

COMFORT for the FUTURE

Electric thermal
storage system
for central heating



Learn more:
steffes.com/hq-e



GO GREEN

An ideal solution for replacing a fossil fuel central system.

Going green is the trend, and an electric thermal storage system for central heating is a perfect solution for homeowners who want to increase their energy savings and replace their fuel-burning central system with an electric one. A central heating system with electric thermal storage is 100% electric. Since it replaces equipment that runs on fossil fuels, it protects the environment and reduces your greenhouse emission, as electricity generated in Québec is 99% clean and renewable.



GENIUS IN A VERY SIMPLE TECHNOLOGY



How does the Serenity electric thermal storage system work?

First of all, the Serenity electric thermal storage system for central heating is a forced-air system operating without fossil fuels. When electricity rates are at their lowest, during off-peak hours, the Serenity furnace converts electricity to heat. The heat is stored in high-density ceramic bricks inside the unit. During peak periods, power to electric elements automatically turns off and unit fans release the stored heat throughout the house.

Combined with a dynamic rate program and a high-efficiency heat pump, the heat storage system provides your household with the coziest winter and lower electricity bills.

More persuasive technical benefits

- Proven technology
- Minimal and easy maintenance
- Low noise level compared to a dual-energy or fuel-oil system
- Can be combined with a heat pump
- No overheating in the area where the device is installed, despite the high temperature of the thermal mass
- Easy connection to existing ventilation ducts

Serenity + Heat Pump : a perfect match

To maximize the many advantages of the Comport Plus furnace it is ideally coupled with a conventional central heat pump. Today's heat pumps provide efficient, low-cost heating and cooling, but many struggle to provide adequate comfort in frigid climates. When the demand for heat exceeds a heat pump's capacity, the Serenity furnace adds the precise amount of stored heat to deliver consistent comfort in your home. And because that stored heat is generated off-peak, the combined benefits provide the best, most economical heating system on the market.



MAXIMIZE YOUR SAVINGS WITH A DYNAMIC ELECTRICITY RATE

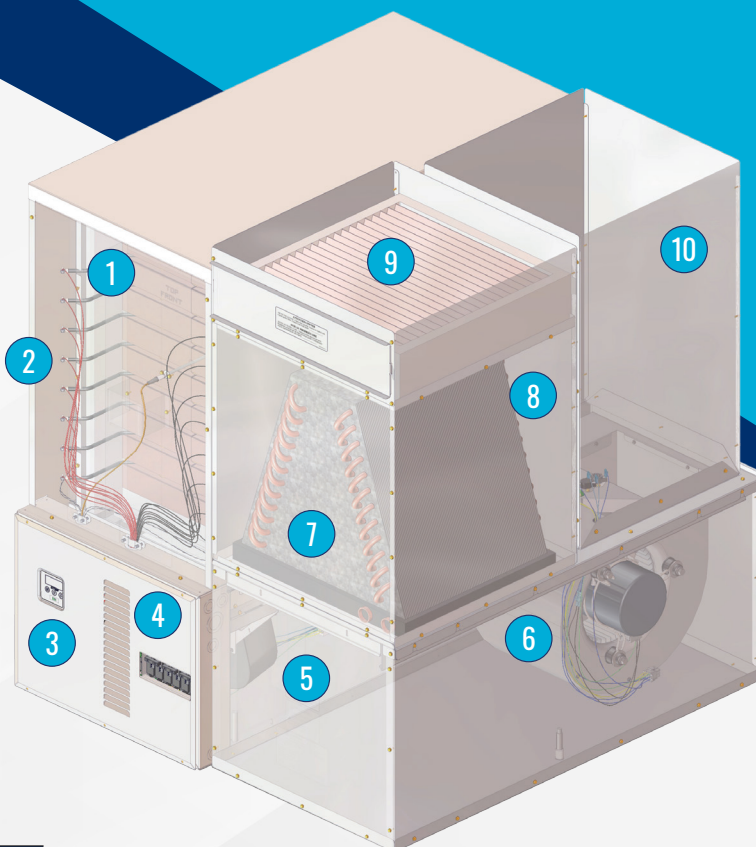
To achieve significant savings, it is also recommended to sign up for Hydro-Québec's new dynamic rate. Here's how it works: during winter, in off-peak periods, the price of electricity is below the base rate. Conversely, during peak periods, electricity is billed at a higher rate. Since the Serenity central heating system elements store heat during off-peak periods and shut down during peak demands periods, major savings can be achieved. Visit www.hydroquebec.com/residential/customer-space/rates/rate-flex-d.html for all the details.

Homeowner Incentives

The Serenity furnace qualifies for the Electric Thermal Storage incentive. These significant rebates are available from Hydro-Québec for a stand-alone Serenity furnace as well as a combination of Serenity + heat pump system. For more information on Hydro-Québec rebates, visit www.hydroquebec.com/residential/energy-wise/windows-heating-air-conditioning/thermal-storage/

Components

1. High density heat storage bricks
2. Electric heating elements
3. Programmable microprocessor-based control panel and digital display
4. Built-in circuit breakers for power disconnect
5. Core blower
6. Air handler with 1/2 HP variable speed blower
7. AC or heat pump coil (must be installer supplied, if applicable)
8. Return air plenum (separately ordered or installer supplied)
9. Air filter
10. Supply Air Plenum (separately ordered or installer supplied)



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

SPECIFICATIONS

MODEL		4210
Charging Input	kW	16.0
Single Feed: Minimum Circuit Ampacity (includes 25% derate for continuous load)	AMP	91.5
Charging Circuits Required	AMP	2 - 60, 1 - 15
Maximum Core and Supply Blower Load	AMP	7
Element Voltage	V	240
Blowers/System Controls Voltage	V	240
Storage Capacity	kWh	80
	BTU	284,300
Dimensions Including Air Handler	W x D x H (in)	43 x 44 x 47
Duct openings	Supply Air Outlet (in)	18.6 x 18.1
	Return Air Inlet* (in)	16 x 16
Appropriate Systems Weight	lbs	325
Number of Bricks		72
Approximate Brick Weight	lbs	1,116
Number of Elements		8
Approximate Installed Weight	lbs	1,536
Approximate Air Handler Weight	lbs	95

*The return and supply air plenums can be ordered as optional pieces with the 4200 series systems. They must be installed on the correct opening. Any ducting must accommodate the opening sizes at a minimum.

Manufacturer reserves the right to discontinue or change at any time, specifications or designs, without notice or incurring obligations.



3050 HWY 22 N | Dickinson, ND 58601 | 701-483-5400 | www.steffes.com | offpeak@steffes.com

