

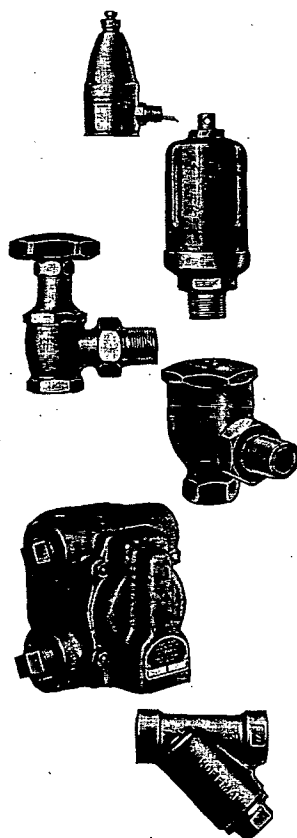
# HOFFMAN



## SPECIALTY MANUFACTURING CORP.

1700 WEST 10th ST. • INDIANAPOLIS 7, IND.

Manufacturers of a Complete Line of Steam and Hot Water Heating Equipment



AIR VENT VALVES • STEAM • WATER  
RADIATOR • CONVECTOR • MAIN  
UNIT HEATER VENT • SWIRLVENT

BUCKET TRAPS, INVERTED TYPE  
FOR STEAM SERVICE

CONDENSATION PUMPS  
CENTRIFUGAL TYPE

FLOAT AND THERMOSTATIC TRAPS  
FOR STEAM SERVICE

HOT WATER SPECIALTIES  
CIRCULATORS, VALVES, FITTINGS

PRESSURE REDUCING VALVES  
FOR STEAM-WATER-AIR-GAS-OIL

STRAINERS, "Y" TYPE  
CAST IRON-BRONZE

SUPPLY VALVES  
STEAM-WATER

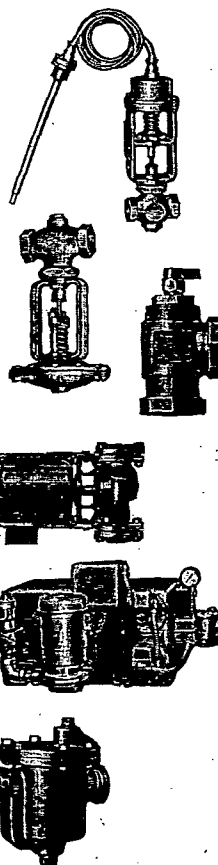
TEMPERATURE REGULATORS

THERMOSTATIC TRAPS  
LOW-MEDIUM-HIGH PRESSURE STEAM

VACUUM PUMPS  
CENTRIFUGAL TYPE

VACUUM BREAKERS

ZONE CONTROLS  
STEAM-HOT WATER



This listing gives an indication of the wide range of quality products in the complete line of Hoffman Steam and Hot Water Heating Equipment. For more specific information on product sizes, capacities, dimensions, operating pressures, etc., write for free catalogue: Hoffman Specialty Manufacturing Corp., 1700 W. 10th St., Indianapolis 7, Indiana.



# HYDROTHERM

DEPT. 13-AR, NORTHVALE, NEW JERSEY



## PACKAGED AUTOMATIC GAS HEATING PLANTS

Providing Space or Volume Water Heating  
for Residential, Commercial and Industrial Uses

50,000 BTU/hr to 3,600,000 BTU/hr INPUT RATINGS

### HYDROTHERM

HYDROTHERM boilers are of all cast iron construction and are exclusively designed for gas. The patented absorption unit, composed of deep-rib horizontal sections connected in zigzag, permits maximum heat transfer in minimum space with small water content. This "true" gas design results in low fuel consumption, quick heat response, uniform heat transfer, self cleaning flue passages, and small installation space. HYDROTHERM boilers are A.G.A.-approved for all gases and are factory assembled and wired with the finest safety and gas controls, ready for quick installation. Boiler and controls are enclosed in an attractively finished insulated steel jacket.



Model R-100  
with Hammered Finish Jacket:  
490 lbs. 21" x 31" x 35 1/2"

All boilers are tested at 250# hydrostatic pressure and carry a 100# ASME rating which permits direct connection of boilers to city water lines as required for volume water heating applications.

### MULTI-TEMP

MULTI-TEMP, a new concept in heavy duty gas-fired hot water heating, provides any desired capacity with a multiple of HYDROTHERM units, each equipped with its own controls. True input modulation is accomplished by having the separate boiler units fired or cut out in response to a special Minneapolis Honeywell electronic step-control. This control receives its signal from indoor-outdoor resistance bulbs. If the temperature in the supply header exceeds the desired setting, it simply steps back until the signals received from outside and inside are in balance. In less critical installations, boiler units can be controlled by aquastats with different settings in the return manifold.



Multi-Temp  
Model R-200:  
1800 lbs. 29" x 52" x 32"

MULTI-TEMP, being composed of multiple units, offers extra protection against service interruption. Each boiler unit is shipped completely assembled to simplify field installation.

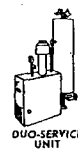
## CAPACITY RANGE OF HYDROTHERMS

| Model No.                       | Space Heating<br>A.G.A. Ratings        |                          |                                        |                                   |                         |                          |                                        |                                   | Volume Water Heating<br>Gallons per Hour for Temperature Rise Shown<br>A.G.A. Approved as Central Heating Boilers |                          |                                        |                                   |                         |                          |                                        |                                   |
|---------------------------------|----------------------------------------|--------------------------|----------------------------------------|-----------------------------------|-------------------------|--------------------------|----------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------|-----------------------------------|-------------------------|--------------------------|----------------------------------------|-----------------------------------|
|                                 | Natural, Mixed and<br>Manufactured Gas |                          |                                        |                                   | L.P. Gas<br>(Propane)   |                          |                                        |                                   | Natural, Mixed and<br>Manufactured Gas                                                                            |                          |                                        |                                   | L.P. Gas<br>(Propane)   |                          |                                        |                                   |
|                                 | Input<br>1000<br>Btu/hr                | Output<br>1000<br>Btu/hr | Net I.B.R.<br>Rating<br>1000<br>Btu/hr | E.D.R.<br>sq ft<br>1000<br>Btu/hr | Input<br>1000<br>Btu/hr | Output<br>1000<br>Btu/hr | Net I.B.R.<br>Rating<br>1000<br>Btu/hr | E.D.R.<br>sq ft<br>1000<br>Btu/hr | Input<br>1000<br>Btu/hr                                                                                           | Output<br>1000<br>Btu/hr | Net I.B.R.<br>Rating<br>1000<br>Btu/hr | E.D.R.<br>sq ft<br>1000<br>Btu/hr | Input<br>1000<br>Btu/hr | Output<br>1000<br>Btu/hr | Net I.B.R.<br>Rating<br>1000<br>Btu/hr | E.D.R.<br>sq ft<br>1000<br>Btu/hr |
| BUCKET TRAP                     | M-50*                                  | 50                       | 40                                     | 30                                | 200                     | 50                       | 40                                     | 30                                | 200                                                                                                               | 50                       | 40                                     | 30                                | 200                     | 50                       | 40                                     | 30                                |
|                                 | M-75*                                  | 75                       | 57.8                                   | 43.5                              | 290                     | 75                       | 57.8                                   | 43.5                              | 290                                                                                                               | 75                       | 57.8                                   | 43.5                              | 290                     | 75                       | 57.8                                   | 43.5                              |
|                                 | M-82*                                  | 82                       | 62.5                                   | 49.5                              | 330                     | 80                       | 64                                     | 48                                | 320                                                                                                               | 98                       | 79                                     | 66                                | 390                     | 98                       | 79                                     | 66                                |
|                                 | M-85*                                  | 85                       | 76                                     | 57                                | 330                     | 95                       | 78                                     | 57                                | 330                                                                                                               | 114                      | 91                                     | 70                                | 350                     | 114                      | 91                                     | 70                                |
|                                 | R-108                                  | 108                      | 86.4                                   | 64.5                              | 430                     | 108                      | 86.4                                   | 64.5                              | 430                                                                                                               | 130                      | 104                                    | 85                                | 74                      | 130                      | 104                                    | 85                                |
|                                 | R-125                                  | 125                      | 100                                    | 75                                | 500                     | 120                      | 96                                     | 72                                | 480                                                                                                               | 140                      | 116                                    | 88                                | 88                      | 140                      | 116                                    | 88                                |
|                                 | R-155                                  | 155                      | 124                                    | 93                                | 630                     | 155                      | 124                                    | 93                                | 630                                                                                                               | 180                      | 145                                    | 110                               | 108                     | 180                      | 145                                    | 110                               |
|                                 | R-180                                  | 180                      | 144                                    | 108                               | 720                     | 180                      | 144                                    | 108                               | 720                                                                                                               | 215                      | 173                                    | 134                               | 124                     | 215                      | 173                                    | 134                               |
|                                 | R-210                                  | 210                      | 168                                    | 126                               | 840                     | 210                      | 168                                    | 126                               | 840                                                                                                               | 255                      | 202                                    | 159                               | 145                     | 255                      | 202                                    | 159                               |
|                                 | R-250                                  | 250                      | 200                                    | 150                               | 1,000                   | 250                      | 200                                    | 150                               | 1,000                                                                                                             | 300                      | 240                                    | 180                               | 173                     | 300                      | 240                                    | 180                               |
| MULTI-TEMP<br>BUCKET TRAP       | R-300                                  | 300                      | 240                                    | 180                               | 1,300                   | 300                      | 240                                    | 180                               | 1,300                                                                                                             | 360                      | 288                                    | 216                               | 216                     | 360                      | 288                                    | 216                               |
|                                 | R-380                                  | 380                      | 304                                    | 228                               | 1,640                   | 380                      | 304                                    | 228                               | 1,640                                                                                                             | 430                      | 350                                    | 260                               | 250                     | 430                      | 350                                    | 260                               |
|                                 | R-430                                  | 430                      | 344                                    | 255                               | 1,880                   | 430                      | 344                                    | 255                               | 1,880                                                                                                             | 510                      | 410                                    | 310                               | 290                     | 510                      | 410                                    | 290                               |
|                                 | R-500                                  | 500                      | 400                                    | 300                               | 2,000                   | 500                      | 400                                    | 300                               | 2,000                                                                                                             | 600                      | 480                                    | 360                               | 340                     | 600                      | 480                                    | 340                               |
|                                 | R-600                                  | 600                      | 480                                    | 360                               | 2,400                   | 600                      | 480                                    | 360                               | 2,400                                                                                                             | 720                      | 580                                    | 440                               | 400                     | 720                      | 580                                    | 440                               |
| MULTI-TEMP<br>MULTI-TRAP JACKET | R-750                                  | 750                      | 600                                    | 450                               | 3,000                   | 750                      | 600                                    | 450                               | 3,000                                                                                                             | 900                      | 720                                    | 540                               | 480                     | 900                      | 720                                    | 540                               |
|                                 | R-900                                  | 900                      | 720                                    | 540                               | 3,600                   | 900                      | 720                                    | 540                               | 3,600                                                                                                             | 1,080                    | 864                                    | 648                               | 576                     | 1,080                    | 864                                    | 576                               |
|                                 | R-1000                                 | 1,000                    | 800                                    | 600                               | 4,000                   | 1,000                    | 800                                    | 600                               | 4,000                                                                                                             | 1,200                    | 960                                    | 720                               | 630                     | 1,200                    | 960                                    | 720                               |
|                                 | R-1200                                 | 1,200                    | 960                                    | 720                               | 4,800                   | 1,150                    | 928                                    | 696                               | 4,640                                                                                                             | 1,450                    | 1,160                                  | 870                               | 740                     | 1,450                    | 1,160                                  | 870                               |
|                                 | R-1500                                 | 1,500                    | 1,200                                  | 900                               | 6,000                   | 1,500                    | 1,180                                  | 870                               | 5,800                                                                                                             | 1,800                    | 1,440                                  | 1,080                             | 900                     | 1,800                    | 1,440                                  | 1,080                             |
|                                 | R-1800                                 | 1,800                    | 1,440                                  | 1,080                             | 7,200                   | 1,740                    | 1,382                                  | 1,054                             | 7,020                                                                                                             | 2,170                    | 1,740                                  | 1,340                             | 1,080                   | 2,170                    | 1,740                                  | 1,080                             |
|                                 | R-2100                                 | 2,100                    | 1,680                                  | 1,260                             | 8,400                   | 2,084                    | 1,624                                  | 1,216                             | 8,200                                                                                                             | 2,530                    | 2,020                                  | 1,510                             | 1,180                   | 2,530                    | 2,020                                  | 1,180                             |
|                                 | R-2400                                 | 2,400                    | 1,920                                  | 1,440                             | 9,600                   | 2,376                    | 1,872                                  | 1,408                             | 9,400                                                                                                             | 2,910                    | 2,320                                  | 1,760                             | 1,360                   | 2,910                    | 2,320                                  | 1,360                             |
|                                 | R-2700                                 | 2,700                    | 2,160                                  | 1,620                             | 10,800                  | 2,616                    | 2,058                                  | 1,536                             | 10,600                                                                                                            | 3,250                    | 2,600                                  | 1,970                             | 1,480                   | 3,250                    | 2,600                                  | 1,480                             |
|                                 | R-3000                                 | 3,000                    | 2,400                                  | 1,800                             | 12,000                  | 2,860                    | 2,220                                  | 1,664                             | 12,010                                                                                                            | 3,610                    | 2,890                                  | 2,210                             | 1,660                   | 3,610                    | 2,890                                  | 1,660                             |
| MULTI-TEMP<br>MULTI-TRAP JACKET | R-3200                                 | 3,200                    | 2,560                                  | 1,920                             | 12,800                  | 3,104                    | 2,352                                  | 1,784                             | 12,810                                                                                                            | 3,850                    | 3,080                                  | 2,370                             | 1,780                   | 3,850                    | 3,080                                  | 1,780                             |
|                                 | R-3600                                 | 3,600                    | 2,880                                  | 2,160                             | 14,400                  | 3,408                    | 2,592                                  | 1,936                             | 14,410                                                                                                            | 4,340                    | 3,470                                  | 2,690                             | 2,000                   | 4,340                    | 3,470                                  | 2,000                             |
|                                 | R-4000                                 | 4,000                    | 3,200                                  | 2,400                             | 16,000                  | 3,712                    | 2,816                                  | 2,112                             | 16,020                                                                                                            | 4,830                    | 3,860                                  | 2,900                             | 2,100                   | 4,830                    | 3,860                                  | 2,100                             |
|                                 | R-4500                                 | 4,500                    | 3,600                                  | 2,700                             | 18,000                  | 4,016                    | 3,040                                  | 2,272                             | 18,030                                                                                                            | 5,320                    | 4,250                                  | 3,190                             | 2,300                   | 5,320                    | 4,250                                  | 2,300                             |

\* A.G.A. approved for installation on combustible flooring.

† Net I.B.R. ratings BTU/hr are based on piping and pickup factors established by the Institute of Boiler and Radiator Manufacturers. Load connected to the boiler may be increased 12% over stated I.B.R. rating when less than normal pickup and piping losses are encountered as on series loop baseboard and radiant heating installations.

OTHER  
FAMOUS  
HYDROTHERM  
PRODUCTS



DUO-SERVICE  
UNIT



COMPLETELY  
PACKAGED  
BOILER



HYDRO-FIN