



AXEMAN-ANDERSON'S ELECTRIC THERMAL STORAGE SYSTEM

STORE ENERGY AT NIGHT USING
LOW COST "OFF-PEAK" ELECTRICITY
FOR NIGHT AND NEXT DAY HEATING.



Heating with an ENERSTOR will save you money not only for heating, but many utilities offer the "off-peak" rate for all your household electric use.

Many utilities offer cash grants for the installation of electric thermal storage systems.

The ENERSTOR can be used with a central hot water system, a forced warm air system, or as a supplemental heat source for a heat pump.

The ENERSTOR is ideal for new or existing buildings.

This Product is Listed by
UNDERWRITERS LABORATORIES INC.
and Bears the Mark:



FEATURES

- Uses low cost "off-peak" electricity
- Fully insulated R-17 value
- Vertical design means high stratification maximizing storage capacity yielding low operating costs
- Only 0.6°/HR standby loss
- Low voltage controls
- Lifetime limited warranty
- A.S.M.E. constructed boiler using 5/16" and 3/16" code steel
- Modular concept saves space
- Requires no chimney
- Designed for solar addition
- Standard, available stock components

AXEMAN-ANDERSON COMPANY
ENGINEERS AND MANUFACTURERS
OF HEATING EQUIPMENT
SINCE 1944

THE SYSTEM

by Axeman Anderson

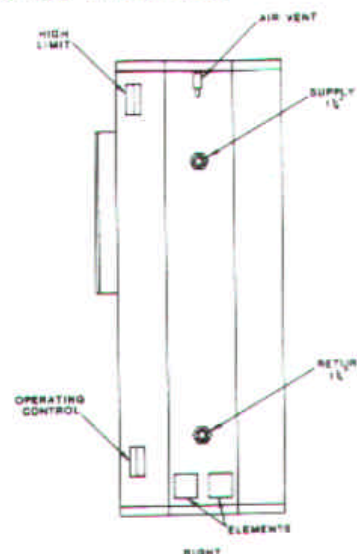
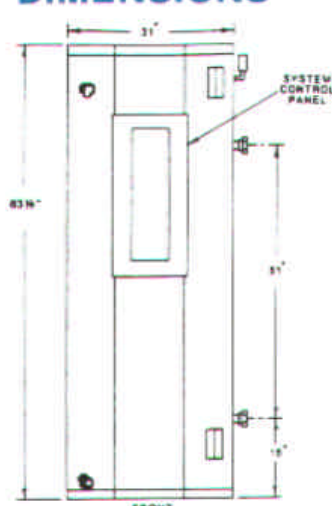
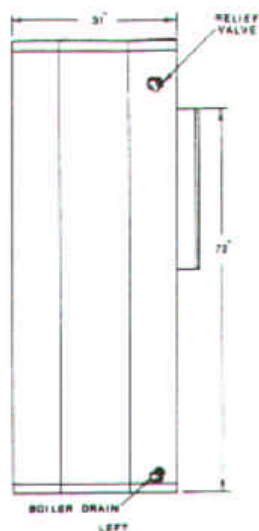
The ENERSTOR system consists of an A.S.M.E. code boiler or series of boilers (modules) that store energy by heating the water in the boiler(s) only during nighttime hours at "off-peak" rates when the cost of electricity is lowest (as much as 50% savings). This low cost stored heat from the "charged" boiler(s) is then released to the heating system as needed during the night and for the next day.

The ENERSTOR's control system assures that only the amount of heat needed for that night and the next day is stored.

The ENERSTOR system is ideal for use with a central hot water system, a central forced warm air system or as a supplemental heat source for a heat pump.

The amount of storage capacity needed is calculated based on the B.T.U. heat loss of the building and with the storage capacity known, the number of ENERSTOR modules required can be determined. As a supplement to some heat pump systems only one (1) module might be required while the average central hot water system could require three (3) or four (4) modules.

DIMENSIONS



QUICK STORAGE SIZING CHART

Model No.	No. of Modules	Capacity Gals.	Shipping Weight Lbs.	HOURS OF "ON-PEAK" OPERATION (system not being charged)								
				16	15	14	13	12	11	10	9	8
ES150-1	1	150	663	9,773	10,425	11,170	12,029	13,031	14,216	15,638	17,375	19,547
ES150-2	2	300	1,316	19,546	20,850	22,340	24,058	26,062	28,432	31,276	34,750	39,094
ES150-3	3	450	1,989	29,319	31,275	33,510	36,087	39,093	42,648	46,914	52,125	58,641
ES150-4	4	600	2,652	39,092	41,700	44,680	48,116	52,124	56,864	62,552	69,500	78,188
ES150-5	5	750	3,335	48,865	52,125	55,850	60,145	65,155	71,080	78,190	86,875	97,735
ES150-6	6	900	3,978	58,638	62,550	67,020	72,174	78,186	85,296	93,828	104,250	117,282
ES150-7	7	1050	4,621	68,411	72,975	78,190	84,203	91,217	99,512	109,466	121,625	136,829
ES150-8	8	1200	5,264	78,184	83,400	89,360	96,232	104,248	113,728	125,104	139,000	156,376

FOR BUILDINGS WITH HIGHER HEAT LOSS, ADD MODULES

1. Calculations based on maximum tank temperature of 225°F. No correction factors were used for solar gain and or home internal gains. If correction factor was used, the above storage requirements would be reduced 10 to 20%.

2. KW requirements for the system are determined by the following formula:

$$(100\% \text{ design heat loss per hour}) \times (24 \text{ hrs.}) \div (\text{number of off-peak hours}) \div (3413) = \text{KW requirement}$$

STANDARD EQUIPMENT

- | | | |
|-----------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------|
| 1. A.S.M.E. boiler module(s) | 6. Automatic brass air vent (one per module) | 10. Heavy gauge baked enameled jacket |
| 2. Electrical control panel(s) | 7. Brass boiler drain | 11. Insulation package |
| 3. High limit aquastat (one per module) | 8. A.S.M.E. 30 P.S.I. relief valve | 12. Unionized manifold (multiple modules) |
| 4. Operating aquastat(s) | 9. Heating elements (up to 22 KW per module). 2-4.5 KW per module standard. | 13. Wiring harness(s) |
| 5. Pressure temperature gauge | | |

OPTIONAL EQUIPMENT

- | | |
|-------------------------------------|----------------------------------------------|
| 1. Domestic hot water interface | 3. Outdoor thermostat |
| 2. Heat pump / circulator interface | 4. Indoor / outdoor reset operating aquastat |
| 5. Additional elements | |



The Axeman-Anderson ENERSTOR boiler is finely engineered and built to meet the requirements of the A.S.M.E. Boiler and Pressure Vessel Code. Every unit is factory inspected by an inspector of a nationally recognized steam boiler inspection and insurance company and carries this stamp of approval with a registration number. Axeman-Anderson is also listed as a manufacturer with the National Board of Boiler and Pressure Vessel Inspectors. The Axeman-Anderson Company devote their efforts toward the development, perfection, design and manufacture of heating equipment. The Company holds an enviable position in the heating industry for manufacturing outstanding heating units of extremely high quality and efficiency. Its many dealers and thousands of satisfied owners will attest to its high degree of business integrity and reputation for fair dealing.