

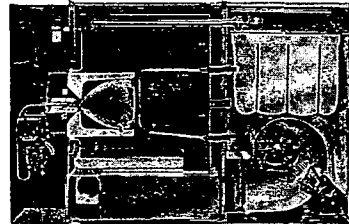
Gar Wood Industries, Inc.

AIR CONDITIONING DIVISION

Gar Wood

7924 Riopelle St., Detroit, Mich.

Licensed Distributors in All Principal Cities



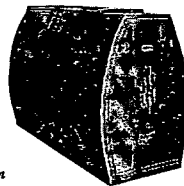
Cross-Sectional View of Tempered-Aire Unit

TEMPERED-AIRE UNITS

Made in six (6) capacities, with filters, blower, burner, humidifier, oil furnace and economizer engineered into one compact, coordinated system. Clean, humidified, filtered, warmed air is delivered from the unit to the duct system and then uniformly distributed to all parts of the building. Air is cleaned by washable cloth filters and circulated by a multiple-blade ball bearing blower, rubber mounted. The heating unit is a counterflow, down-draft furnace and economizer unit, equipped with an integral fire bowl and pressure atomizing oil burner. The humidifier is a flash type, steam tube, located

within the firebox, assuring prompt humidification.

The 1941 line of Tempered-Aire units covers a wide range (Models 001, 101, 201, 301, 401, 501), and has many improvements. The perfected Model "O" oil burner starts, operates and cuts off smoothly even with widely varying draft conditions. Combustion is clean, quiet and efficient, due to the improved manner in which the air and oil are mixed and burned in the horizontal, cylindrical fire bowl to produce the efficient, sunburst-shaped flame.



Improved Functional Design

Tempered-Aire Ratings and Dimensions	No. 001	No. 101	No. 201	No. 301	No. 401	No. 501
Btu 1 Hour at Bonnet	85,000	100,000	135,000	200,000	300,000	400,000
Btu 1 Hour at Grilles	68,000	80,000	110,000	160,000	240,000	320,000
*Air Delivery CFM	850	1,000	1,350	2,000	3,000	4,000
Oil Nozzle Size G.P.H.	.85	1.00	1.35	2.00	3.00	4.00
Heating Surface, Sq. Ft.	40	54 1/2	64	86	124	164
Filter Area, Sq. Ft.	30	30	48	52	78	78
Motor HP—Burner	3/8	3/8	3/8	3/8	3/8	3/8
Motor HP—Blower	7/16	7/16	7/16	7/16	7/16	1
Overall Length, Inches	29 1/4	32	32	36 3/8	45	45
Overall Width, Inches	48	54	54	57	65	65
Dim.—Supply Opening	28 3/4" x 14 3/4"	35" x 16 3/4"	36 1/2" x 16 3/4"	36 3/4" x 16 3/4"	50" x 21 1/4"	65" x 21 1/4"
Dim.—Return Opening	28 1/2" x 14 1/2"	28 1/2" x 16 1/4"	32 1/2" x 16 3/4"	36" x 16 3/4"	47 1/2" x 21 1/4"	47 1/2" x 21 1/4"
Blower Wheel, Dim.	10" x 10"	12" x 12"	14" x 14"	16" x 16"	20" x 20"	20" x 20"
Shipping Weight, lbs.	760	900	1,000	1,200	1,500	1,800
*Stack Connection, dia.	7"	7"	8"	9"	2-10"	2-10"
†Recommended Chimney Size	8" x 12" x 30'	8" x 12" x 30'	8" x 12" x 30'	12" x 12" x 35'	12" x 16" x 40'	12" x 16" x 40'

*Ratings based on 160 deg bonnet temperature and 68 deg return temperature. Greater air deliveries with correspondingly lower bonnet temperatures may be had by the use of larger blower motors.
†On Models 401 and 501 connect both stack outlets to chimney.

GAS-FIRED AIR CONDITIONING UNITS

Seven units: 60V, 84H&V, 120H&V, 168H, 240H, 360H, 480H (V, vertical type; H, horizontal). The model numbers designate the heat inputs in thousands of BTU's per hour. Three standardized basic heating sections (5-, 7-, and 10-fluted) used singly and in multiple produce the seven sizes and heating capacities. The horizontal types—approximately 4 1/2 feet in height—are ideal for basements with unusually low ceilings. The vertical types (while also designed for basements) occupy small space and are suitable for installation in heater-utility rooms—located on the first floor—where space is definitely limited.

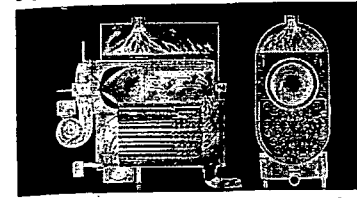


A-5-fluted heating section for MODEL 60V

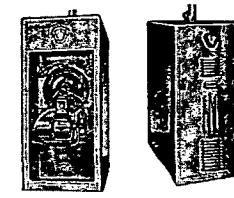
← MODEL 60V (Vertical Type) smallest in 1941 line of seven gas-fired units

BOILER-BURNER UNITS

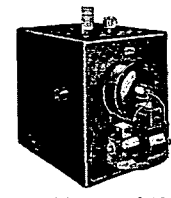
For steam and hot water heating systems. Eight sizes: Series "B" 5 sizes; Series "R" 3 sizes.



Cross-sectional view of Models 155, 180 and 270



Models 135, 160 and 270

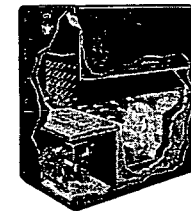


Models 120 and 166

Series "B"	B-120-W	B-135-S or W	B-165-W	B-180-S or W	B-270-S or W
Boiler Nozzle Output B.T.U./Hr.	120,000	135,000	165,000	180,000	270,000
Net Load Rating B.T.U./Hr.	80,000	90,000	110,000	120,000	180,000
Boiler Nozzle Output Sq. Ft. 240 B.T.U./Hr. Steam Radiation	—	562	—	750	1125
Boiler Nozzle Output, Sq. Ft. 150 B.T.U./Hr. Hot Water Radiation	800	900	1100	1200	1300
Net Load Capacity 240 B.T.U./Hr. Steam Radiation	—	375	—	500	750
Net Load Capacity 200 B.T.U./Hr. Hot Water Radiation	400	450	550	600	900
Net Load Capacity 150 B.T.U./Hr. Hot Water Radiation	533	600	733	800	1200
Heating Surface, Sq. Ft.	30	34	44	46	64
Oil Jet Size, G.P.H.	1.20	1.35	1.65	1.80	2.70
Burner Type	"O"	"O"	"O"	"O"	"O"
Size Steam Nozzle	1-3"	1-3"	1-3"	1-3"	1-4"
Size Return Connection	1-3"	1-3"	1-3"	1-3"	1-4"
Stack Size	7"	8"	8"	8"	9"
Recommended Chimney Size	8" x 12" x 30'	8" x 12" x 30'	8" x 12" x 35'	12" x 12" x 35'	12" x 16" x 40'
Water Capacity, Gallons—Steam	—	—	—	46	64
Water	14	51	20	64	200*
Internal Tankless Water Heater (Dual Coil)	—	—	—	200*	200*
Internal Tank Type Water Heater (Single Coil)	—	30*	—	30*	30*
Shipping Weight—Pounds	885	1000	1100	1300	1585

*Gallons per Hour 80° Temperature Rise at 180° Boiler Temperature.

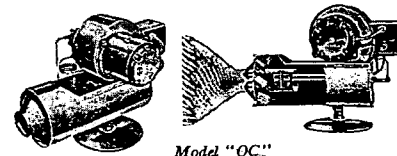
Series "R"	R1000	R1400	R1800
Burner Model	D	D	D
Oil Jet Size—Gal. per Hr.	3.50	5.00	6.50
Max. Net Steam Load, Sq. Ft.	1000	1400	1800
Max. Net Hot Water Load, Sq. Ft.	1600	2240	2880
Max. Gross Steam Load, Sq. Ft.	1500	2100	2700
Max. Gross Hot Water Load, Sq. Ft.	2400	3360	4320
Heating Surface, Sq. Ft.	84	118	154
Size Steam Nozzle	2-2 1/4"	2-2 1/4"	2-3"
Size Return Connections	2-2 1/4"	2-2 1/4"	2-3"
A—Overall Height, Jacket	68 1/2"	68 1/2"	68 1/2"
B—Overall Width, Jacket	37 1/4"	37 1/4"	37 1/4"
C—Overall Length, Jacket	59 1/4"	66	80
D—Height Steam Nozzle	68 1/2"	68 1/2"	68 1/2"
E—Height Return Connections	29 1/2"	29 1/2"	29 1/2"
F—Height External Heater Connection	43 1/2"	43 1/2"	43 1/2"
G—Height Mean Water Line	47 1/2"	49 1/2"	49 1/2"
H—Height Smoke Pipe Adapter	40	40	40
I—Hor. Distance Between Returns	7	7	7
J—Hor. Distance Between Steam Nozzles	12"	12"	12"
Stack Size	12" x 16" x 40'	12" x 16" x 45'	16" x 16" x 45'
Recommended Chimney Size	12" x 16" x 40'	12" x 16" x 45'	16" x 16" x 45'
Water Capacity, Gals.	69	91	91
Shipping Weight, Lbs.	2200	2500	2950



SERIES "R"

The series "R" Boiler-Burner Units are designed for larger installations where their separate boiler shells and fire-boxes facilitate rigging and erection.

CONVERSION OIL BURNER

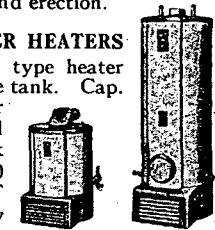


Model "OC"

For installation in existing heating plants.

DOMESTIC WATER HEATERS

Model S50—coil type heater for separate storage tank. Cap. 50 gal. per hour 100 F rise. Model S40 has storage tank integral. Cap. 40 gal. per hour 100 F rise. Vertical rotary burner.



Model S50

Model S40