

# THE FOX FURNACE COMPANY

## SUNBEAM AIR CONDITIONING

### Sunbeam Coal Fired Air Conditioning Units (Con'd.) Series No. 20

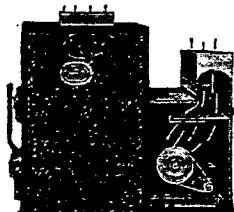
This series meets the demand of the average home owner who desires the benefit of air conditioning and is seeking a moderately priced unit to install in a new home or to replace an inefficient furnace. Features that assure years of satisfactory and healthful service are incorporated in this unit.

**Exterior Cabinet**—Finished in crystalline baked enamel.

**Heating Element**—Cast iron. Has large area of heating surface. Is long-lived and gas-tight.

**Inner Casing**—Galvanized iron. Air circulating between inner and outer casing keeps cabinet cool.

**Equipment**—Blower, Motor, Filters, Humidifiers and Controls same as in Series 80.



Interior view of Series No. 20 Unit showing spray humidifier, filters, blower and motor.

### Capacities—Blower-Motor-Filter Specifications—Series No. 80 and 20

| No.  | Btu Capacity at Register |                           | Blower No. | Coal Hand Fired           |                                     | Oil or Stoker Fired       |                                     | Diam. of Blower Wheel | Number Motor Blowers | Motor H.P. | Motor R.P.M. | Number Filters |
|------|--------------------------|---------------------------|------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|-----------------------|----------------------|------------|--------------|----------------|
|      | Coal Hand Fired          | Oil Fired or Stoker Fired |            | †C.F.M. Required at 65° F | †Approx. Blower R.P.M. at 1/4" S.P. | †C.F.M. Required at 65° F | †Approx. Blower R.P.M. at 1/4" S.P. |                       |                      |            |              |                |
| 2280 | 103,000                  | 117,000                   | 1-12A      | 1112                      | 401                                 | 1260                      | 430                                 | 12"                   | 1                    | 1/4        | 1725         | 2 (20" x 20")  |
| 2480 | 118,000                  | 134,000                   | 1-12A      | 1269                      | 430                                 | 1439                      | 459                                 | 12"                   | 1                    | 1/4        | 1725         | 2 (20" x 20")  |
| 2780 | 155,000                  | 176,000                   | 1-15A      | 1666                      | 367                                 | 1890                      | 380                                 | 15"                   | 1                    | 1/2        | 1725         | 3 (16" x 25")  |
| 3080 | 182,000                  | 207,000                   | 1-18A      | 1962                      | 295                                 | 2225                      | 300                                 | 18"                   | 1                    | 3/4        | 1725         | 4 (16" x 25")  |
| 3480 | 222,000                  | 252,000                   | 1-21A      | 2385                      | 245                                 | 2705                      | 255                                 | 21"                   | 1                    | 1          | 1725         | 4 (16" x 25")  |
| 4020 | 78,000                   | 88,000                    | 1-12A      | 838                       | 373                                 | 951                       | 390                                 | 12"                   | 1                    | 1/4        | 1725         | 2 (20" x 20")  |
| 4420 | 95,000                   | 108,000                   | 1-12A      | 1020                      | 401                                 | 1158                      | 430                                 | 12"                   | 1                    | 1/4        | 1725         | 2 (20" x 20")  |
| 4820 | 111,000                  | 126,000                   | 1-12A      | 1195                      | 430                                 | 1356                      | 459                                 | 12"                   | 1                    | 1/4        | 1725         | 2 (20" x 20")  |
| 5220 | 133,000                  | 150,000                   | 1-12A      | 1426                      | 459                                 | 1618                      | 487                                 | 12"                   | 1                    | 1/4        | 1725         | 3 (16" x 25")  |
| 5620 | 153,000                  | 173,000                   | 1-12A      | 1644                      | 487                                 | 1865                      | 516                                 | 12"                   | 1                    | 1/2        | 1725         | 3 (16" x 25")  |

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

### Dimensions—Series No. 80

| No.  | †Overall Width | Height Heating Compartment | Height Blower Compartment | †Width of Blower Compartment | †Overall Depth | Air Discharge Opening | Air Intake Opening |
|------|----------------|----------------------------|---------------------------|------------------------------|----------------|-----------------------|--------------------|
| 2280 | 74"            | 60"                        | 37 1/2"                   | 28"                          | 45 5/8"        | 20" x 20"             | 12" x 40"          |
| 2480 | 76"            | 60"                        | 37 1/2"                   | 28"                          | 48 1/8"        | 22" x 22"             | 12" x 40"          |
| 2780 | 83 1/2"        | 67"                        | 42"                       | 29"                          | 53 5/8"        | 25" x 25"             | 12" x 48 1/2"      |
| 3080 | 90"            | 67"                        | 43"                       | 32 1/2"                      | 57 1/8"        | 27" x 27"             | 17" x 54 1/2"      |
| 3480 | 98 1/2"        | 67"                        | 48"                       | 37"                          | 61"            | 30" x 30"             | 17" x 58 1/2"      |

\*Smoke Pipe Tee extends out approximately 24 in. additional in Nos. 2280 and 2480, and 32 in. in larger sizes. †Includes width of angle iron base. \*Allow clearance at side equal to width of blower compartment for removal of filters, blower and motor.

### Dimensions—Series No. 20

| No.  | †Overall Width | †Overall Depth | Height Heating Compartment | †Depth of Blower Compartment | Height Blower Compartment | Air Intake Opening | Air Discharge Opening (if Plenum Chamber is Used) |
|------|----------------|----------------|----------------------------|------------------------------|---------------------------|--------------------|---------------------------------------------------|
| 4020 | 42"            | 66 5/8"        | 60"                        | 28"                          | 37 1/2"                   | 12" x 40"          | 18" x 18"                                         |
| 4420 | 46 1/8"        | 68 1/8"        | 60"                        | 28"                          | 37 1/2"                   | 12" x 40"          | 20" x 20"                                         |
| 4820 | 48 1/8"        | 72 1/8"        | 60"                        | 28"                          | 37 1/2"                   | 12" x 40"          | 22" x 22"                                         |
| 5220 | 54"            | 77 1/8"        | 64"                        | 29"                          | 42"                       | 12" x 48 1/2"      | 23" x 23"                                         |
| 5620 | 58"            | 80 1/8"        | 64"                        | 29"                          | 42"                       | 12" x 48 1/2"      | 24" x 24"                                         |

\*Includes width of angle iron base. \*Allow clearance in rear equal to depth of blower compartment for removal of filters, blower and motor.

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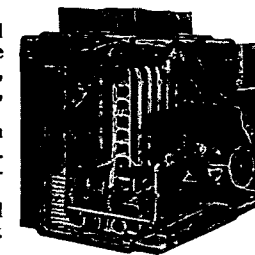
### Sunbeam Gas Fired Air Conditioning Units Series D

This series, which performs the same functions as all other Sunbeam Air Conditioners, has the same attractive appearance as the Series 200. All bolts, screws, valves, pipes and wiring are located inside the cabinet out of sight, yet are readily accessible.

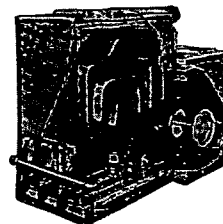
**Exterior Cabinet**—20 gauge furniture steel. Modern in design and finished in two tones of green glossy enamel.

**Heating Elements**—Cast iron. Long-lived and leak-proof. Provide unusually high efficiency.

**Equipment**—Blower, Motor, Filters, Humidifiers and Controls same as in Series 200.



Interior view of Series D showing heating element, burner, thermostat pilot, spray humidifier, blower, motor and filters.



Interior view of Series M showing heating element, burner, valves, inner casing, blower, motor and filters.

### Series M

This series is designed and priced for small and average size homes. Although modern in appearance and efficient in operation it is substantially lower in cost than the Series D.

**Exterior Cabinet**—Finished in green crystalline enamel with dark green glossy enamel trim.

**Heating Elements**—Made of 16 gauge steel; unique design provides ample heating surface and long fire travel.

**Equipment**—Blower, Motor, Filters, Humidifiers and Controls same as in Series 200.

### Rating—Blower-Motor-Filter Specifications—Series D and M

| No. | A.G.A. Btu Input per Hour | Btu Capacity at Registers | Blower No. | *Blower C.F.M. at 65 F | *Approx. Blower R.P.M. at 1/4" S.P. | Diameter of Wheel | Motor H.P. | †Number Filters |
|-----|---------------------------|---------------------------|------------|------------------------|-------------------------------------|-------------------|------------|-----------------|
| D-2 | 140,000                   | 107,100                   | 1-12A      | 1016                   | 401                                 | 12"               | 1/4        | 2               |
| D-3 | 210,000                   | 160,650                   | 1-15A      | 1526                   | 344                                 | 15"               | 1/2        | 3               |
| D-4 | 280,000                   | 214,200                   | 1-18A      | 2032                   | 300                                 | 18"               | 3/4        | 4               |
| D-5 | 350,000                   | 267,750                   | 2-15A      | 2540                   | 344                                 | 15"               | 1/2        | 4               |
| M-2 | 80,000                    | 61,200                    | 1-10A      | 580                    | 550                                 | 10 5/8"           | 1/4        | 2               |
| M-3 | 120,000                   | 91,800                    | 1-12A      | 870                    | 380                                 | 12"               | 1/4        | 3               |
| M-4 | 160,000                   | 122,400                   | 1-12A      | 1160                   | 475                                 | 12"               | 1/4        | 3               |
| M-5 | 200,000                   | 153,000                   | 1-15A      | 1490                   | 340                                 | 15"               | 1/2        | 3               |

\*Air heated from 65 to 165 F increases 19 per cent in volume. Therefore, warm air ducts should have capacity for 19 per cent greater C. F. M. than listed above. †Size of filter, 16" x 25".

### Dimensions—Series D and M

| No. | Width of Heating Compartment | Overall Depth | Overall Height | Width of Blower Compartment | Height of Blower Compartment | Depth of Blower Compartment | Air Discharge Opening | Air Intake Opening |
|-----|------------------------------|---------------|----------------|-----------------------------|------------------------------|-----------------------------|-----------------------|--------------------|
| D-2 | 44 1/2"                      | *75 5/8"      | 58"            | 39 1/2"                     | 41 1/8"                      | 28"                         | 16" x 22"             | 12 1/2" x 33 1/4"  |
| D-3 | 56"                          | *76 5/8"      | 58"            | 48 1/8"                     | 41 1/8"                      | 29"                         | 16" x 34"             | 12 1/2" x 44"      |
| D-4 | 70 1/2"                      | *79 5/8"      | 58"            | 65 1/8"                     | 41 1/8"                      | 32 1/8"                     | 16" x 45"             | 12 1/2" x 59 1/4"  |
| D-5 | 82"                          | *76 5/8"      | 58"            | 86"                         | 41 1/8"                      | 29"                         | 16" x 56 1/2"         | 12 1/2" x 70"      |

\*Allow clearance in rear equal to depth of blower compartment for removal of filters, blower and motor. Allow 24 inches clearance in front for removal of baffles.

|     |         |          |     |         |     |         |               |           |
|-----|---------|----------|-----|---------|-----|---------|---------------|-----------|
| M-2 | 20 1/4" | *69 1/8" | 54" | 35 5/8" | 39" | 29 1/8" | 16" x 15"     | 10" x 20" |
| M-3 | 28 1/4" | *69 1/8" | 54" | 38 1/8" | 39" | 29 1/8" | 16" x 22 1/2" | 10" x 30" |
| M-4 | 37 1/4" | *69 1/8" | 54" | 48 1/8" | 39" | 29 1/8" | 16" x 30"     | 10" x 40" |
| M-5 | 45 1/4" | *69 1/8" | 54" | 48 1/8" | 39" | 29 1/8" | 16" x 37 1/2" | 12" x 42" |

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