

U. S. DEPARTMENT OF COMMERCE  
NATIONAL BUREAU OF STANDARDS  
Washington

Letter  
Circular  
LC 648  
(Superseding  
LC 284)

HOME HEATING PROBLEMS:  
List of Publications and Articles  
(Revised to May 23, 1941)

GENERAL INFORMATION

Some of the publications in this list have appeared in the regular series of the National Bureau of Standards and other governmental agencies. In the case of these publications where the price is stated, they can be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C. Remittances should be made either by coupons obtainable from the Superintendent of Documents in sets of 20 for \$1.00 and good until used, or by check or money order payable to the Superintendent of Documents, Government Printing Office, Washington, D. C., and sent to him with order.

1. In this list letters with serial numbers are used to designate Government publications.

U. S. DEPARTMENT OF COMMERCE  
National Bureau of Standards

BH - Building and Housing  
publication  
CS - Commercial Standard

H - Handbook  
LC - Letter Circular  
(mimeographed)  
M - Miscellaneous publication  
R - Simplified Practice  
Recommendation

Bureau of Foreign and Domestic  
Commerce

Rep- Report

U. S. DEPARTMENT OF AGRICULTURE  
Bureau of Agricultural Chemistry  
and Engineering

C - Circular  
F - Farmers' Bulletin  
T - Technical Bulletin

U. S. DEPARTMENT OF THE INTERIOR  
Bureau of Mines

HFH- Handbook

FEDERAL HOUSING ADMINISTRATION

FHA- Federal Housing  
Administration form

II. For papers published by nongovernmental agencies, the name and address of the publisher and the price are given.

III. In the case of magazine articles, only the name of the periodical is listed. The Bureau cannot supply copies of magazines or reprints from them nor can it furnish information as to their availability or price. Such articles can, however, be consulted at most libraries.

I. FEDERAL GOVERNMENT PUBLICATIONS

	<u>Series</u>	<u>Price</u>
<u>Department of Commerce (National Bureau of Standards)</u> <u>Washington, D. C.</u>		
Recommended minimum requirements for small-dwelling construction (1932) 107 pages (Report of the Building Code Committee of the Department of Commerce. Includes minimum requirements for chimney and fireplace construction). . . . .	BH 18	10¢
Care and repair of the house (1931) 121 pages (Contains a chapter on repairs and maintenance of heating and ventilating equipment). . . . .	BH 15	15¢
Effect of soot on the rating of an oil-fired heating boiler (1940) 4 pages (This paper directs attention to important factor to be considered in adjustment or testing of heating boilers or furnaces and in the design of chimneys). . . . .	BMS 54	10¢
A survey of humidities in residences (1940) 6 pages (Observations made in 26 localities in northern part of the United States by students under supervision of college physics departments) . . . . .	BMS 56	10¢
Simplification of sizes and terminology of high volatile bituminous coal. . . . .	M 113	5¢
Painting of steam and hot-water radiators . . . . .	LC 445	Free
Domestic heating and air conditioning . . . . .	LC 596	"
Range boilers and expansion tanks. . . . .	R 8-29	10¢
Domestic burners for Pennsylvania anthracite (underfeed type) . . . . .	CS 48-40	5¢
Fuel oils . . . . .	CS 12-40	5¢
Oil burners; automatic mechanical draft . . . . .	CS 75-39	5¢

Department of Commerce  
Bureau of Foreign and Domestic Commerce  
Washington, D. C.

Series      Price

Forest Products Division

How to judge a house. (1931) .85 pages  
(Contains a section on heating systems) . . . . . Rep No.17 10¢

Electrical Division

Condensed list of sources of information on  
air conditioning. . . . . Free

Department of Agriculture  
Washington, D. C.

Heating the farm home (1933) 17 pages  
(The requirements that should be met and the  
characteristics of different types of heating  
systems are discussed, and advice is given on  
selecting heating plants for farmhouses and  
on ways of conserving heat) . . . . . 1698 F 5¢

Oil burners for home heating (1936) 27 pages  
(Based on the results of tests of a number of  
oil burners of different designs to give the  
information necessary for the home owner to  
make his own selection of an oil burner). . . . . 406 C 5¢

A study of the oil burner as applied to domestic  
heating (1929) 44 pages (Deals with the  
more technical phases of the investigation  
described in Circular No. 406 - see above). . . . . 109 T 10¢

Construction of chimneys and fireplaces (1933)  
18 pages. (Designed to give the householder  
and prospective builder a working knowledge  
of the principles to be observed in planning  
and building these important parts of the  
house). . . . . 1649 F 5¢

Camp stoves and fireplaces (Forest Service: 1937)  
91 pages. (Information concerning the location,  
design, construction, and use of outdoor  
facilities) . . . . . \$1.50

Department of the Interior (Bureau of Mines)  
Washington, D. C.

Questions and answers for the home fireman  
(1933) 34 pages. . . . . HTH 5¢

Mechanical equipment for the home (Technical Bulletin No. 6) (1937) (Contains chapters on heating and air conditioning) . . . . .	FHA 2299	5¢
Principles of planning small houses (Technical Bulletin No. 4) (1936) (Contains a section on heating) . . . . .	FHA 2219	10¢

II. OTHER PUBLICATIONS

The following publications relating to home heating problems may be obtained from the issuing organizations:

Bureau of Mines  
Mines and Geology Branch  
Department of Mines and Resources, Ottawa, Canada

Comparative tests of various fuels when burned in a domestic hot-water boiler (No. 705: 1929 ed) . . . . .		20¢
Comparative tests of various fuels when burned in a domestic hot-water boiler (No. 802: 1940 ed) . . . . .		25¢
American Society of Heating and Ventilating Engineers 51 Madison Avenue, New York, N. Y. Guide - published annually (Contains design and specification data useful in the planning and construction of modern heating and ventilating installations) . . . . .		\$5.00
American Gas Association 420 Lexington Avenue, New York, N. Y. Comfort heating. . . . .		\$2.00
Gas and electricity for domestic cooking and heating purposes. . . . .		Free
Better Homes in America Purdue Research Foundation, West Lafayette, Ind. Why conditioned air in houses improves human comfort (Home Information No. 25). . . . .		15¢
How air in houses is conditioned by modern equipment (Home Information No. 26). . . . .		15¢
Clay Products Association 111 West Washington Street, Chicago, Ill. How to build a safe chimney. . . . .		Free
The chimney. . . . .		"
A standard ordinance for chimney construction. . . . .		"

	<u>Price</u>
Eastern Clay Products Association 906 Colonial Trust Building, Philadelphia, Pa. Flues and flue linings with related data on chimneys and fireplaces (Includes data for calculating sizes of flues, determining heights of chimneys, etc.) . . . . .	Free
Heating, Piping, and Air Conditioning Contractors National Association 1250 Sixth Avenue, New York, N. Y. Net load recommendations for heating boilers . . . . . Engineering standards. . . . .	\$1.50 5.00
National Association of Stove Manufacturers P. O. Station B, Buffalo, N. Y. Extracts from various publications respecting chimneys, drafts, etc. . . . .	10¢
National Board of Fire Underwriters 85 John Street, New York, N. Y. A standard ordinance for chimney construction (Suitable for use in cities and towns of any size) . . . . .	Free
National Fire Protection Association 60 Batterymarch Street, Boston, Mass. Make your chimneys safe . . . . . Chimneys, flues, and fireplaces; how to build them . . . . .	Free "
National Warm Air Heating and Air Conditioning Association 145 Public Square, Cleveland, Ohio Standard gravity code (For installation of gravity warm-air heating systems in residences . . . . . Practical code (For installation of mechanical warm- air heating; non-technical) . . . . . Technical code (For installation of mechanical warm- air heating; technical) . . . . . Yardstick for the evaluation of a forced warm-air heating system . . . . .	25¢ 25¢ 50¢ 25¢
Structural Clay Products Institute 1756 K Street, N. W., Washington, D. C. The heart of the home. . . . .	25¢
Underwriters' Laboratories, Inc. 207 E. Ohio Street, Chicago, Ill. List of inspected gas, oil, and miscellaneous appliances (Presents names of appliances that have been subjected to tests with particular reference to fire safety). . . . .	Free

### III. MAGAZINE ARTICLES

The following magazine articles relating to home heating problems may be consulted at local libraries:

- Fireplace design. American Architect - August 1936 - page 86.  
(Details, dimensions, flue sizes, etc.)
- Automatic heating and air conditioning. American Architect -  
January 1938 - pages 69-83. (Systems, equipment, and design.)
- Outdoor grilles and barbecue fireplaces. American Builder -  
August 1939 - page 70. (Photographs and drawings.)
- Principles of central heating systems. American Builder -  
September 1939 - page 66. (A review of relative advantages  
of popular types.)
- A little portfolio of fireplaces. American Home - December 1932 -  
page 22. (Photographs of 11 types.)
- Illustrations and details of several kinds of outdoor fireplaces  
and kitchens. American Home - June 1935 - pages 32-35.
- Cabin fireplaces that really do work. American Home - February 1936 -  
page 52. (Illustrations and diagrams.)
- Where there's smoke there's no fire. American Home - February 1939 -  
page 89. (Fireplace design; cross-section of opening.)
- Heating the temporary home. American Home - February 1939 - page 32.  
(Illustrations and descriptions of small heating units for cabins,  
cottages, etc.)
- Heating the small home. Architectural Record - August 1935 - page 131.  
(Check list covering insulation, heating methods, fuels, etc.)
- Comparative analysis of apartment-house heating systems. Architectural  
Record - October 1937 - page 140.
- Pictures of 25 different fireplaces. Architectural Record - July 1938 -  
pages 85-92.
- Remoulding the fireplace. Building Modernization - March 1935 - page 16.  
(Chart for determining openings, illustrations, and drawings.)
- Chimney fires and chimney construction. Building Standards Monthly -  
(Pacific Coast Building Officials Conference) - December 1938 - page 4.

A discussion of chimneys and flues. Building Standards Monthly -  
September 1939 - page 7. (Tables and diagrams.)

Fireplace design. Building Supply News - June 1936 - page 37. (Cross-  
section and tables of dimensions.)

How to plan and build efficient fireplaces. Building Supply News -  
July 1938 - pages 40-45. (Fundamental principles, dimensions, cross-  
sections, etc.)

The construction of your fireplace. House Beautiful - April 1932 -  
page 294. (Contains diagrams.)

What's new in heating? National Real Estate Journal - September 1937 -  
page 46. (Brief review of heating installation costs and the more  
recent developments in equipment and accessories.)

Details of chimneys and fireplaces. Pencil Points - February and  
April 1933.

Outdoor fireplaces. Pencil Points - February 1937 - page 117.  
(Half elevation, section, and plans.)

