

Steffes

ETS

ELECTRIC THERMAL STORAGE ROOM UNITS

*A Low Cost Off-Peak Heating Solution
for Optimum Comfort and Convenience*

2103

THE **ETS** CONCEPT



Electric Thermal Storage (ETS) heaters are designed to use low cost, off-peak electricity for heating a home or business 24 hours a day. Electric heating elements lie within high-density ceramic bricks capable of storing vast amounts of heat for extended periods of time. During off-peak hours, when electricity costs are lower, the heater will store electric energy as heat. This stored heat is used to satisfy immediate heating requirements and to provide total comfort during peak hours, when a power company's demand for electricity and associated costs are

high. Power companies generally offer substantial discounts (up to 40% or even greater), for electricity used during the off-peak hours. With this rate discount, consumers can realize significant savings in their energy bills when compared to alternative heating options.

HOW **ETS** WORKS



Heat Storage Control

The amount of heat stored in the brick core is regulated manually by the user or automatically in relation to outdoor temperature (stores less in mild weather and more in colder weather). During a charging period (off-peak time), the heater stores the appropriate amount of heat needed to satisfy comfort requirements.

Room Temperature Control

The desired comfort level is regulated by the heater's built-in room thermostat using a blend of radiant heat from the warm heater surface and convection heat from the fan as it circulates the stored heat into the room.

Peak Control

Steffes ETS equipment interfaces with various on-peak and off-peak signaling devices to regulate energy usage by the consumer and the heating equipment. These include utility control switches, utility meters and time clocks. The power company generally provides a method of recording the off-peak energy usage to ensure you receive the energy savings offered by the off-peak rate.

- ▶ SAFE, CLEAN, COMFORTABLE HEAT
- ▶ NO SMOKE, NO FUMES, NO MESS
- ▶ EASY TO OPERATE
- ▶ NO ROUTINE MAINTENANCE
- ▶ 100% EFFICIENT
- ▶ MANUFACTURED IN NORTH AMERICA
- ▶ 5-YEAR LIMITED MANUFACTURER'S WARRANTY

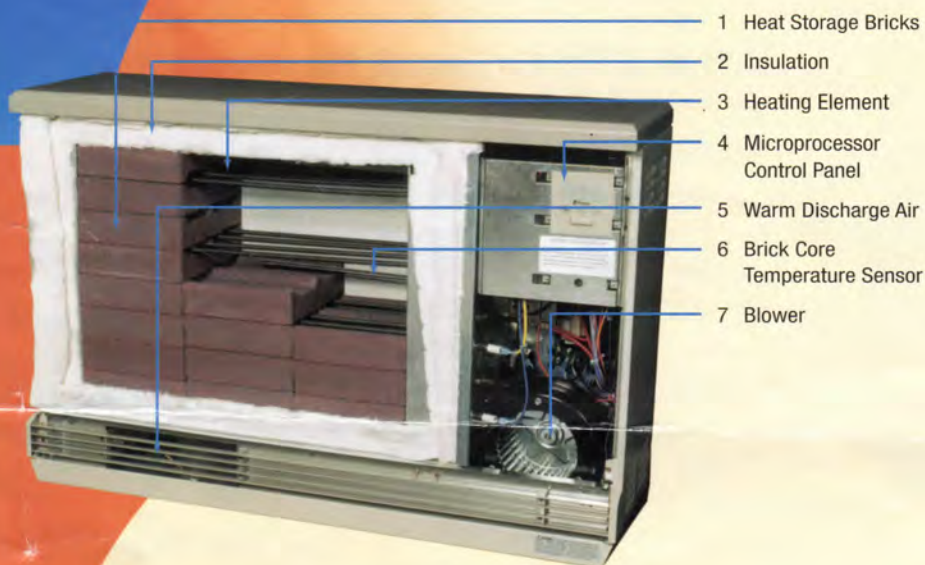
Heat The Smart Way With Electric Thermal Storage

ETS heating systems utilize low cost, off-peak, electric rates to provide owners excellent comfort and substantial savings on their heating bills. Steffes Corporation offers a full line of high quality storage heating products including room units, centrally ducted units, and hydronic units as well as the interfacing peak control devices to allow ETS to fit just about any application.



Display/Control Panel

THE STEFFES 2100 SERIES ROOM UNIT OFFERS MANY UNIQUE FEATURES



- 1 Heat Storage Bricks
- 2 Insulation
- 3 Heating Element
- 4 Microprocessor Control Panel
- 5 Warm Discharge Air
- 6 Brick Core Temperature Sensor
- 7 Blower



- Microprocessor Technology
- Low Cost Automatic Charge Control
- Heater Operation Display Lights
- Integral Digital Room Temperature Thermostat
- Brick Core and Air Discharge Temperature Safety Controls
- Variable Speed Blower
- Built-in Controls to Reduce Installation Time & Costs
- Microprocessor Based Time Clock Module (Optional)

Specifications

Standard voltage on all systems is 240VAC. Charging input voltages of 208 and 277 are also available.

MODEL	Charging Inputs (kW) Available (See Note 1)	Approximate Installed Weight (lbs)	Dimensions (Inches)		
			Length	Height	Depth
2102 (See Note 2)	2.4, 3.0, 3.6	267	30	24.5	10.5
2103	3.6, 4.5, 5.4	376	37	24.5	10.5
2104	4.8, 6.0, 7.2	478	44	24.5	10.5
2105	6.0, 7.5, 9.0	585	51	24.5	10.5
2106	7.2, 9.0, 10.8	692	58	24.5	10.5

NOTE 1: kW input must be specified at time of order. The appropriate model and kW input for your application will depend on heat loss of the area intended to be heated and the number of power company off-peak hours available. Contact your local power company, a contractor or Steffes Corporation for assistance in selecting an appropriately sized system.

NOTE 2: Model 2102 also available in a 1.32kW input with a 120V plug-in cord.

NOTE 3: A clearance of 12" is recommended on the right side of heater to ensure accurate room temperature sensing and for servicing purposes. If less than 12" is available, an optional remote room temperature sensor is available.

MINIMUM CLEARANCE REQUIREMENTS

Top	4"
Front	15"
Sides (See Note 3)	2"
Back	1.5"

ETS ... Perfect for just about any application

(Whole House or Warm Room Heating)

- Electrically Heated Homes
- Fossil Fuel System Replacement
- Wood Stove Replacement
- Boiler Replacement

Typical Installations

- Primary Residence
- Weekend Home or Cabin
- Manufactured Home
- Apartments or Condominiums
- Churches
- Hotels/Motels
- Schools/Offices
- Warehouses

RETAIN THIS PORTION FOR YOUR RECORDS



3050 N Highway 22
Dickinson, ND 58601 USA
(701)-483-5400

Your Electric Thermal Storage (ETS) Heater Specialists

Date Purchased: Oct 19/05

Dealer's Name & Address: Hill top
Pont Hood

Model Number:	MODEL NUMBER	2103	_____
Serial Number:	SERIAL NUMBER	10805234577452SHH	_____
	FAN VOLTAGE	240	_____
	ELEMENT VOLTAGE	240	_____
	OPTION CODE	150	_____