

## Heating Systems (Hot Water)

### Bell and Gossett Company

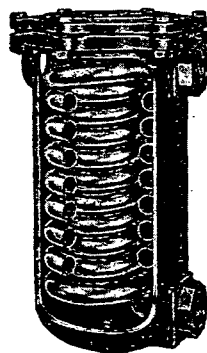
3000 Wallace Street

Chicago, Ill.

HOT WATER SYSTEMS AND SPECIALTIES

#### B & G INDIRECT WATER HEATERS FOR STEAM AND VAPOR SYSTEMS

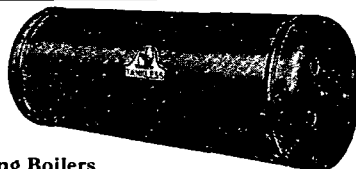
Ratings below are based on 100 deg rise in three hours with boiler water temperature of 180 deg or more



| Description                                                                                  | No.  | Capacity Gallons | Max. Length Inches | Max. Width Inches | Shell Openings Inches | Coil Openings Inches | Shipping Weights Pounds |
|----------------------------------------------------------------------------------------------|------|------------------|--------------------|-------------------|-----------------------|----------------------|-------------------------|
| SINGLE COIL.<br>For residences of all sizes, Duplex apartments and small buildings.          | 30   | 30               | 11 3/4             | 5 1/4             | 1                     | 3/4                  | 12                      |
|                                                                                              | 40   | 40               | 12 3/4             | 5 3/4             | 1                     | 3/4                  | 13                      |
|                                                                                              | 52   | 52               | 14 1/4             | 5 3/4             | 1 1/4                 | 3/4                  | 15                      |
|                                                                                              | 70   | 70               | 16 1/4             | 5 3/4             | 1 1/4                 | 3/4                  | 18                      |
|                                                                                              | 90   | 90               | 18 3/4             | 7 1/4             | 1 1/2                 | 1                    | 40                      |
|                                                                                              | 100  | 100              | 20 3/4             | 7 1/4             | 1 1/2                 | 1                    | 44                      |
| DOUBLE COIL.<br>For larger apartments, garages, medium sized factories and office buildings. | 120  | 120              | 22 3/4             | 7 1/4             | 1 1/2                 | 1                    | 47                      |
|                                                                                              | 150  | 150              | 25 1/4             | 7 1/4             | 1 1/2                 | 1                    | 52                      |
|                                                                                              | 160  | 160              | 12                 | 11 1/2            | 2                     | 1 1/2                | 61                      |
|                                                                                              | 200  | 200              | 14 1/4             | 11 1/2            | 2                     | 1 1/2                | 72                      |
| TRIPLE COIL.<br>For heavier requirements.                                                    | 300  | 300              | 19 3/4             | 11 1/2            | 2                     | 1 1/2                | 90                      |
|                                                                                              | 400  | 400              | 23 3/4             | 11 1/2            | 2                     | 1 1/2                | 100                     |
|                                                                                              | 500  | 500              | 27                 | 11 1/2            | 2                     | 1 1/2                | 120                     |
|                                                                                              | 600  | 600              | 21 3/4             | 15 1/4            | 3                     | 2 1/2                | 210                     |
| HORIZONTAL TUBE Heaters                                                                      | 800  | 800              | 25 3/4             | 15 1/4            | 3                     | 2 1/2                | 234                     |
|                                                                                              | 1000 | 1000             | 29 3/4             | 15 1/4            | 3                     | 2 1/2                | 250                     |
|                                                                                              | 1200 | 1200             | 46 3/4             | 17                | 4                     | 3                    | 217                     |
|                                                                                              | 1600 | 1600             | 53 3/4             | 17                | 4                     | 3                    | 238                     |
|                                                                                              | 2000 | 2000             | 61 3/4             | 17                | 6                     | 3                    | 260                     |

#### B & G TANKLESS HEATER

This B & G Tankless Type Heater has been designed to fulfill a need for a heater of unusual capacity that could be installed in boiler rooms lacking space for storage tanks.



For all Steam, Vapor and Hot Water Heating Boilers

| Series Number | Coil Openings | Shell Openings | Boiler Water Capacities |       |       | Length | Diameter | Shipping Weight Pounds |
|---------------|---------------|----------------|-------------------------|-------|-------|--------|----------|------------------------|
|               |               |                | 180 F                   | 200 F | 212 F |        |          |                        |
| 12            | 3/4"          | 2"             | 110                     | 175   | 225   | 32"    | 12"      | 106                    |
| 16            | 3/4"          | 2 1/2"         | 145                     | 246   | 305   | 36"    | 12"      | 119                    |
| 20            | 3/4"          | 2 1/2"         | 175                     | 300   | 375   | 36"    | 12"      | 132                    |
| 30            | 3/4"          | 3"             | 250                     | 430   | 516   | 48"    | 12"      | 172                    |

#### B & G THERMO-VOIR

The Thermo-voir eliminates the need for constantly maintaining heat in the boiler, as required by the ordinary indirect heater. The water stored in the reservoir absorbs heat from the boiler during "off" periods of the burner, thereby reducing stand-by loss to a minimum. It permits the boiler to cool off almost completely if there is no demand for hot service water. For the first time, modern



boilers with small water content and large heat absorption can be economically used to indirectly heat Domestic Water.

#### B & G MONOFLO FITTINGS

The Monoflo Fitting makes a one-pipe hot water heating system truly practical. This device, when installed in place of the tee at each radiator's connections to the main, diverts hot water to the radiator and returns cooled water to the main. It assures correct distribution of water in either gravity or mechanically circulated systems. Sizes 1 in., 1 1/4

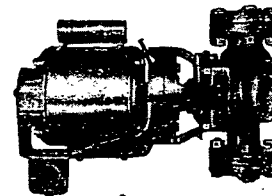


in., 1 1/2 in., 2 in., 2 1/2 in., 3 in.

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#### B & G BOOSTER



| Size No. Inches | Face To Face Dimensions Inches | Pipe Size Inches | Motor Hp 110 Volt 60 Cycle | Delivery Gallons per Minute | Approx. Shipping Weight Pounds |
|-----------------|--------------------------------|------------------|----------------------------|-----------------------------|--------------------------------|
| 1               | 8 1/2                          | 1 flanged        | 1/6                        | 20                          | 57                             |
| 1 1/4           | 8 1/2                          | 1 1/4 flanged    | 1/6                        | 30                          | 68                             |
| 1 1/2           | 8 1/2                          | 1 1/2 flanged    | 1/6                        | 48                          | 70                             |
| 2               | 8 1/2                          | 2 flanged        | 1/6                        | 70                          | 72                             |
| 2 1/2           | 9 1/4                          | 2 1/2 flanged    | 1/4                        | 100                         | 78                             |
| 3 L.D.          | 9 1/4                          | 3 flanged        | 1/4                        | 115                         | 82                             |
| 3               | 12                             | 3 flanged        | 1/3                        | 147                         | 136                            |

#### B & G FLO-CONTROL VALVES

Easily opened for gravity circulation by merely turning with the fingers the external wing extension of the valve stem.

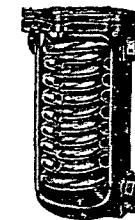
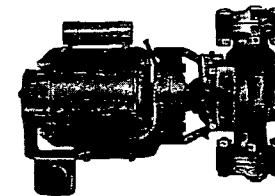
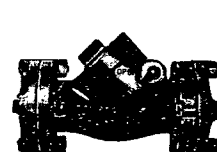
##### STRAIGHTWAY PATTERN

|        | 1 in.          | 1 1/4 in.      | 1 1/2 in.                   | 2 in.          | 2 1/2 in.      | 3 in.          |
|--------|----------------|----------------|-----------------------------|----------------|----------------|----------------|
| Conn's | Screwed 2 ends | Screwed 2 ends | Screwed 1 end Flanged 1 end | Flanged 2 ends | Flanged 2 ends | Flanged 2 ends |
| Weight | 5 lb           | 5 lb           | 17 lb                       | 25 lb          | 33 lb          | 56 lb          |

##### ANGLE PATTERN

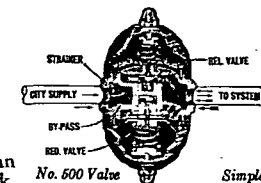
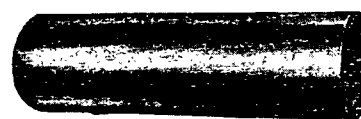
| Conn's | Screwed 2 ends | Screwed 2 ends | Flanged 2 ends | Flanged 2 ends |
|--------|----------------|----------------|----------------|----------------|
| Weight | 4 lb           | 4 lb           | 17 lb          | 23 lb          |

#### B & G TRIPLE DUTY SYSTEMS



A combination of B & G Booster, B & G Flo-Control Valve and B & G Indirect Heater, with the proper electrical controls comprises a B & G Triple Duty System.

#### D & T SIMPLEX AND SELF-FILLING "TANK-IN-BASEMENT" SYSTEMS



D & T Simplex System consists of an air-tight D & T Compression Tank, D & T Simplex Relief Valve and D & T Vacuum Breaking Valve. Capacities up to 4500 sq ft of radiation.

Self-Filling Air-Cushioned Tank Equipment consists of a D & T Compression Tank and a D & T No. 500 "All-in-One"

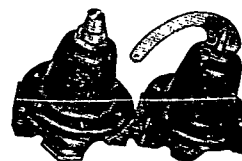
No. 600 Valve

Simplex Valve

Unit which performs the double duty of relieving excess pressure and keeping the system filled with water. Capacities to 4500 sq ft of radiation. Tanks can be installed either on floor or ceiling.

#### B & G NO. 3 DUAL UNIT

A Relief-Reducing Valve at moderate cost. Body and all parts exposed to water are bronze. Extra-large chemically treated composition diaphragm.



#### B & G THERMOCHEK

Controls automatically the temperature of hot water storage tanks heated by indirect heaters. Prevents lime and sediment formation in the heater coils. Sizes 1 1/2 in. and 2 in.

