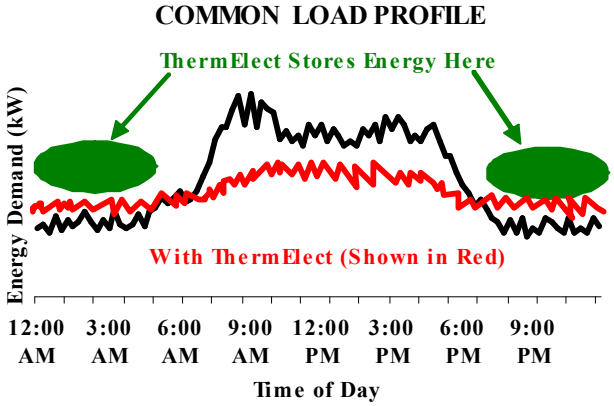
Commercial, Institutional & Industrial
Demand-Free Off-Peak Electric Heating

The Electric Thermal Storage Advantage

ThermElect is a commercial Electric Thermal Storage (ETS) heating system. It uses Demand Free, Off-Peak electricity to provide a low cost heating solution for commercial, industrial, and large residential applications. ETS equipment is designed to store electricity, as heat, during hours when energy costs are lower and kW demand charges are not incurred. ThermElect's thermal mass consists of a high-density ceramic brick capable of vast heat storage.

Energy and Demand Management

An on-board energy management control system is capable of reading the total demand of the building by monitoring the utility meter's pulse signal and ensures the system stores heat only during low demand periods. With the optional external load control module, you can also control up to 16 external loads. In addition, ThermElect has the ability to interface with other energy and demand management control systems with 4-20mA (1-5 Volts DC) output signal.

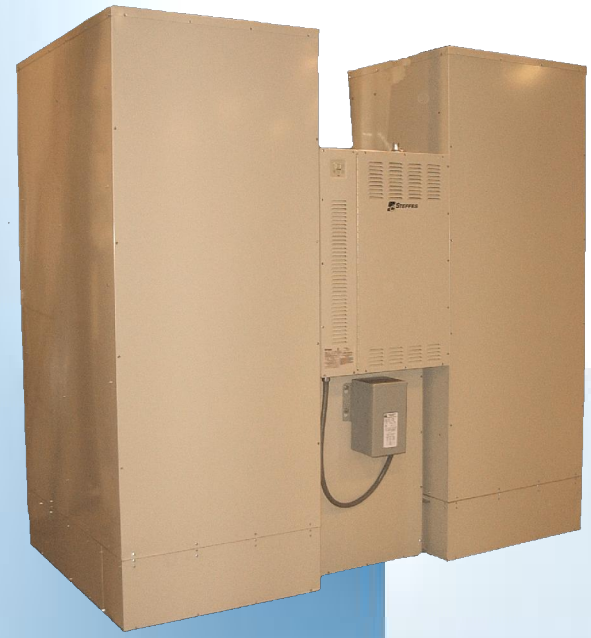


Automatic Operation

An outdoor temperature sensor regulates the amount of heat the system stores in its brick core. The room thermostat, along with a temperature sensor in the air duct system, regulates heat delivery and provides demand free heat 24 hours a day.

Versatility

ThermElect can fit almost any application. It is designed for use as a stand alone furnace or as a slave unit to a third party energy management controller for space or make up air heating needs.



The Off-Peak Solution For:

- Peak demand reduction
- Proportional pre-heating fresh air
- Energy management
- Improving facility load factor
- Schools, hospitals, churches, courthouses, post offices, etc.
- Replacing an existing heating system too costly to operate or repair
- Low cost heating

Features

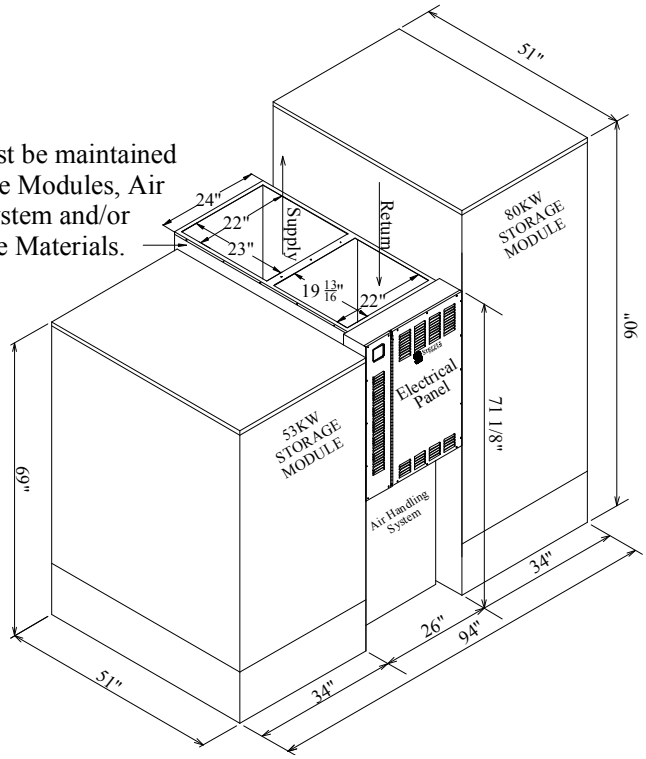
- Programmable microprocessor-based control system allows for customization, flexibility and self-diagnostics
- High density ceramic brick core for maximum storage capacity
- Built-in power line carrier receiver for wireless communication of information such as utility peak control signals, outdoor temperature, room temperature setbacks and automatic brick core charge control (208/240V systems only)
- Super insulation package to ensure low surface temperatures and minimal static heat dissipation
- Minimal annual maintenance
- Safe and Environmentally Friendly

Specifications **(Available voltages: 277/480, 347/600, 240 and 208)**

Modular design allows one control and air handling system to operate any two storage module combinations at the same time. The storage module's base is removable to allow passage through smaller openings.

Module	8150	8155	8180	8185	8188
Input	**53 kW**	**106 kW**	**80 kW**	**133 kW**	**160 kW**
* Storage Capacity	320 kWh 1,091,840 BTU	640 kWh 2,183,680 BTU	480 kWh 1,637,760 BTU	800 kWh 2,729,600 BTU	960 kWh 3,275,520 BTU
** Approximate Weight	4,540 lbs.	8,800 lbs.	6,290 lbs.	10,550 lbs.	12,300 lbs.
Dimensions with Ducting (W x D x H)	60" x 51" x 69"	94" x 51" x 69"	60" x 51" x 90"	94" x 51" x 90"	94" x 51" x 90"
Supply Air Delivery	2000 CFM Standard, 3000 CFM Optional				

1" Clearance must be maintained between Storage Modules, Air Handling System and/or Combustible Materials.



* *The size and heating capability of the system required for an installation is dependent on the thermal load and the demand profile of the client. The daily rate structure of the utility can also affect the size.*

** *The weight of the heating system must be considered when selecting an installation surface. Contact a building contractor or an architect if you have structural weight concerns.*

Detailed specifications available at www.steffes.com

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