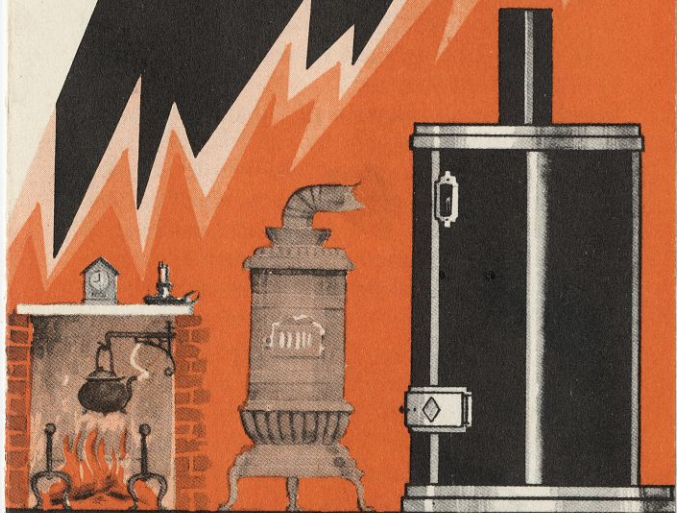


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ANTHRACITE  
INSTITUTE  
PRESENTS



A · CENTURY · OF · PROGRESS  
IN · · DOMESTIC · · HEATING

## The Automatic Anthracite Heat Machine

THE HEATING UNIT described herein is the first completely automatic combination of stoker, boiler, and ash conveyor. It is the pioneer mechanism to tap a season's supply of anthracite and remove ash outside the cellar, without the intervention of a human hand. Year 'round hot water supply for bath, kitchen, laundry, is integral. It is admirably suited to purposes of modern air conditioning, cooling and humidifying.

Effective application of automatic heating is conditioned largely by the adaptability of the fuel. On this score, the whole range of anthracite heat apparatus, from small hot water stoves to this automatic heat machine, is favored by the inherent qualities of anthracite—it is safe, sootless, smokeless, dependable.

ABOUT one century spans the first crude departure from the open hearth to the effortless automatic heat machine which was first publicly exhibited by the Anthracite Institute at the Century of Progress exposition.

Uniform heat control is not new. Thermostatic apparatus has long been available. Nor is automatic stoking a recent development.

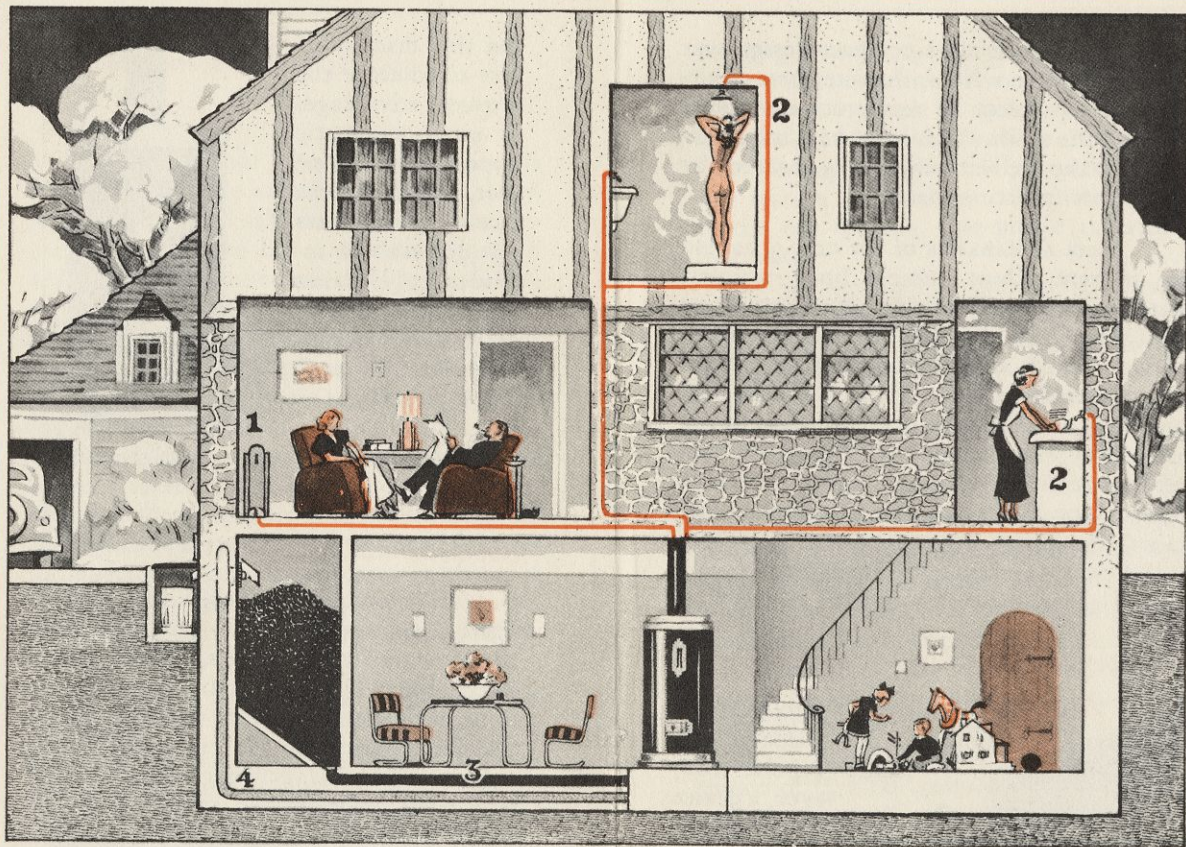
But this machine is first to combine the proved advantages of other automatic apparatus in one unit, and to add the factor of effortless ash disposal. It includes application of vertical tubular design to a domestic boiler, and its heating surfaces are self-scrubbing, maintaining a uniformly high efficiency.



## Anthracite Favors Mechanical Simplicity

SIMPLICITY of design sets this unit apart. Qualities inherent in hard coal enabled concentration on effortless, inexpensive delivery of heat. No need to complicate the mechanism with intricate safety controls: Anthracite does not explode. No problem of smudge reduction to handicap the engineers: Anthracite is sootless, odorless. No smoke threat with which to contend—the designers were enabled to adapt the machine to the single purpose of utilizing all the heat: Anthracite cannot

**HEALTHFUL HEAT UNIFORMITY • LIMITLESS HOT WATER • EFFORTLESS**



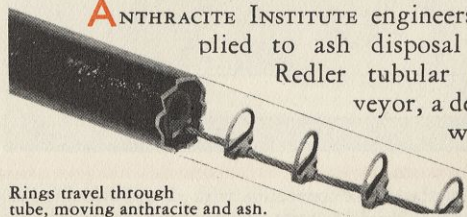
**1.**—Heat that is constant, uniform, safe, clean, odorless, silent, effortless; perfectly adapted for connection with air conditioning installation. **2.**—Hot water; unlimited, winter and summer, for bath, kitchen, laundry. **3.**—Anthracite automatically conveyed, under the floor, from any bin to heater. **4.**—Ash automatically carried, under the floor, to any point outside cellar, or to a bin within.

smoke. Finally, a more compact design was possible because with anthracite there is virtually no problem of temperature wastage through the stack: Anthracite heat is concentrated at the fire bed, where it is absorbed by the proper furnace surfaces.

**T**HE APPEARANCE of the unit is as you see it here. Clean, simple lines—stainless metal trim brightly setting off an insulating shell which can be colored to suit the scheme of your reclaimed cellar playroom, or billiard den. No mechanism is visible: Even the riser pipes are concealed in the stack. Anthracite and ash conveyors are out of sight. From bin to hopper, thence to fire pot, the passage of anthracite is automatic. Fuel moves only as needed to maintain the temperature fixed by thermostatic control. Resultant economy and responsiveness are paralleled by no other automatic heat device.

### Conveyors Are Under the Floor

**A**NTHRACITE INSTITUTE engineers applied to ash disposal the Redler tubular conveyor, a device which



Rings travel through tube, moving anthracite and ash.

has long been successful in moving other solids.

An endless steel cable slowly moves steel rings, set at intervals on the strand, through a metal tube and carries the ash with it. Anthracite is brought from coal bin to fire pot by one section of conveyor; the other section carries out the ash. One motor actuates all functions.

The accompanying cutaway illustration shows the construction of the Redler conveyor. Tube diameter is less than three inches, and it lies under the cellar floor.

### Anthracite Institute Protects Consumer

**T**HE AMERICAN anthracite industry, through the Anthracite Institute and its facilities, provides laboratory service through which any apparatus employed in the consumption of anthracite may be given scientific test. After rigid trial in laboratory and field proves the apparatus worthy, the Anthracite Institute awards its Seal of Approval. That diamond shaped symbol is the consumers' assurance that the anthracite industry freely entrusts the good name of its fuel in the keeping of the approved device that burns it. Look for it on the apparatus. A list of approved anthracite equipment appears on the back cover.

# APPROVED EQUIPMENT



## **BLOWER SYSTEM**

Auto Draft Blowers  
Coppus Blower  
Even-Heat  
Koalamatic Blower  
Sturtevant  
Vacu-Draft  
Vulcano

## **COAL CONVEYOR**

MotorStokor Conveyor  
Redler Conveyor

## **THERMOSTATIC CONTROLS**

Afco All Electric Heat  
Regulator  
American Radiator  
Mercoild Switch  
Cook Heat Control  
De-Luxe Electric Janitor  
Electric Janitor  
General Electric  
Thermostat  
Master Thermostatic  
Controls  
Minneapolis-Honeywell  
Regulator  
Pioneer Heat Regulator  
Sheer 41-W Safety  
Regulator

## **SERVICE WATER HEATING SYSTEMS**

Bengal Water Heater  
B & G Heater  
Electric Furnace-Man  
Excelso Water Heaters  
Paracoil Submerged  
Storage Water Heaters  
Taco Heater  
Thermo Chek  
Cheney Bucket-a-Day

## **MAGAZINE FEED BOILERS**

Newport Magazine Feed  
Boiler  
Spencer Boiler  
Weil-McLain Self-Feed  
Boiler

## **COOKING RANGE**

Jeddo-Highland  
Heaterange

## **VACUUM FURNACE CLEANERS**

Kent  
Sturtevant  
Super-Suction  
Tornado Furnace and  
Boiler Cleaner

## **TESTING EQUIPMENT**

Horrocks Coalometer

## **AUTOMATIC STOKERS**

Auto Coala Stoker  
Beckley Anthracite  
Burner  
Electric Furnace-Man  
Iron Fireman  
Losch Automatic  
Furnace  
MotorStokor  
Stowe Type "R" Stoker  
Super Stoker

## **SPACE (OR PARLOR) HEATERS**

Griswold Heater  
Heatrola Cabinet  
Heaters

## **MISCELLANEOUS**

Conco Valve  
Draft-A-Justor

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**ANTHRACITE INSTITUTE**

19 RECTOR STREET, NEW YORK, N. Y.