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### University Study Shows:

## Insulation Halves Fuel Bills

City	No Insulation	Mineral Wool	Annual Saving
-Atlanta	\$97.60	\$35.80	\$61.80
Dallas	\$77.50	\$28.40	\$49.10
Jacksonville, Fla.	\$38.80	\$14.20	\$24.60
New York	\$173.00	\$63.40	\$109.60
Oklahoma City	\$120.00	\$44.00	\$76.00
St. Louis	\$150.00	\$55.00	\$95.00
Pierre, S. D.	\$283.00	\$87.50	\$195.50

Table shows how insulation saves fuel dollars in house heating.

It costs more than twice as much to heat a house without insulation than it does to heat a properly insulated home, according to a study by the University of Illinois.

The study covered in seven cities representing most of the nation's climate areas. Engineering calculations were made for a one-story house containing 1,040 square feet of floor space.

The insulated houses had a 3-inch thickness of mineral wool in the walls and 4 inches in the ceiling. The control houses had no insulation at all.

The researchers' calculations showed that winter fuel bills for the insulated houses were from a third to a half of the costs of heating the non-insu-

lated homes in the study.

Estimating the cost of insulation at \$250, it was calculated that in St. Louis, for example, the home-owner would have regained this amount within three years. The annual saving in St. Louis came to \$95.

A savings also was noted in the cost of heating equipment in the insulated houses. In the St. Louis home, again, the owners would have been able to install a furnace for \$50 less than the cost of equipment required in the non-insulated house.

The study also showed that the savings in the cost of air-conditioning equipment and its operation would be considerably more than the cost of the insulation.

## Gravity Keeps Water Hot

When the legendary apple plunked down onto the head of Isaac Newton, the discoverer of gravity couldn't have realized the role this force someday would play in keeping homes supplied with a ready flow of hot water.

Water-heating engineers at the Coleman Company, Wichita, Kans., give this explanation of how gravity works in your hot water heater:

Cold water enters from the top of the tank and is pulled down a long pipe by gravity so that it flows into the tank close to the heating element at the bottom.

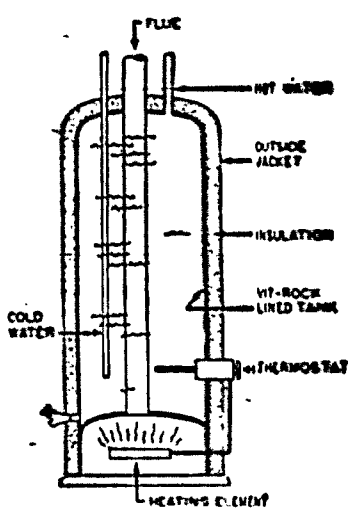
As the water is heated, it becomes slightly lighter in weight and rises to the top where it is drawn off through another pipe as you need it. This pipe branches out to hot-water faucets in bathroom, kitchen and laundry.

The tank itself consists of an outer metal jacket surrounding a layer of insulation. Inside the insulation is a lining of galvanized metal, rock, vitreous enamel, or copper. The resistance of the lining to rust and corrosion plays a big part in how long a water heater lasts.

Engineers of the Coleman Company, Wichita, Kans., say that in areas where water is even mildly corrosive a combination of rock and vitreous enamel is highly recommended.

Even the finest galvanized linings rust away in these areas. Vit-rock, a rock-like substance, is proving to be one of the most satisfactory linings. It is impervious to corrosive water.

The rock is applied in a semi-liquid state by centrifugal force. It is poured into the tank, which is then spun at 3,000 revolutions per minute. This plasters the rock evenly over the entire inner surface, providing a water-proof and rust-proof lining. The flue and heat exchanger are coated with a glassy film of vitreous enamel.



Cross-section view of a modern automatic water heater.

## Home-Owner Can Control Condensation

You wouldn't stand for damage to the interior of your home, caused by a leaky roof.

Yet there are other, less apparent sources of moisture in a house—washers, dryers, shower baths, cooking and the like—which also can cause extensive damage, but which can be controlled by the homeowner who is willing to follow a few simple rules.

Recognizing the dangers of these moisture problems, Better Homes & Gardens reports:

"Contrary to belief, insulation does not cause condensation. Insulation does not cause the paint on your house to peel, either.

"Moisture gets into your home through leaky chimneys, flashing, crumbling mortar joints, leaky gutters, damaged siding, torn and broken shingles and so on. But condensation of excessive moisture produced within your home is usually the real problem.

"To correct both problems, first mend the opening in your home where water from the outside enters. Then vent out the moisture vapor produced in the kitchen, bathroom, laundry and so on. One good way to do this is to simply open a window. Or, where extreme conditions exist, install exhaust fans in these rooms.

"Vents in the gables of your home also let moist air out. Ready-made louvers of metal and wood are available and easy to install yourself. Be sure they are large enough to meet your requirements. To figure the size vents you need in the attic, figure one square foot for each 100 square feet of floor area."

## Streamline That Old House

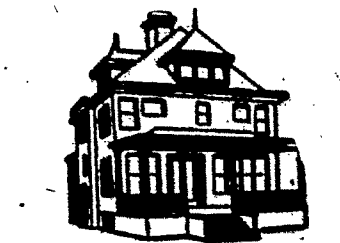
When it comes to remodeling, few men in the field have had more experience or success than Arthur B. Campen, of Peoria, Ill., a modernization consultant.

Campen, writing in Practical Builder magazine, tells some of his "secrets" in changing a tall, boxy old house into a modern-looking home. To give an old house a lower, longer look, Campen suggests:

"New attached garages are required in almost half of remodeling job. A two-car garage connected to the house by a breezeway cuts height and helps to give it a modern look.

"Careful color styling can accomplish a great deal. Put a dark roof on a tall house and paint the second floor in a deeper tone than the first floor, and you "cut" several feet from the height.

Campen recommends asphalt shingles for new roofs on remodeling jobs because of their durability and the wide choice of colors available. In making a tall house appear lower, one of the deep shades of asphalt shingles will give the roof a dark color without drabness.



Tall, boxy old house, top, gets a new, modern look, bottom, through better design and color styling. A dark asphalt shingle roof contributes most to the visual effect.

A cop stopped a motorist who was going seventy miles per hour.

Driver (innocently): Were you stopping me for speeding, Officer?

Cop (sarcastically): Oh, no, nothing like that. You're flying too low.

COURIER-JOURNAL Friday, September 14, 1956 5-A

Silence, Isn't Golden: "Foot man! He was ruined by untold wealth!"

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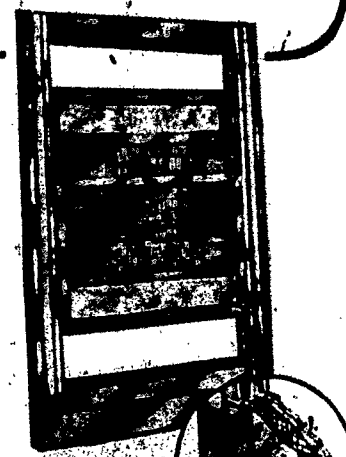
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