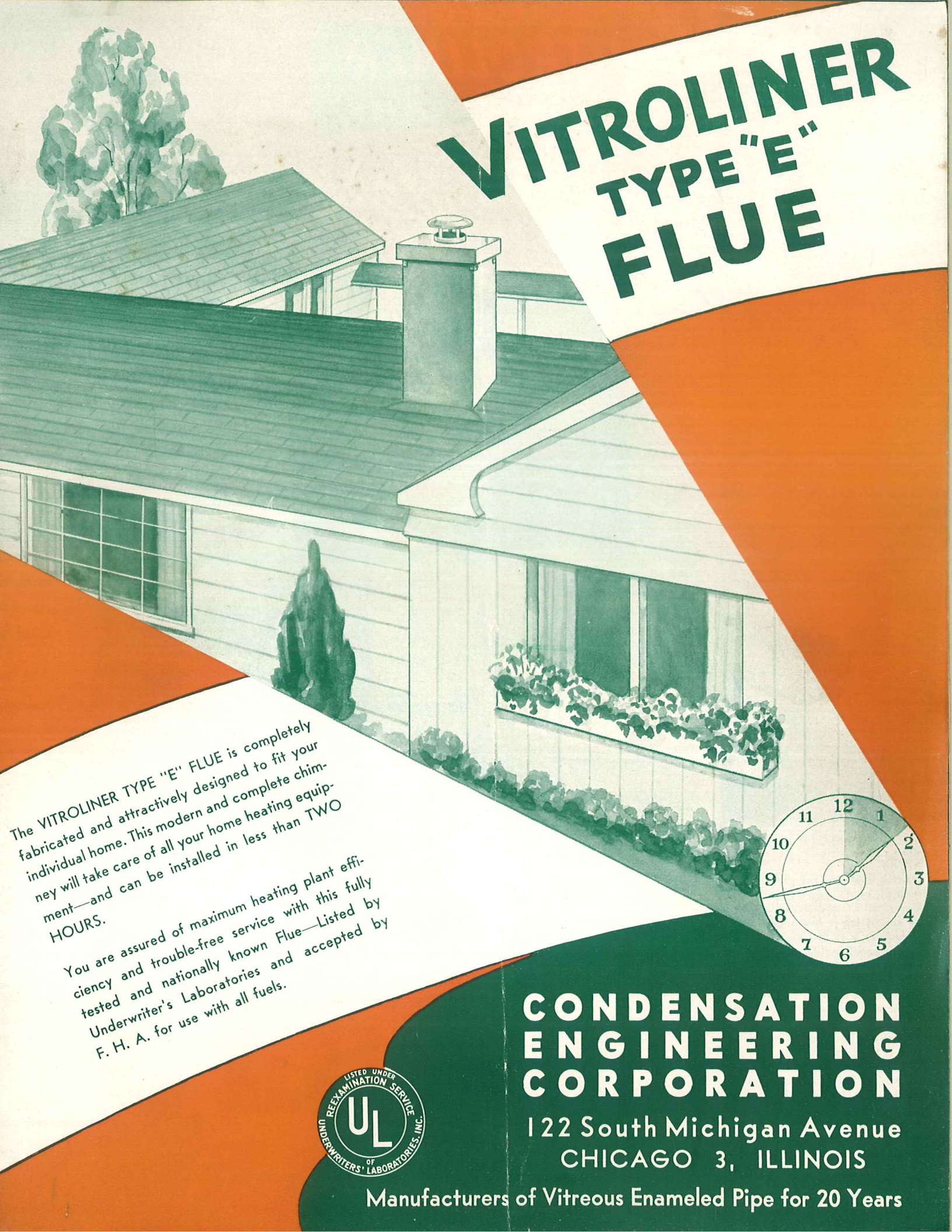


# VITROLINER TYPE "E" FLUE



The VITROLINER TYPE "E" FLUE is completely fabricated and attractively designed to fit your individual home. This modern and complete chimney will take care of all your home heating equipment—and can be installed in less than TWO HOURS.

You are assured of maximum heating plant efficiency and trouble-free service with this fully tested and nationally known Flue—Listed by Underwriter's Laboratories and accepted by F. H. A. for use with all fuels.



**CONDENSATION  
ENGINEERING  
CORPORATION**

122 South Michigan Avenue  
CHICAGO 3, ILLINOIS

Manufacturers of Vitreous Enameled Pipe for 20 Years

# VITROLINER

the Superior Flue

Trade Mark Registered

## The Modern Type "E" Flue

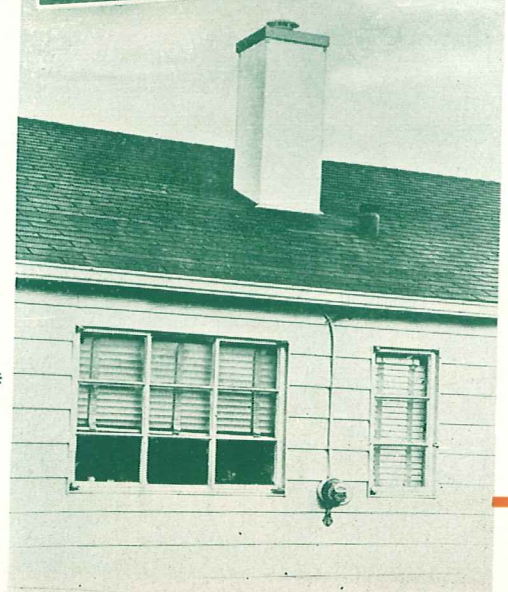
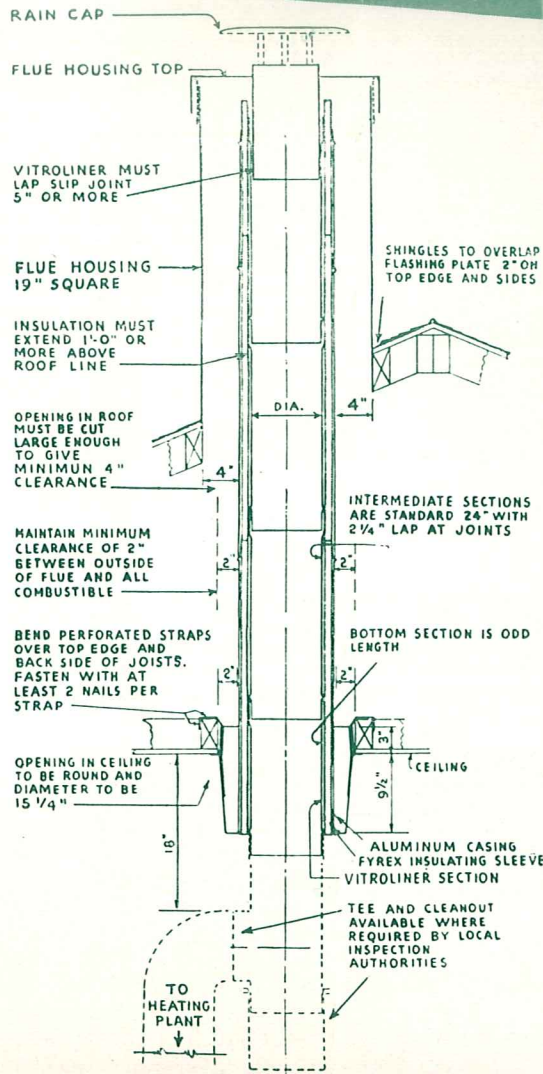
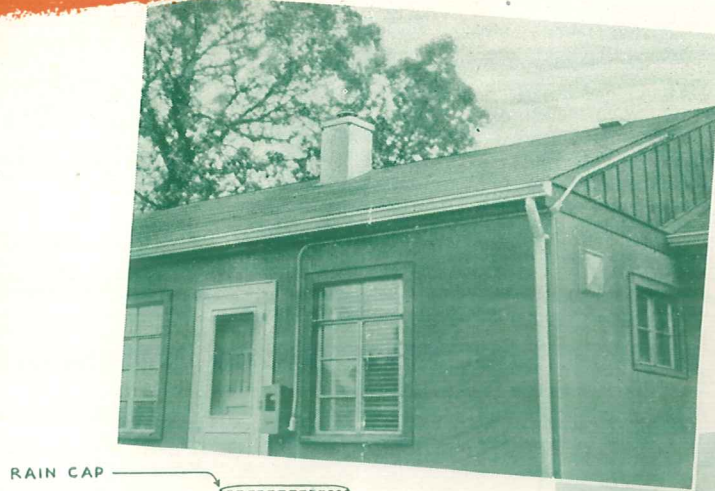
### Time Test

The Vitroliner Type "E" Flue, product of engineering development on the ground of engineering development in Army and Navy construction—patented by the Underwriters Laboratories in this period and have been PRO



#### QUALITY CONSTRUCTION

Above is illustrated the patented construction of this revolutionary flue. The weight is supported entirely from the ceiling joists — the flue weighs approximately 10 lbs. per ft., making the average flue 100 lbs. The acid-resisting inner flue is manufactured from heavy gauge, high quality steel, coated inside and out with two coats special acid-resisting vitreous enamel fused on at 1550° F. Special non-combustible insulation in convenient tubes is placed around the inner flue and protected by rust-resisting aluminum casing. The flue housing on the outside which is made of galvanized sheet steel has a trim appearance and can be attractively painted. The flue can be located directly above the heating plant in any part of the house.



The Type buildings from the coal, oil or construction used for

Now available a thousand-dimensions

The initial It is light in is no maintenance the roof. For efficient surface all quickly. Go heating plant harmful and this the Vit

# refabricated Flues

## ed for All Fuels . . .

ularly known as the packaged chimney, has a ten year back-  
ent. This modern flue was successfully used during the war in  
assed tests by the Bureau of Standards and listed as acceptable  
s for all fuels. Over 85,000 Vitroliner Flues have been installed  
OVEN satisfactory in every respect.

### CONSTRUCTION REQUIREMENTS

e "E" Flue is designed to be used in bungalows or in single story  
where the heating plant is on the first floor and the flue extends  
ceiling thru an unoccupied attic space. In this type construction  
or gas can be used. This flue is also designed for any other type  
tion (multiple floors or basement installation) when gas only is  
fuel.

### AVAILABLE IN ANY QUANTITY

able for individual homes and large building projects. You can order one or  
d—each serves as a complete chimney—each is designed to fit the exact  
s of the homes it is being installed on.

### ECONOMICAL AND EFFICIENT

cost of the Type "E" Vitroliner flue is highly competitive to other types.  
n weight and can be installed in less than two hours. Properly installed, there  
tenance expense except an occasional painting of the metal housing above

ncy and performance, the Vitroliner Flue is unsurpassed. The smooth inner  
lows free passage of combustion gases. The metal liner heats and cools  
ood drafts are assured and draft losses are held to a minimum when the  
ant is not in operation. The Vitroliner Flue is designed to withstand all the  
nd destructive properties created by products of combustion. Because of  
troliner Flue has a LONG LIFE.



THE VITROLINER PATENTED EXPANSION JOINT ILLUSTRATED ABOVE PROVIDES FOR TEMPERATURE CHANGES. NOTE THE UNIQUE CONSTRUCTION ALLOWING ATTIC VENTILATION.

## VITROLINER FEATURES

- LOWER INITIAL COST
- QUALITY BUILT OF FINEST MATERIALS
- INSTALLED IN TWO HOURS
- NO MAINTENANCE PROBLEMS
- LIGHT WEIGHT
- LONG LIFE
- IMPROVES HEATING EQUIPMENT PERFORMANCE
- SAVES FLOOR SPACE
- SHIPPED COMPLETE IN A PACKAGE

TESTED AND PROVED SUCCESSFUL THRU TEN YEARS OF SERVICE

CONDENSATION ENGINEERING CORPORATION



# Simple and Easy Installation

## Can be Installed in Less Than Two Hours

The Vitroliner Flue comes complete in a package for assembling in the following manner:

Insert the male end of the section through hole in bottom of flue support. The bead of Vitroliner section will now rest on bottom of flue support, and male end will project through hole. Next, slide the FYREX insulating sleeve over Vitroliner Section and then slide outer aluminum casing over insulation with female end down.

Insert all intermediate sections as illustrated. First the Vitroliner Section, male end down, then the FYREX insulation sleeve, and last the outer aluminum casing, female end down. Top inner Vitroliner Section is next put together in same manner as previous section. This section will extend a minimum of 5 inches over the slip joint.

Lift these assembled sections and push through hole in ceiling until rim of flue support is flush against ceiling. Crimped section will extend into attic. Cut hole in ceiling, 15" in diameter, so that rim of flue support rests flush against ceiling as illustrated.

Nail the 4 perforated straps securely over joists drawing flue support firmly against ceiling. A rectangular hole in roof (previously cut) must be 19" square to give minimum 4-inch clearance between all sides of opening and outer aluminum casing.

The flue housing is dropped down in position so that flashing plate rests flush on roof boards. The flue housing top section is bolted securely to flue housing which completes the erection of the Vitroliner flue. The slip joint of flue housing top fits INSIDE of top inner Vitroliner section.

OUR ENGINEERING DEPARTMENT CAN HELP SOLVE YOUR CHIMNEY PROBLEMS AND IS ALWAYS AT YOUR SERVICE — WRITE TODAY.



# CONDENSATION ENGINEERING CORPORATION

122 South Michigan Avenue  
CHICAGO 3, ILLINOIS

Manufacturers of Vitreous Enamelled Pipe for 20 Years

# INSTALLATIONS INSTRUCTIONS FOR (TYPE E) VITROLINER FLUES

(patented)  
Manufactured by  
**CONDENSATION ENGINEERING  
CORPORATION**  
CHICAGO 3, ILL.  
122 SOUTH MICHIGAN AVENUE  
Telephone HARrison 8388

Listed by Underwriters  
Laboratories Inc.  
for all types of fuel.



Showing the component parts of the Vitroliner assembly laid out in correct position for erection

A - Raincap

C - Flue Housing

E - FYREX Insulation

G - Flue Support

B - Flue Housing Top

D - Aluminum Casing

F - VITROLINER PIPE

See opposite page for details

## VITROLINER FLUES ARE EASILY AND SIMPLY INSTALLED BY FOLLOWING THE 6 STEPS PICTURED BELOW. WITH THIS PROCEDURE THE INSTALLATION WILL BE ACCOMPLISHED IN MINIMUM TIME AND EFFORT. (THE VITROLINER FLUE CAN BE DEMOUNTED BY REVERSING THE OPERATIONS.)

1. Insert the male end of the Vitroliner section through hole in bottom of flue support as illustrated. The bead of Vitroliner section will now rest on bottom of flue support, and male end will project through hole approximately 2 1/4".

Next, slide insulating sleeve over Vitroliner Section and then slide outer aluminum casing over insulation with female end down.

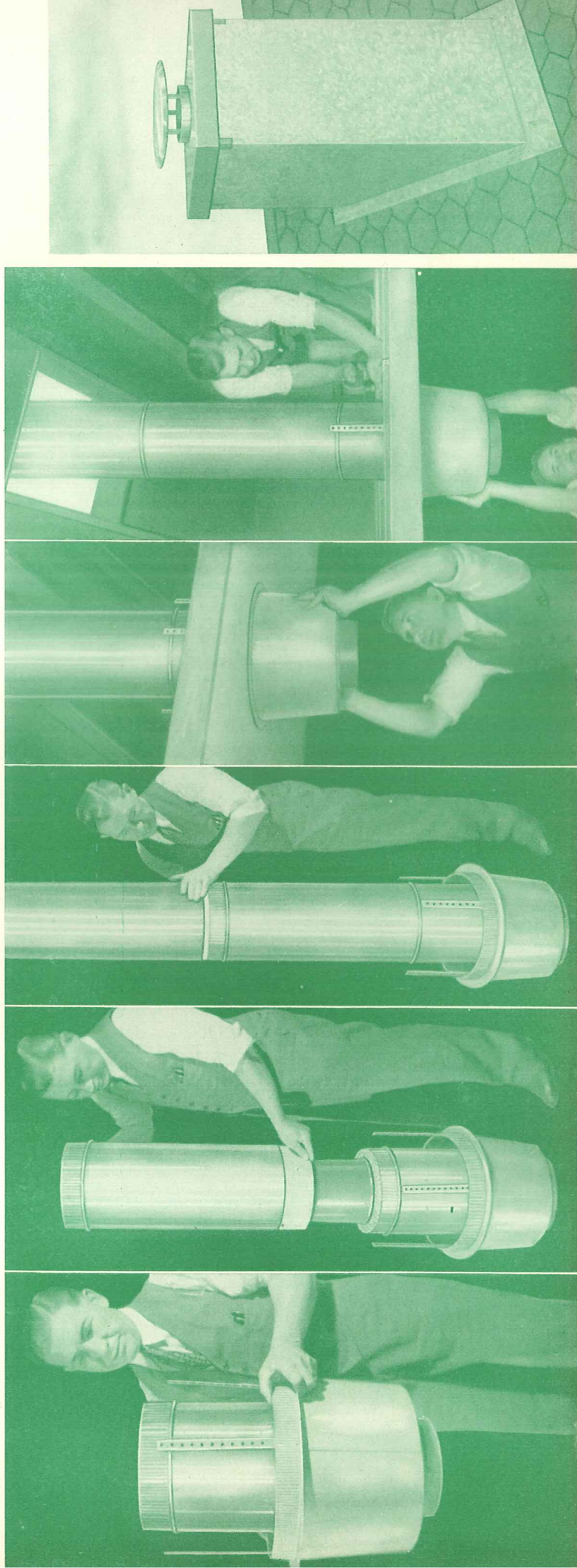
3. Top inner Vitroliner Section is next put together in same manner as previous section. This section will extend a minimum of 5 inches over the slip joint. It is important that this last intersection laps over the slip joint on the flue housing top.

4. Lift these assembled sections and push through hole in ceiling until rim of flue support is flush against ceiling. Crimped section will extend into attic approximately 3 inches. Cut hole in ceiling so that rim of flue support rests flush against ceiling as illustrated.

5. Nail the 4 perforated straps securely over joists drawing flue support firmly against ceiling. A rectangular hole in roof (previously cut) must be large enough to give minimum 4-inch clearance between all sides of opening and outer aluminum casing.

6. Slip joint of flue housing top fits INSIDE of top inner Vitroliner section. The flue housing which completes the erection of the Vitroliner flue. Note: Roofing should extend over flashing two inches on top and two sides. Bottom edge of flashing plate overlaps the shingles two inches.

Important — You must have 4" minimum clearance.



FOR QUOTATION  
FILL IN FOLLOWING DIMENSIONS

A \_\_\_\_\_ ROOF PITCH \_\_\_\_\_  
 B \_\_\_\_\_ NO. OF FLUES  
 REQUIRED \_\_\_\_\_  
 C \_\_\_\_\_  
 DIA. \_\_\_\_\_

RAIN CAP

FLUE HOUSING TOP

VITROLINER MUST  
LAP SLIP JOINT  
5" OR MORE

FLUE HOUSING  
19" SQUARE

INSULATION MUST  
EXTEND 1'-0" OR  
MORE ABOVE  
ROOF LINE

OPENING IN ROOF  
MUST BE CUT  
LARGE ENOUGH  
TO GIVE  
MINIMUM 4"  
CLEARANCE

MAINTAIN MINIMUM  
CLEARANCE OF 2"  
BETWEEN OUTSIDE  
OF FLUE AND ALL  
COMBUSTIBLE

BEND PERFORATED STRAPS  
OVER TOP EDGE AND  
BACK SIDE OF JOISTS.  
FASTEN WITH AT  
LEAST 2 NAILS PER  
STRAP

OPENING IN CEILING  
TO BE ROUND AND  
DIAMETER TO BE  
15 1/4"

TEE AND CLEANOUT  
AVAILABLE WHERE  
REQUIRED BY LOCAL  
INSPECTION  
AUTHORITIES

SHINGLES TO OVERLAP  
FLASHING PLATE 2" ON  
TOP EDGE AND SIDES

12" ?  
ROOF PITCH

DIA. 4"

INTERMEDIATE SECTIONS  
ARE STANDARD 24" WITH  
2 1/4" LAP AT JOINTS

BOTTOM SECTION IS ODD  
LENGTH

CEILING

ALUMINUM CASING  
FYREX INSULATING SLEEVE  
VITROLINER SECTION

CONDENSATION ENGINEERING CORP.  
122 S. MICHIGAN AVE. CHICAGO 3, ILL. PHONE HARRISON 8388

VITROLINER FLUE  
TYPE "E"  
PATENTED

		REVISIONS	BY	DATE	DR'WG NO
BY	CH KD				

FOR QUOTATION  
FILL IN FOLLOWING DIMENSIONS

A \_\_\_\_\_ ROOF PITCH \_\_\_\_\_  
 B \_\_\_\_\_ NO. OF FLUES  
 REQUIRED \_\_\_\_\_  
 C \_\_\_\_\_  
 DIA. \_\_\_\_\_

RAIN CAP

FLUE HOUSING TOP

VITROLINER MUST  
LAP SLIP JOINT  
5" OR MORE

FLUE HOUSING  
19" SQUARE

INSULATION MUST  
EXTEND 1'-0" OR  
MORE ABOVE  
ROOF LINE

OPENING IN ROOF  
MUST BE CUT  
LARGE ENOUGH  
TO GIVE  
MINIMUM 4" CLEARANCE

MAINTAIN MINIMUM  
CLEARANCE OF 2"  
BETWEEN OUTSIDE  
OF FLUE AND ALL  
COMBUSTIBLE

BEND PERFORATED STRAPS  
OVER TOP EDGE AND  
BACK SIDE OF JOISTS.  
FASTEN WITH AT  
LEAST 2 NAILS PER  
STRAP

OPENING IN CEILING  
TO BE ROUND AND  
DIAMETER TO BE  
15 1/4"

TEE AND CLEANOUT  
AVAILABLE WHERE  
REQUIRED BY LOCAL  
INSPECTION  
AUTHORITIES

SHINGLES TO OVERLAP  
FLASHING PLATE 2" ON  
TOP EDGE AND SIDES

12" ?  
ROOF PITCH

DIA.

INTERMEDIATE SECTIONS  
ARE STANDARD 24" WITH  
2 1/4" LAP AT JOINTS

BOTTOM SECTION IS ODD  
LENGTH

CEILING

ALUMINUM CASING  
FYREX INSULATING SLEEVE  
VITROLINER SECTION

CONDENSATION ENGINEERING CORP.  
122 S. MICHIGAN AVE. CHICAGO 3, ILL. PHONE HARRISON 8388

VITROLINER FLUE  
TYPE "E"  
PATENTED

		REVISIONS	BY	DATE	DR'W'G NO.
BY	CHKD				

# LIST PRICES OF THE VITROLINER TYPE "E" FLUE

## A COMPLETE CHIMNEY IN A PACKAGE

EFFECTIVE MARCH 15, 1948

"B" DIMENSIONS	6" DIAMETER FLUE						7" DIAMETER FLUE						8" DIAMETER FLUE					
	"C" DIMENSIONS						"C" DIMENSIONS						"C" DIMENSIONS					
	8" or Less	9" 1'-3"	1'-4" 2'-0"	2'-1" 3'-0"	3'-1" 4'-8"	4'-9" 6'-6"	8" or Less	9" 1'-3"	1'-4" 2'-0"	2'-1" 3'-0"	3'-1" 4'-8"	4'-9" 6'-6"	8" or Less	9" 1'-3"	1'-4" 2'-0"	2'-1" 3'-0"	3'-1" 4'-8"	4'-9" 6'-6"
2'-0" to 2'-3"	\$39.50	\$40.50	\$42.50	\$44.50	\$46.50	\$50.50	\$41.50	\$42.50	\$44.50	\$46.50	\$48.50	\$52.50	\$43.25	\$44.25	\$46.25	\$48.25	\$50.25	\$54.25
2'-3" to 2'-6"	42.25	43.25	45.25	47.25	49.25	53.50	44.75	45.75	47.75	49.75	51.75	55.75	46.75	47.75	49.75	51.75	53.75	57.75
2'-6" to 3'-3"	42.75	43.75	45.75	47.75	49.75	53.75	45.25	46.25	48.25	50.25	52.25	56.25	47.25	48.25	50.25	52.25	54.25	58.25
3'-3" to 3'-6"	43.25	44.25	46.25	48.25	50.25	54.25	46.00	47.00	49.00	51.00	53.00	57.00	48.00	49.00	51.00	53.00	55.00	59.00
3'-6" to 4'-0"	45.00	46.00	48.00	50.00	52.00	56.00	48.25	49.25	51.25	53.25	55.25	59.25	50.50	51.50	53.50	55.50	57.50	61.50
4'-0" to 4'-3"	46.25	47.25	49.25	51.25	53.25	57.25	50.00	51.00	53.00	55.00	57.00	61.00	52.00	53.00	55.00	57.00	59.00	63.00
4'-3" to 5'-0"	48.25	49.25	51.25	53.25	55.25	59.25	52.50	53.50	55.50	57.50	59.50	63.50	54.50	55.50	57.50	59.50	61.50	65.50
5'-0" to 5'-3"	49.00	50.00	52.00	54.00	56.00	60.00	53.25	54.25	56.25	58.25	60.25	64.25	55.50	56.50	58.50	60.50	62.50	66.50
5'-3" to 5'-9"	51.50	52.50	54.50	56.50	58.50	62.50	55.50	56.50	58.50	60.50	62.50	66.50	58.25	59.25	61.25	63.25	65.25	69.25
5'-9" to 6'-3"	52.50	53.50	55.50	57.50	59.50	63.50	56.50	57.50	59.50	61.50	63.50	67.50	60.00	61.00	63.00	65.00	67.00	71.00
6'-3" to 6'-9"	54.00	55.00	57.00	59.00	61.00	65.00	58.50	59.50	61.50	63.50	65.50	69.50	62.00	63.00	65.00	67.00	69.00	73.00
6'-9" to 7'-9"	57.00	58.00	60.00	62.00	64.00	68.00	62.50	63.50	65.50	67.50	69.50	73.50	66.00	67.00	69.00	71.00	73.00	77.00
7'-9" to 8'-9"	59.00	60.00	62.00	64.00	66.00	70.00	64.75	65.75	67.75	69.75	71.75	75.75	69.00	70.00	72.00	74.00	76.00	80.00
8'-9" to 9'-3"	61.25	62.25	64.25	66.25	68.25	72.25	67.00	68.00	70.00	72.00	74.00	78.00	71.25	72.25	74.25	76.25	79.25	83.25
9'-3" to 9'-9"	63.75	64.75	66.75	68.75	70.75	74.75	70.00	71.00	73.00	75.00	77.00	81.00	74.50	75.50	77.50	79.50	82.50	86.50
9'-9" to 10'-0"	64.75	65.75	67.75	69.75	71.75	75.75	71.00	72.00	74.00	76.00	78.00	82.00	75.50	76.50	78.50	80.50	83.50	87.50

To determine price of flue, first select "B" dimension at left. Then in the "C" dimension column under the Diameter Size read the complete price. No other figuring necessary. To determine "B" and "C" dimensions, see reverse side.

The price of a flue as determined by the "B," "C" and "Diameter" dimension covers complete flue from 9 1/2" below ceiling to approximately 2' above peak of the roof.

When ordering, send quotation dimensions shown on reverse side of price list and a flue will be made to fit the exact dimensions.

Quantity Discounts to Contractors and Builders

1 to 4 Flues	5%
5 to 49 Flues	10%
50 to 99 Flues	15%
100 or More	20%

Shipping weight less than 10 lbs. per foot.

INSTALLATION TIME APPROXIMATELY 2 MAN-HOURS PER FLUE

ALL PRICES F.O.B. CHICAGO, ILLINOIS

Subject to Change Without Notice

NOTE:  
Flues with a "C" Dimension of More Than 6'-6" or Flat Roof Flue Figured Special.



**CONDENSATION ENGINEERING CORPORATION**  
122 SO. MICHIGAN AVENUE  
HARRISON 8388  
CHICAGO 3, ILLINOIS