

**MORE SENSITIVE TO HEAT THAN HUMAN BODY**

**Ingenious thermostat works day and night**

Next time you turn up the furnace thermostat, take a good look at it. It is one of the most ingenious gadgets in the house. It is more sensitive to temperature than the human body.

Thermometers are usually installed in the living quarters of the house, often on the living room wall. All thermostats have an ordinary glass thermometer and they show the room temperature. In addition, the thermostat is equipped with a pointer and scale which is set for the desired temperature. Once set the burner will automatically maintain the temperature selected.

Exposed to changing temperatures expand or contract at different rates. If two different metals are joined together throughout their length in a flat strip and heat is applied, this "bi-metal" strip will warp out of shape. The heat-sensitive or thermosensitive metal is usually bent into a curved or U-shape in order to get a long strip into small space.

This is the operating principle of most thermostats. In heating applications, contraction of the bi-metal element, caused by falling temperature, makes an electrical contact which starts the oil burner. Expansion of the

element due to rising temperatures breaks the circuit and stops the burner. Most thermostats are arranged so that any temperature between 55 and 85 may be maintained by simple setting the dial pointer.

Earlier thermostats, many of which are still in use, normally allowed overshooting of the thermostat temperature setting, due to the lag in the heating plant.

In the summer, too, when heat is unnecessary, the fan can be used to furnish a cooling circulation of air throughout the space in which the unit is installed, and year-round comfort is possible at low cost.

A special virtue of modern unit heaters is the fact that they are especially adaptable for recreation rooms, garages and workshops which are usually located in out-of-the-way sections of the house. They are useful, too, where the present heating system is being overtaxed to heat newly finished rooms or any extra space which has been converted to living purposes.

Oiling the fan and motor regularly, and cleaning the unit of trapped dirt and lint, is about all the attention a modern unit requires.



**COMBAT HOUSING SHORTAGE**

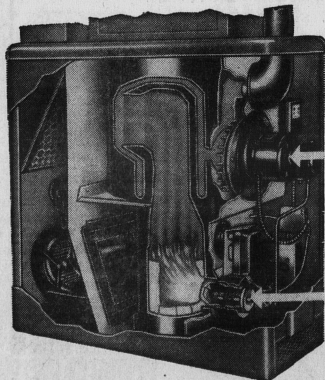
To meet an acute housing shortage likely to continue for another decade, Czechoslovak Communist planners have placed great emphasis on apartment projects. This Slovak family plays outside a typical apartment block in Bratislava. (CP Photo)

**Efficiency is trademark of quick-heat devices**

Whenever extra heat is needed in any one room of the house, there is no need to wait. Now there are several types of heaters adapted ideally for these quick-heat tasks that are highly efficient and economical. With the fan-forced circulation provided by these heaters, they are useful also for drying hair and lingerie, and are widely used in bedrooms, recreation buildings, experts advise.

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