COMFORT PLUS™

COMFORT for the FUTURE

Electric thermal storage system for central heating

STEFFES

Learn more at steffes.com/comfort-plus-forced-air

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 Comfort Plus electric thermal storage system work?

First of all, the **Comfort Plus 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 Comfort Plus furnance 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 releases 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

Comfort Plus + Heat Pump : a perfect match

To maximize the many advantages of the Comport Plus furnance 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 Comfort Plus 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.

COMFORT PLUS™

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 Comfort Plus 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 Comfort Plus furnace qualifies for the Electric Thermal Storage incentive. These significant rebates are available from Hydro-Québec for a stand-alone Comfort Plus furnace as well as a combination of Comfort Plus + 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. Return air plenum (separately ordered or installer supplied)
2. AC or heat pump coil (must be installer supplied, if applicable)
3. Air filter
4. Built-in circuit breakers for power disconnect
5. Programmable microprocessor based control panel and digital display
6. Electric heating elements
7. High density heat storage bricks
8. Supply air plenum with 1/2 HP variable speed blower

1kW = 3,412 BTU/hr 1kWh = 3,412 BTU

SPECIFICATIONS			
MODEL		**4120**	
Charging Input	kW	19.2	24.8
Number of Elements		8	
Element Voltage	V	240	
Blowers/System Controls Voltage	V	240	
Single Feed: Charging & Blowers/Controls Circuits Minimum Circuit Ampacity (includes 25% circuit size derate for continuous load)	AMP	109	138
Single Feed - Maximum Fuse Size	AMP	125	150
Storage Capacity	kWh	120	
	BTU	426,500	
Maximum Maintainable Heat Loss (Peak Control: 6am - 9am & 4pm - 8pm)	kW	17.44	22.52
	BTU/hr	59,491	76,843
Dimensions including Supply Air Handler	W x D x H (in)	49 7/16 x 47 5/16 x 46 5/8	
Duct Openings	1/2 HP Supply Air Outlet (in)	18 x 22 5/8	
	Furnace Return Air Inlet (in)	10 1/2 x 22 5/16	
Approximate Furnace Chassis Weight	lbs	401	
Number of Bricks	Whole Brick	105	
	Half Brick	6	
Approximate Brick Weight	lbs	1,704	
Approximate 1/2 HP Supply Air Handler Weight	lbs	65	
Approximate Total Installed Weight	lbs	2,170	

Dimensions do not include the return air plenum. The return and supply air plenums can be ordered as optional pieces with the 4100 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.

LIMITED MANUFACTURER'S 5-YEAR PARTS WARRANTY

STEFFES

Master HEATING | VENTILATION | AIR CONDITIONING REFRIGERATION | HYDRONICS
Comfort distributor
master.ca

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