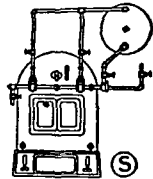


McDERMOTT WATER HEATERS, INC.

101 Park Avenue

New York City

SOLD BY JOBBERS AND BOILER MANUFACTURERS



Installation—Minimum cost and time required for the installation of McDermott Water Heaters are outstanding features. The reason is as follows: A clearance hole (not threaded) is cut in a few minutes. Two holes are drilled alongside and tapped $\frac{3}{8}$ " (pipe size). The $\frac{3}{8}$ " stud bolts furnished are placed in the two holes and when the nuts are on the job is done. It's a flange connection. 1 gasket (also serves as a template), a thermometer, 1 pressure relief 125 lbs., complete instructions and blue print of connections between boiler and tank accompany each shipment.

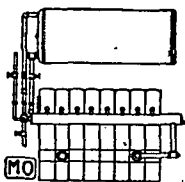
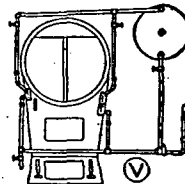
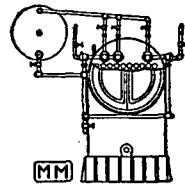
Specify the number of long units 2" shorter than the longest boiler tubes, that will total the tank requirements.

For Tankless Heaters specify 4 V4106 or 3, if V4108, M4210 or M4212 units

Ratings When Used With Tanks

Size	Length	Capacity, Gallons	Tank Connections Inches
V4103	3' 0"	150	1 1/4"
V4106	6' 0"	245	1 1/4"
V4108	8' 0"	350	1 1/4"
M4210	10' 0"	550	2"
M4212	12' 0"	800	2"

Ratings based on 100° temperature rise in three hours and delivery is assured as rated.



are used. They connect in series, 1 1/4" pipe if V type, and raise 9,000 G.P.H. 140° F. If M type, no larger than 2" pipe is used to series the units which will raise 19,000 G.P.H. 140° F. Both ratings at 50 lb. pressure and 200° F. boiler water. McDermott Tankless units enable you to specify any tubular boiler for instantaneous water heating.

HEATER CONTROL AND CLEAN-OUT VALVES

HOT WATER SUPPLY TO BUILDING

HOT WATER RETURN FROM BUILDING

HEATED WATER TEMPERATURE

BOILER WATER TEMPERATURE FOR SUMMER FIRING

PRESSURE RELIEF

The National Pipe Bending Co.

104 River Street, New Haven, Conn.

Offices in the Following Cities:

ATLANTA, GA.
BALTIMORE, MD.
BOSTON, MASS.

BUTTE, MONT.
CHICAGO, ILL.
CINCINNATI, OHIO

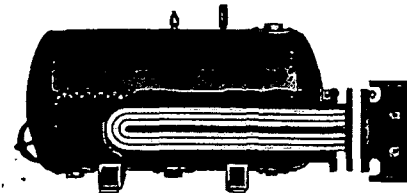
CLEVELAND, OHIO
DENVER, COLO.
DULUTH, MINN.

LOS ANGELES, CALIF.
MEMPHIS, TENN.
MINNEAPOLIS, MINN.

NEW YORK, N. Y.
PHILADELPHIA, PA.
PITTSBURGH, PA.

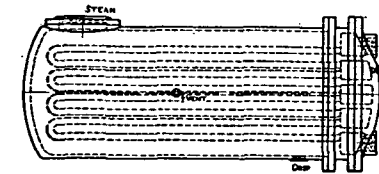
PRODUCTS—Water Storage Heaters, Instantaneous Water Heaters, Swimming Pool Heaters, Feed Water Heaters, Coal Burning Tank Heaters, Oil Burning Tank Heaters, Special Heaters, Coolers for all purposes, Coils and Bends of Pipe and Tubing.

National Red Head Storage Heaters



A line of well built heaters stocked in sizes and capacities most generally used. Equipped with U-Bend heating element of Anaconda Copper. Steel Tank. Improved flanged T cover gives unrestricted flow area for entering steam. Tested to 100 lbs. working pressure, 150 lbs. hydrostatic pressure. For installations requiring heaters other than listed below use regular National individually engineered heaters described in Bulletins No. 55, 57, 65. Our engineering service is at your command.

National Instantaneous Heaters



Furnished in Water or Steam Tube types for gravity or pressure circulation.

Heats water as it flows either continuously or intermittently. Built for steam pressures up to 75 lb. per sq. in. U-Bend copper tubes through which the water passes are fitted into a cast iron or steel shell through which the steam for heating is passed. Made in sizes from 210 to 12,000 gal. of hot water per hour at temperatures from 40° to 180° F.

DATA to be used with RED HEAD Heaters

SHELLS (Horizontal) Manhole 11" x 15" in all sizes above 18".						HEATING ELEMENTS Temperature range based on heating water from 50 degrees to 180 degrees F. at steam pressure 0 to 5 lbs.			
No.	Gallons One Filling	Size of Shell	Thickness of Shell	Thickness of Head	Weight of Shell	No.	Gallons per Hour	Smallest Shell into which element goes Inches	Weight of Element Lbs.
A	80	18x 72	3/8	3/8	380	NS-1	80	18x 72	85
B	141	24x 72	3/8	3/8	530	NS-2	100	18x 72	88
C	220	30x 72	1/4	3/8	870	NS-3	150	18x 72	96
D	310	36x 72	1/4	3/8	1020	NS-4	200	18x 72	117
E	365	36x 84	1/4	3/8	1130	NS-5	250	18x 72	122
F	475	36x 108	1/4	3/8	1350	NS-6	300	18x 72	185
G	575	42x 96	3/8	1/2	1750	NS-7	350	36x 84	189
H	645	42x 108	3/8	1/2	1900	NS-8	400	36x 84	195
I	720	42x 120	3/8	1/2	2050	NS-9	450	42x 96	205
J	860	48x 144	3/8	1/2	2350	NS-10	500	42x 96	210
K	940	48x 120	3/8	1/2	2410	NS-11	600	42x 96	260
L	1130	48x 144	3/8	1/2	2770	NS-12	700	42x 108	270
M	1300	48x 168	3/8	1/2	3100	NS-13	800	42x 108	285
N	1425	54x 144	3/8	3/8	3750	NS-14	900	42x 108	343
O	1665	54x 168	3/8	3/8	4300	NS-15	1000	42x 108	357
P	2000	60x 168	3/8	3/8	5200	NS-16	1250	42x 108	440
Q	2460	72x 144	1/2	3/8	6500	NS-17	1500	42x 108	468
R	2875	72x 168	1/2	3/8	7600	NS-18	1750	42x 108	575
						NS-19	2000	42x 108	620
						NS-20	2500	42x 108	755

How to Specify NATIONAL RED HEAD STORAGE HEATERS. Combine the number of the required storage and heating elements. To heat 1000 gallons per hour with a storage capacity of approximately 500 gallons, refer to tables above and specify one National Red Head Heater NS-15-F.