

Unusual Hot Water Heating Method

With Radiators on a Level with Boiler, Risers to High Radiators Are Connected in New Way, and Return from the Low Radiator Rises Up to Main Above.

IN a new house in upper New York state a hot water heating job having unusual features came to the attention of the writer. The installation required that four radiators in the basement of the building and on a level with the boiler be heated from the usual circulation lines. It is customary in such cases to run what is called a loop up to the highest available radiator in the building, and then have this loop run down to connect into the low radiators and from there back to the boiler.

In the installation in question, however, the old method of the loop was not used, and since the radiators are working very well it seems that the method employed is thoroughly practicable. Another unusual feature is that whereas with low radiators a separate return is usually carried from them back to the boiler. In this case, the regular return line for the rest of the house was used. This return line is up near the ceiling of the basement, and the returns from the low radiators were piped so that the return flow from them had to rise to the return main.

The accompanying sketch demonstrates the piping to one of these radiators. All the others were connected in similar fashion. It will be noticed that the risers going to a radiator on the second floor are connected together below the radiator by a sort of by-pass. The return from the second floor radiator becomes the feed or flow for the radiator in the basement. This pipe is connected to one end of the low radiator at the top. And from the other end of the radiator at the bottom the circulation is carried up to a pipe four or five feet above to where it connects into the return main to the boiler.

These low radiators are separately valved, and in order to provide a circulation, in case at any time these radiators are shut off, another by-pass is provided in the connections to them. Had this return pipe from the second floor radiator been connected directly into the low radiator and provided with a valve, it would mean that if the low radiator were at any time turned off that the circulation to the upper radiator would also be stopped. The by-pass permits the upper radiator to keep circulating, and since the rooms in the basement of this house are half-way underground, and therefore likely to be quite warm, it was expedient that valves be provided on the radiators.

The job in question has been in operation for over a month at

this writing, and to all appearances these low radiators are circulating in an entirely satisfactory manner. The boiler used was a Gurney, No. C-407, with twenty-two radiators throughout the building. The work was installed by Philip Sullivan, foreman for M. Cohen, master plumber and steamfitter, of Bloomingdale, N. Y.

POINTED PARAGRAPHS

We are all born with the idea of success in our hearts, but nature expects us to earn it. If we have a large wish-bone and no backbone, we will fail as surely as the sun shines.

Business without a bookkeeping system is like a ship without a rudder. It runs 'round and 'round until it is finally wrecked on the rocks.

Business is a matter of understanding. The better the understanding, the better the business.

Price fixing is no remedy. The price is always right if the man behind the business is all right.

