# Spencer Heater Company

## Williamsport, Pa.

NEW YORK BOSTON SYRACUSE PHILADELPHIA ALBANY BALTIMORE HARRISBURG BUFFALO SCRANTON ROCHESTER

**Builders of Spencer Heaters**

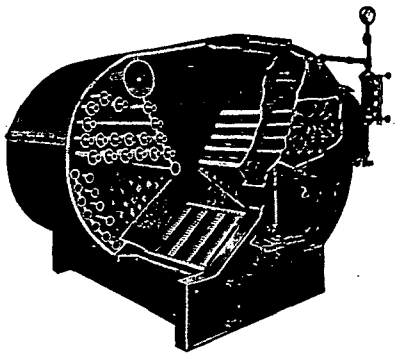
## SPENCER HEATERS

Give uniform heat over long periods and use small size hard coal with least attention to the fire.

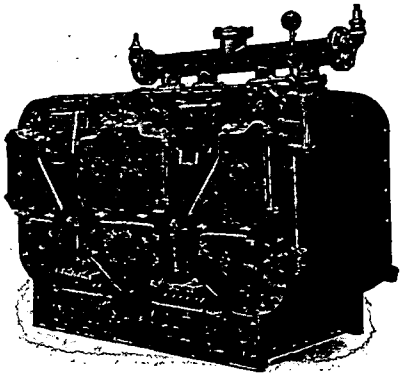
The magazine-feed feature is built into the heater and requires no adjustment. The magazine holds a supply of coal sufficient for 8 to 12 hours in severe weather or for a proportionately longer period in milder weather.

Spencer Heaters are economical and efficient.

Due to the magazine-feed feature of the Spencer Heater it is impracticable to obtain a firing period of less than 8 hours. Therefore ratings of Spencer Heaters are based upon an evaporation of 8 lbs. of water per lb. of coal burned, the rated evaporation having been obtained in actual test using fresh mined No. 1 Buckwheat coal as fuel.



*50 Series. Spencer Tubular Heater*



*100 Series. Spencer Tubular Heater*

### SPENCER TUBULAR STEAM HEATERS

| | Heater Number | Rating Sq. Ft. Radiation | Fire Surface Sq. Ft. | Heating Surface Sq. Ft. | Tapping Flow | Tapping Return | Overall Length Ins. | Overall Width Ins. | Water Line Ins. | Draft to Develop Rating Ins. $H_2O$ | Size Chimney Flue |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 Series | 15 | 2,000 | 12.00 | 282 | 2-4" | 2-2½" | 72½ | 62½ | 56 | .23 | 18"x18"x50' |
| | 17 | 2,500 | 13.50 | 309 | 2-4" | 2-2½" | 78½ | 62½ | 56 | .24 | 18"x18"x55' |
| | 19 | 3,000 | 15.00 | 337 | 2-4" | 2-2½" | 84½ | 62½ | 56 | .25 | 18"x18"x60' |
| | 20 | 3,500 | 16.50 | 365 | 2-4" | 2-2½" | 90½ | 62½ | 56 | .26 | 18"x18"x65' |
| | 21 | 4,000 | 18.00 | 393 | 2-4" | 2-2½" | 96½ | 62½ | 56 | .27 | 18"x18"x65' |
| | 3-45 | 4,500 | 18.05 | 389 | 2-5" | 2-2½" | 99½ | 81¼ | 59 | .24 | 18"x18"x50' |
| | 3-50 | 5,000 | 20.24 | 429 | 2-5" | 2-2½" | 105¼ | 81¼ | 59 | .25 | 18"x18"x55' |
| | 3-55 | 5,500 | 22.56 | 468 | 2-5" | 2-2½" | 112 | 81¼ | 59 | .26 | 18"x18"x60' |
| | 3-60 | 6,000 | 24.83 | 506 | 2-5" | 2-2½" | 118¼ | 81¼ | 59 | .27 | 20" Diam. x 65' |
| | 3-70 | 7,000 | 27.00 | 547 | 2-5" | 2-2½" | 124½ | 81¼ | 59 | .28 | 20" Diam. x 70' |
| 100 Series | 3-80 | 8,000 | 30.35 | 560 | 1-8" | 2-2½" | 98 | 116⅛ | 66 | .27 | 24" Diam. x 65' |
| | 3-90 | 9,000 | 34.70 | 621 | 1-8" | 2-2½" | 104¼ | 116⅛ | 66 | .28 | 24" Diam. x 65' |
| | 3-105 | 10,500 | 39.05 | 683 | 1-8" | 2-2½" | 110½ | 116⅛ | 66 | .29 | 30" Diam. x 65' |
| | 3-120 | 12,000 | 43.40 | 745 | 1-8" | 2-2½" | 116¾ | 116⅛ | 66 | .30 | 30" Diam. x 70' |
| | 3-140 | 14,000 | 47.75 | 807 | 1-8" | 2-2½" | 123 | 116⅛ | 66 | .32 | 36" Diam. x 70' |
| | 3-160 | 16,000 | 52.10 | 869 | 1-8" | 2-2½" | 129¼ | 116⅛ | 66 | .34 | 36" Diam. x 70' |

Heaters No. 3-45 to 3-160 are furnished with steel jackets and 1½ in. Rockwool asbestos covering, also pipe header.

Heaters No. 15-21 are furnished with steel jackets only.

Chimney Flue sizes are based on a maximum Flue Temperature at Boiler Smoke outlet of 500 deg. fahr.

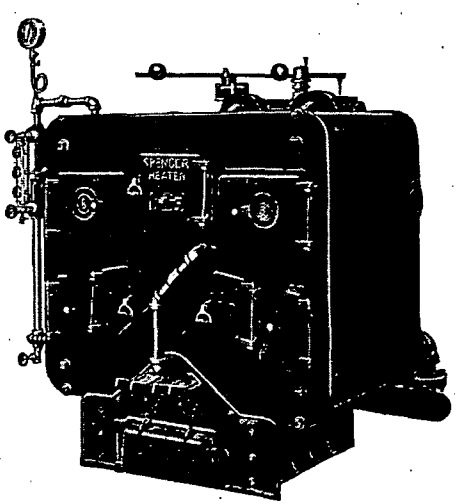




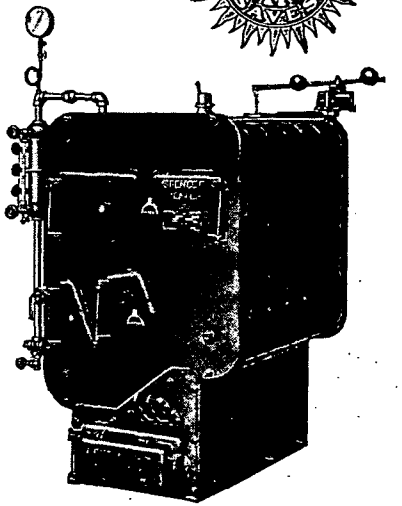
SPENCER HEATERS are adaptable for residences, apartment houses, churches, schools, public and commercial buildings, theatres, green houses, garages and all other types of buildings heated by low pressure steam, vapor, or hot water.

For over 25 years SPENCER HEATERS have been tried and tested under the most severe climatic conditions. There are thousands of successful installations throughout the entire country.

Write for illustrated catalog containing complete information.



*No. 2 Series. Spencer Sectional Heater*



*No. 1 Series. Spencer Sectional Heater*

### SPENCER SECTIONAL STEAM HEATERS

| Heater Number | Rating Sq. Ft. Radiation | Fire Surface Sq. Ft. | Tapping Flow | Tapping Return | Overall Length Ins. | Overall Width Ins. | Water Line Ins. | Draft to Develop Rating Ins. $H_2O$ | Size Chimney Flue |
|---|---|---|---|---|---|---|---|---|---|
| 1-5-S | 600 | 2.26 | 1-4" | 2-4" | 48⅛ | 37⅛ | 50" | 0.12 | 8½"x13"x35' |
| 1-6-S | 750 | 2.82 | 1-4" | 2-4" | 54⅜ | 37⅛ | 50" | 0.13 | 8½"x13"x35' |
| 1-7-S | 900 | 3.38 | 1-4" | 2-4" | 60⅝ | 37⅛ | 50" | 0.14 | 8½"x13"x40' |
| 1-8-S | 1,050 | 3.95 | 1-4" | 2-4" | 66⅞ | 37⅛ | 50" | 0.15 | 13" x13"x40' |
| 1-9-S | 1,200 | 4.51 | 1-4" | 2-4" | 73⅛ | 37⅛ | 50" | 0.16 | 13" x13"x40' |
| 2-6-S | 1,300 | 5.64 | 2-4" | 2-4" | 68⅝ | 57⅜ | 50" | 0.17 | 13" x13"x40' |
| 2-7-S | 1,600 | 6.77 | 2-4" | 2-4" | 74⅞ | 57⅜ | 50" | 0.18 | 13" x13"x40' |
| 2-8-S | 2,000 | 7.90 | 2-4" | 2-4" | 81⅛ | 57⅜ | 50" | 0.19 | 13" x13"x40' |
| 2-9-S | 2,400 | 9.03 | 2-4" | 2-4" | 87⅜ | 57⅜ | 50" | 0.20 | 13" x13"x40' |
| 2-10-S | 2,800 | 10.16 | 2-4" | 2-4" | 93⅝ | 57⅜ | 50" | 0.21 | 13" x18"x45' |
| 2-11-S | 3,200 | 11.28 | 2-4" | 2-4" | 99⅞ | 57⅜ | 50" | 0.21 | 13" x18"x45' |

### SPENCER SECTIONAL WATER HEATERS

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1-5-W | 1,000 | 2.26 | 2-4" | 2-4" | 48⅛ | 37⅛ | ..... | 0.12 | 8½"x13"x35' |
| 1-6-W | 1,250 | 2.82 | 2-4" | 2-4" | 54⅜ | 37⅛ | ..... | 0.13 | 8½"x13"x35' |
| 1-7-W | 1,500 | 3.38 | 2-4" | 2-4" | 60⅝ | 37⅛ | ..... | 0.14 | 8½"x13"x40' |
| 1-8-W | 1,750 | 3.95 | 2-4" | 2-4" | 66⅞ | 37⅛ | ..... | 0.15 | 13" x13"x40' |
| 1-9-W | 2,000 | 4.51 | 2-4" | 2-4" | 73⅛ | 37⅛ | ..... | 0.16 | 13" x13"x40' |
| 2-6-W | 2,100 | 5.64 | 2-4" | 2-4" | 68⅝ | 57⅜ | ..... | 0.17 | 13"x13"x40' |
| 2-7-W | 2,600 | 6.77 | 2-4" | 2-4" | 74⅞ | 57⅜ | ..... | 0.18 | 13"x13"x40' |
| 2-8-W | 3,200 | 7.90 | 2-4" | 2-4" | 81⅛ | 57⅜ | ..... | 0.19 | 13"x13"x40' |
| 2-9-W | 3,800 | 9.03 | 2-4" | 2-4" | 87⅜ | 57⅜ | ..... | 0.20 | 13"x13"x40' |
| 2-10-W | 4,500 | 10.16 | 2-4" | 2-4" | 93⅝ | 57⅜ | ..... | 0.21 | 13"x18"x45' |
| 2-11-W | 5,100 | 11.28 | 2-4" | 2-4" | 99⅞ | 57⅜ | ..... | 0.21 | 13"x18"x45' |