

Windowless Houses.

DR. E. E. FREE, in an address recently delivered before the Electrical Association of New York, forecasts that before twenty years are over our heads we shall be living in houses in which windows have only an artistic value.

Sunlight lamps, artificial weather, and soundproof rooms will then be the vogue, he declares. Moreover, such houses, with their electric ventilation and their glareless illumination, in which rays are given off in controlled proportion to the sunlight, will be provided at prices well within the reach of people of moderate means.

"Such houses," Dr. Free adds, "are no dream of Utopia, but something on which construction could begin to-day if the industry decided to do so." Present-day homes, he maintains, are either too hot or too cold, too moist or too dry, too draughty or to stuffy, and the correction of all these faults along with those of improper lighting he states, are all available.

Electricity Afloat.**Comfort and Convenience.**

THE New Zealand Shipping Company have not been slow in taking advantage of all that electricity offers in the way of comfort and convenience when equipping their palatial boats, the Rangitatu and the Rangitane, which have recently made their maiden trips from Southampton.

The pantries are fitted with electric toasters, and the baker's shop, where bread, rolls, etc., are baked daily for a company of 900, with electric ovens and dough-fixing machines.

The cabins and saloons are fitted with every conceivable electric appliance that can add to the comfort of "those who go down to the sea in ships," such as softly-shaded lights (of which there are ample, both bed-head and central), electric fires, harmonising with the beautiful decorations, radiators and fans in the luxuriously-fitted cabins; and, what must be an untold boon when passing through the tropics, a system of forced draught from openings in the ceilings, which can be turned on and off at will, worked from a series of large fans in the engine-rooms.

Winches are electrically worked, electric lifts carry one from deck to deck, and exact time is kept in all public rooms by clocks electrically controlled from the bridge.

All cabins boast heating points for travelling irons, reading lamps, etc., and ironing boards, fully equipped, are available in compartments adjoining bathrooms for pressing and ironing. The luxuriant but restrained furnishings of these boats, cabins and saloons alike, must be seen to be believed.

Mrs. Jones: "I want to get three pounds of veal for chicken salad."

Butcher: "Sorry, ma'am. I have sold out of veal, but some of my customers tell me that pork is fine to use in place of veal for chicken salad."

An All-Electric Hotel Conjures Visions of Elysium before Housewives' Eyes

ALL-ELECTRIC hotel-keeping and housekeeping has been thoroughly tested at the new hotel in Yallourn. This town has sprung into existence to provide accommodation for the numerous employees of the Victorian State Electricity Commission, and it is therefore natural that the splendid hotel which bears its name should incorporate all the latest electrical devices.

The demands of a first-class hotel for instant service and unfailing success in operation have been thoroughly weighed against the possibilities of electrical execution, and, as a result, the whole of the duties in the Hotel Yallourn are mechanically performed—without fear of casualty! "Press-a-button service" is in full swing, and has proved to be of such standard excellence that even more up-to-date appliances are to be shortly installed.

Scalding water and refrigerated drinks are provided by electric power. Cooling and heating of the air are effected by the same medium. From the egg-beating operations in the kitchen to the artistic lighting fittings in the main rooms, the entire hotel is an example of what ingenious and scientific attention to detail can achieve in minimising labour, and procuring maximum utility.

No More Luke-warm Beer.

ONE of the most discouraging liquids known to man is luke-warm beer. The Hotel Yallourn has eliminated this possibility by the provision of a suitable refrigerating plant, capable of cooling draught and bottled beer and aerated waters to a temperature of 45 degrees Fah. An instantaneous cooler is in use for draught beer, and special cooling cabinets for bottled liquors. The compressor operating these coolers are half h.p. water-cooled Frigidaire and half h.p. air-cooled Frigidaire respectively. These systems are entirely automatic and electricity is the main factor in their operation.

An elaborate hot water service with a capacity of 1300 gallons, is simply controlled by a switch in the manager's room. Water heated to 160 degrees can be drawn from 100 different points over the hotel at any hour of the day or night. The whole service is thoroughly insulated with cork, and the various units are erected in convenient points at the rear of the building or above ceilings, and therefore are not an eyesore.

In the 33 bedrooms adequate lighting has been provided. Two-light fittings have been suspended over dressing tables and an additional light provided for those wishing to read in bed. The thoughtful genius at the back of this installation has provided a remarkable cloudless face mirror for use when shaving and dressing. The purpose of the electrical part of the mirror is to prevent steam condensing on its surface and obscuring the view into it. This is effected by the heat of an ordinary electric light globe fitted at the back of the mirror. The light from this is reflected in a "bull's-eye" in the mirror.

Paradise for the Cook.

THE kitchen of this hotel is a cook's paradise. Two types of double roasting and baking ranges are controlled by electricity, and a large boiling table is operated separately.

Hot meals and cold drinks appear to be the aim of the management. An efficient heating apparatus for foods, which compares favourably with the cooling apparatus for drinks, is in use. This is in the form of an electric hot closet and carving table fitted with counter-weight overhead gear for lifting off covers from prepared dishes. A large hot-water container at one side of the closet keeps vegetables heated before serving.

Cooks and housekeepers will be intensely interested in the electrical "maid of all work." This automatic kitchen aid, by the interchange of parts, cuts up vegetables, grinds coffee beans, mashes potatoes and other vegetables, polishes knives, cuts bread, is used to whip cream, as a mincing machine, and, to crown all, as an ice cream freezer. It sounds remarkably like electricity "gone mad," but it is electricity become sane. Fundamentally, the success of hotelkeeping depends on efficient service from the kitchen. Regularity of meals is essential, and where this is possible the other departments automatically fall into line. The well-regulated use of electricity is the most dependable of kitchen aids.

A refrigerator is fitted in the kitchen. This has an ice-making coil and is operated from 1-3 h.p. air-cooled Frigidaire compressor.

The motor-driven dish washer will clean, rinse, and dry upwards of 3000 pieces of glassware, crockery, and cutlery in one hour. This works automatically, from the feeding in of the articles on wooden trays until the washing-up process is quite complete.

Miracle-working Laundry.

A WASHING machine, capable of holding about 20 double sheets at one time, which boils the necessary water, blues and rinses the clothes, and does all the other irksome washing-day duties, is the laundry marvel. This branch of the work is finished off by drying cabinets, of handsome design, having rust-resisting metal rods placed step by step a few inches apart. The length of the rods in each of these cabinets is equal to about 125ft. of clothes line. The cabinets are constructed of 25-gauge galvanized sheet metal, and perfect regulation of the drying temperatures and ventilation systems is possible.

Ironing is done by electricity and a motor-driven mangle is to be installed.

The comfort of the guests and employees has been studied and ensured by the installation of ample radiators and electric fires, with the provision of a tubular electric heating system in the bar and the large public rooms.

Electric fans to war against the heat of summer, and electric clocks guaranteed correct within 30 seconds per week, have their place in the all-electric scheme of this modern hotel.

Economy Wins Out

THAT electricity is "best and cheapest" not only for lighting but also heating is shown by figures available from Britain. British municipal authorities have in their hands the erection of large blocks of workers' cottages and garden suburb schemes, and during the past 19 months, they wired for electrical installation over 24,248 dwellings. Complete blocks of houses in Bethnal Green, and large estates at Kingsway, Whittington and elsewhere, have been wired likewise. Electric power has been exploited as the most economical medium for lighting and heating, for this is the gravest consideration in the construction of municipal houses. The figures quoted include only those residences wholly constructed by municipal authorities, with a Government subsidy, and exclude those wired by any private or assisted arrangement.

Trouble-Free Hot Water

Everybody who has an electric water heating installation is satisfied with this principle of obtaining hot water.

There are, however, many heating elements giving trouble, so that greater reliability and longer life in the heating unit must prevent worry and add convenience.

The Coates Water Heater is a successful economic heating unit, and in no circumstance has it failed under fair working conditions.

With certainty of operation, the Coates Water Heater has been made in sizes to instantly fit into every recognised electrically-heated water system, and replacement by the Coates is encouraged where troubles or fractures of the elements have occurred.

Many replacements of heating units have been made, and the Coates Water Heaters have since, economically and unchangingly, operated for periods as long as two years, although, formerly, elements had broken down every few months.

Just as the closer approach of the Moon to the Earth affects the rise and fall of the tides, there are, in electric water-heating conditions, circumstances such as surging current, hardness of water, height above sea level, etc., etc., which can act adversely, or it may be the heating unit had been designed for conditions more favourable than occur in many N.Z. districts.

The Coates Water Heater takes into account all factors that may affect its working, and the construction is sufficiently robust to guarantee satisfaction.

Wholesale electrical firms are enthusiastic stockists and orders for the Coates Water Heater in standard wattages—special sizes at short notice—may be placed with your electrician, plumber or Power Board.

Manufactured by—

R. F. McCARTNEY,
34 WRIGHT ST., WELLINGTON.

To guard against the complete replacement of the Coates Water Heater, should the water tank empty by misadventure with the current on, a newly patented device to break the current is available and may be added as an extra if desired.