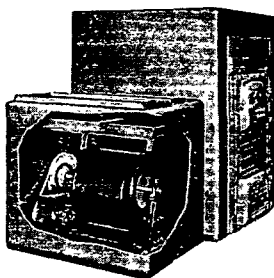


## SUNBEAM AIR CONDITIONING



Series No. 80. View of interior showing blower, motor, and filters.

### Sunbeam Coal Fired Air Conditioning Unit (Cont'd)

#### Series No. 80

Users throughout the country attest to the long life and high efficiency of this Sunbeam Series. The riveted and welded heating element combined with efficient Sunbeam Filters make the Series No. 80 the cleanest system available. An inner casing prevents heat loss and keeps exterior cabinet cool.

**Exterior Cabinet**—Modern design gives attractive appearance. Die cut and formed parts connected by snug fitting slip joints, and the use of 20 gauge steel provide rigid, air-tight construction. Finished in green crystalline baked enamel.

**Heating Element**—No. 7 gauge boiler plate, riveted and welded. Radiator made of No. 12 gauge boiler plate, welded.

**Equipment**—Blower, Motor, Filters, Humidifiers and Controls same as in Series No. 20.

**Stoker Fired and Oil Fired Models**—The Series No. 80 is available in specially designed stoker and oil fired models. See table for capacities.

#### Series No. 5500

This new Unit supplies the demand for an air conditioner with a steel heating element—at a low price. It measures up to the high Sunbeam standards in performance, durability and attractive appearance.

**Exterior Cabinet**—Modern design gives attractive appearance. Die cut and formed parts connected by snug fitting slip joints and the use of 20 gauge steel, provide rigid, air-tight construction. Finished in green crystalline baked enamel.

**Heating Element**—No. 8 gauge boiler plate steel riveted and welded. Radiator made of No. 12 gauge steel, welded.

**Equipment**—Blower, Motor, Filters, Humidifiers and Controls same as in Series No. 20.

**Capacities—Blower-Motor-Filter Specifications—Series Nos. 20, 80 and 5500**  
See next page for Dimensions.

| No.  | Btu Capacity at Register |                           | Coal Hand Fired       |                              | Oil or Stoker Fired   |                              | Blower No. | Diam. of Blower Wheel | Pitch Dia. of Blower Pulley | Number Blowers | Motor Hp | Motor Rpm | Number Filters |
|------|--------------------------|---------------------------|-----------------------|------------------------------|-----------------------|------------------------------|------------|-----------------------|-----------------------------|----------------|----------|-----------|----------------|
|      | Coal Hand Fired          | Oil Fired or Stoker Fired | 1Cfm Required at 65 F | 1Approx. Btu Rpm at 1/2 S.P. | 1Cfm Required at 65 F | 1Approx. Btu Rpm at 1/2 S.P. |            |                       |                             |                |          |           |                |
| 4420 | 95,000                   | 108,000                   | 1020                  | 401                          | 1158                  | 430                          | 1-12       | 12"                   | 12"                         | 1              | 1/4      | 1725      | 4(20" x 20")   |
| 4820 | 111,000                  | 126,000                   | 1195                  | 430                          | 1356                  | 459                          | 1-12       | 12"                   | 12"                         | 1              | 1/4      | 1725      | 4(20" x 20")   |
| 5220 | 133,000                  | 150,000                   | 1426                  | 459                          | 1618                  | 487                          | 1-12       | 12"                   | 12"                         | 1              | 1/4      | 1725      | 4(20" x 20")   |
| 5620 | 153,000                  | 173,000                   | 1644                  | 487                          | 1865                  | 516                          | 1-12       | 12"                   | 12"                         | 1              | 1/4      | 1725      | 4(20" x 20")   |

| No.  | Coal Hand Fired          |                       | Coal Stoker Fired        |                       | Oil Gun Type Burner      |                       | Oil Rotary Burner        |                       | Blower No. | Diam. of Blower Wheel | Pitch Dia. of Blower Pulley | No. of Blowers | Motor Hp | Number Filters |
|------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|------------|-----------------------|-----------------------------|----------------|----------|----------------|
|      | Btu Capacity at Register | 1Cfm Required at 65 F | Btu Capacity at Register | 1Cfm Required at 65 F | Btu Capacity at Register | 1Cfm Required at 65 F | Btu Capacity at Register | 1Cfm Required at 65 F |            |                       |                             |                |          |                |
| 2280 | 103,000                  | 1112                  | 113,000                  | 1210                  | 117,000                  | 1260                  | 134,000                  | 1441                  | 1-12       | 12"                   | 12"                         | 1              | 1/4      | 4(20" x 20")   |
| 2480 | 118,000                  | 1269                  | 129,000                  | 1381                  | 134,000                  | 1439                  | 153,000                  | 1645                  | 1-12       | 12"                   | 12"                         | 1              | 1/4      | 4(20" x 20")   |
| 2780 | 155,000                  | 1666                  | 169,000                  | 1814                  | 176,000                  | 1890                  | 201,000                  | 2160                  | 1-15       | 15"                   | 15"                         | 1              | 1/2      | 4(20" x 20")   |
| 3080 | 182,000                  | 1962                  | 199,000                  | 2136                  | 207,000                  | 2225                  | 237,000                  | 2543                  | 1-18       | 18"                   | 18"                         | 1              | 3/4      | 5(16" x 25")   |
| 3480 | 222,000                  | 2385                  | 242,000                  | 2596                  | 252,000                  | 2705                  | 288,000                  | 3091                  | 1-21       | 21"                   | 21"                         | 1              | 1        | 6(16" x 25")   |
| 5520 | 76,000                   | 815                   | 83,000                   | 888                   | 86,000                   | 924                   | 98,000                   | 1057                  | 1-9        | 9 1/2"                | 12"                         | 1              | 1/4      | 2(16" x 25")   |
| 5522 | 89,000                   | 956                   | 97,000                   | 1041                  | 101,000                  | 1085                  | 115,000                  | 1240                  | 1-12       | 12"                   | 12"                         | 1              | 1/4      | 4(20" x 20")   |
| 5524 | 104,000                  | 1114                  | 113,000                  | 1213                  | 118,000                  | 1264                  | 134,000                  | 1444                  | 1-12       | 12"                   | 12"                         | 1              | 1/4      | 4(20" x 20")   |
| 5527 | 132,000                  | 1415                  | 143,000                  | 1541                  | 149,000                  | 1605                  | 171,000                  | 1835                  | 1-12       | 12"                   | 12"                         | 1              | 3/8      | 4(20" x 20")   |

1Air heated from 65 to 165 F increases 19 per cent in volume. Therefore, warm air ducts should have capacity for 19 per cent greater Cfm than listed above.

\*Nos. 2280, 5520 and 5522 are not available in special Stoker-Fired Model.

### Dimensions—Series No. 20

| No.  | Overall Width | Height Heating Compartment | Height Blower Compartment | *Depth of Blower Compartment | *Overall Depth | Air Discharge Opening | Air Intake Opening | Smoke Collar Diameter | Approximate Distance from Floor to Center of Smoke Collar |
|------|---------------|----------------------------|---------------------------|------------------------------|----------------|-----------------------|--------------------|-----------------------|-----------------------------------------------------------|
| 4420 | 44 1/2"       | 60"                        | 36 1/2"                   | 29 1/2"                      | 67 1/2"        | 20" x 20"             | 14" x 36 1/2"      | 9"                    | 45 1/2"                                                   |
| 4820 | 46 1/2"       | 60"                        | 36 1/2"                   | 29 1/2"                      | 71 1/2"        | 22" x 22"             | 14" x 36 1/2"      | 9"                    | 45 1/2"                                                   |
| 5220 | 52"           | 64"                        | 36 1/2"                   | 29 1/2"                      | 75 1/2"        | 23" x 23"             | 14" x 36 1/2"      | 10"                   | 49 1/2"                                                   |
| 5620 | 56"           | 64"                        | 36 1/2"                   | 29 1/2"                      | 78 1/2"        | 24" x 24"             | 14" x 36 1/2"      | 10"                   | 49 1/2"                                                   |

\*Allow clearance in rear equal to depth of blower compartment for removal of filters, blower and motor.

### Dimensions—Series Nos. 80 and 5500

| No.  | Overall Width | Height Heating Compartment | Height Blower Compartment | *Width of Blower Compartment | *Overall Depth | Air Discharge Opening | Air Intake Opening | Smoke Collar Diameter | Approximate Distance from Floor to Center of Smoke Collar |
|------|---------------|----------------------------|---------------------------|------------------------------|----------------|-----------------------|--------------------|-----------------------|-----------------------------------------------------------|
| 2280 | 73 1/2"       | 60"                        | 36 1/2"                   | 29 1/2"                      | 43 1/2"        | 20" x 20"             | 14" x 36 1/2"      | 9"                    | 41 1/2"                                                   |
| 2480 | 75 1/2"       | 60"                        | 36 1/2"                   | 29 1/2"                      | 46 1/2"        | 22" x 22"             | 14" x 36 1/2"      | 9"                    | 41 1/2"                                                   |
| 2780 | 82 1/2"       | 67"                        | 41"                       | 33 1/2"                      | 51 1/2"        | 25" x 25"             | 16" x 45"          | 10"                   | 43 1/2"                                                   |
| 3080 | 91 1/2"       | 67"                        | 41"                       | 36 1/2"                      | 54 1/2"        | 27" x 27"             | 20" x 51 1/2"      | 10"                   | 44 1/2"                                                   |
| 3480 | 101 1/2"      | 67"                        | 51 1/4"                   | 42 1/2"                      | 58 1/2"        | 32" x 32"             | 24" x 55"          | 10"                   | 45 1/2"                                                   |
| 5520 | 65 1/2"       | 58"                        | 28 1/4"                   | 26 1/4"                      | 38 1/4"        | 18" x 18"             | 10" x 28 1/2"      | 8"                    | 24 1/4"                                                   |
| 5522 | 69 1/2"       | 58"                        | 36 1/4"                   | 29 1/4"                      | 41"            | 20" x 20"             | 14" x 36 1/2"      | 8"                    | 24 1/4"                                                   |
| 5524 | 73 1/2"       | 58"                        | 36 1/4"                   | 29 1/4"                      | 43 1/2"        | 22" x 22"             | 14" x 36 1/2"      | 8"                    | 24 1/4"                                                   |
| 5527 | 77 1/2"       | 61"                        | 36 1/4"                   | 29 1/2"                      | 48 1/2"        | 23" x 23"             | 14" x 36 1/2"      | 9"                    | 24"                                                       |

\*Smoke Pipe Tee extends out approximately 28 in. additional in Nos. 2280 and 2480, and 38 in. in larger sizes.

\*Allow clearance at side equal to width of blower compartment for removal of filters, blower and motor.

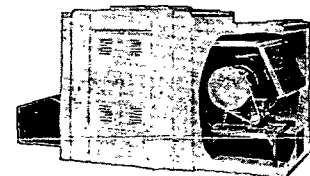
### Sunbeam Stoker Fired Air Conditioning Unit Series S

The New Series "S" is designed for Stoker Firing exclusively. Either hopper or bin feed type stoker can be installed from front, rear, either side or below floor level through openings provided by the factory. The large double radiator will accommodate several months to a full season's accumulation of fly ash without reducing the rated heating capacity of the Unit. Cleanout Collars are at front of radiator. Clinkers are conveniently accessible and can be dropped into clinker pan, located between clinker door and fire pot, to cool. Heating element is constructed of No. 7 gauge boiler plate riveted and welded; radiator of No. 12 gauge steel, welded. Blower, motor, filters, humidifiers and controls are the same as used with other Sunbeam Units.

### Dimensions—Capacities—Blower-Motor-Filter Specifications—Series S

|                                                                | 24-S              | 27-S              |
|----------------------------------------------------------------|-------------------|-------------------|
| *Max. Stoker Input Lb per Hour                                 | 17 1/2            | 23 1/2            |
| Max. Btu Cap. at Register                                      | 150,000           | 200,000           |
| Number Filters                                                 | 4(20" x 20")      | 5(16" x 25")      |
| Height of Heating Compartment                                  | 61 1/2"           | 67"               |
| Overall Width                                                  | 91 1/2"           | 98 1/2"           |
| Overall Depth                                                  | 58 1/2"           | 63 1/2"           |
| Width of Blower Compartment                                    | 34 1/2"           | 36 1/2"           |
| Height of Blower Compartment                                   | 55"               | 56 1/2"           |
| Air Discharge Opening                                          | 26" x 26"         | 30" x 30"         |
| Air Intake Opening                                             | 16 1/4" x 44 1/4" | 20 1/8" x 50 1/8" |
| Approximate Distance From Floor To Center of Smoke Outlet      | 43 1/4"           | 44 1/4"           |
| Size of Screw Tube Chute Openings ("S" model only)             | 17" x 8 1/2"      | 17" x 8 1/2"      |
| Distance From Floor To Bottom of Chute Opening                 | 4 1/4"            | 4 1/4"            |
| Distance From Center of Drum To Side of Heating Cabinet        | 28 1/2"           | 31"               |
| Distance From Center of Drum To Rear of Heating Cabinet        | 29 1/2"           | 31 1/2"           |
| Distance From Center of Drum To Front of Heating Cabinet       | 29 1/2"           | 31 1/2"           |
| Distance From Center of Drum To Far Side of Blower Compartment | 62 1/2"           | 67 1/2"           |

\*Combustion rate of stoker must conform to heating requirements of installation. Ratings based on coal having a calorific value of 12,000 Btu per pound.



LEFT: Interior view of Series S showing blower, motor and filters. Bin feed stoker is installed.

RIGHT: Heating element showing Double Radiator; Cleanout Collars; Clinker Pan; Chutes; Chute Extension; Hopper stoker installed from rear.

