amp 2-50 amp	4-40 amp	4-50 amp	4-50 amp	4-60 amp		
Pump and Blowers/Controls Circuit Required	1-15 AMP (10 amps maximum load)								
	Unit is factory configured with multiple line voltage, single phase circuit conne and blowers controls circuits is desired, an optional single feed kit is available when making connections in 3-phase applicati						Phase balancing is recommended		
Storage Capacity	120 kWh (409,440 BTU)			180 kWh (614,160 BTU)		240 kWh (818,880 BTU)			
Approximate Installed Weight	2,218 lbs			3,046 lbs		3,894 lbs			
	Contact a building contractor or architect if you have structural weight concerns of the installation surface selected. Adhere to all national and local electrical and building code placement requirements for electric heating appliances.								
Pipe Size – Water Inlet/Water Outlet	1"								
Output Water Temperature Selection Range	50°F/10°C to 185°F/85°C								
Maximum Working Pressure	20 PSIG Standard (Optional pressure relief valves providing 60 PSIG or 125 PSIG maximum working pressure available as special factory orders).								
Minimum Flow Rate (primary loop)	1 GPM per 10,000 BTU of required output at 20°F/-6°C temperature rise (10 GPM maximum)								
Internal Pressure Drop (assuming 50% glycol mix)	.1 ft @ 2 GPM .2 ft @ 4 GPM			.4 ft @ 6 GPM .7 ft @ 8 GPM		1.1 ft @ 10 GPM			
Heating Ability Based on Charge Time 8 Consecutive Charge Hours 12 Consecutive Charge Hours 6/4/6/8 Charge Strategy	20,414 30,621 30,621	27,996 41,994 41,994	34,175 45,566 54,242	41,994 62,991 62,991	49,212 65,615 81,363	55,992 83,988 83,988	65,615 87,487 99,738		
	The size and heating ability of the system required for an application is dependent on the heat loss of the area and the power company's off-peak hours. If the unit is not installed within the heated area, heat loss statically must be taken into account. Contact your local dealer or power company for assistance in selecting an appropriately sized system for your specific charge strategy. The 6/4/6/8 strategy listed is 8 hours off-peak at night plus 4 hours off-peak mid-day. (The heating ability figures listed have a heat use allowance factored in for sizing purposes. Average BTU delivery rate is the listed value multiplied by .78 heat use factor.)								