HOT WATER HEATING SYSTEMS

F. E. Gieseke, College Architect

Building, Ross Hall, Y M C A Building, and Hart Hall.

giving up a portion of its heat to the per hour, or 120 gallons per minute.

of 180 when the outdoor temperature ter, 120 gallons per minute, through is 25, if the temperature in the build-the Hart Hall heating system. ing is to be maintained at 70. When the outdoor temperature is higher than 25, the average water temperature in the radiator must be lower the following table: For outdoor temperature of 35, 45, 55, and 65, respectively, the average water temperature in the radiators should be 158, 136, 114, and 88.

The heating system for Hart Hall was designed so that when the out-door temperature is 25, the water must be cooled 20 degrees while flowing through the radiators; i. e., the

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The college has two central hot water must enter the radiators at water heating systems. A smaller one, which serves the Library and the Acaevery pound of water flowing through
of knowledge as to the whereabouts which serves the Library and the Academic Building, and a larger one, which serves Milner Hall, Legett Hall, Mitchell Hall, Electrical Engineering Hart Hall will need 1,200,000 B. t. u. But this was more than offset by the server pound of water nowing through of knowledge as to the whereabouts of the fire, considerable delay was to the building. It is estimated that experienced in getting under way. But this was more than offset by the server pound of water nowing through of the green pound of the water nowing through of the green pound of the server pound of the water nowing through of the server pound of knowledge as to the whereabouts of the fire, considerable delay was to the whereabouts of the fire, considerable delay was to the whereabouts of the fire, considerable delay was to the whereabouts of the fire, considerable delay was to the whole and the fire of the fi per hour when the outdoor tempera-ture is 25 and the indoor temperature In both systems, the water is heat- is 70, consequently, during such a pered at the Power Plant and pumped iod a quantity of water which must from there to the several buildings be pumped from the Power Plant to where it flows through the radiators, Hart Hall and back is 60,000 pounds

The pipe system in Hart Hall was The radiators in Hart Hall were designed so that a pressure head of designed so that they must contain 3 feet of water will be required to water having an average temperature force the calculated quantity of wa-

Calculations similar to those described above for Hart Hall were made for the other six buildings served by the central heating system and than 180, approximately, according to it was found that the total quantity of water to be pumped through the larger heating system is about 525 gallons per minute.

> ates at a practically uniform speed being overheated by a stovepipe." regardless of the temperature of the water. Consequently, when the out-door temperature is 55 and the building needs 400,000 instead of 1,200,000 B. t. u. per hour, the water will be cooled 6 2/3 instead of 20 degrees, while flowing through the radiators.

If, for that condition, the average temperature of the water in the radiator is to be 114, the water should enter the radiator at about 117 and leave at about 110.

In this manner the following table was prepared to guide the engineer in charge of the heating system in regulating the temperature of the water according to the varying outdoor temperatures and according to the desired indoor temperatures during the various portions of the 24-hour day.

For Outdoor	water Entering
Temperature	Building
25°	190°
35	166
45	142
55	117
65	90
Water Leaving	Average in
Building	Building
170°	180°
150	158
130	136
110	114
86	88

This table is based on calculations which may not be sufficiently accurate. If the temperatures listed in the table are too high, the rooms will be too warm; if the temperatures are too low, the rooms will not be warm enough.

In order to prepare a table which is sufficiently accurate, it is necessary to have the co-operation of the students who should observe the temperatures in their rooms carefully and report to W. H. Badgett the exact times when their rooms were not propertly heated; this report should, if possible, include the temperature of the room.

A portable recording thermometer will be available to study the changes in temperature within the buildings.

Continuous records of the outdoor temperature and of the water temperatures will be kept. The recording thermometer for outdoor temperatures is located on the rear porch of Ross Hall. A recording thermome-ter for the water temperatures in

Fire Fighters Get First Call Of Year

Led by their gallant chief, Captain Jack Baggett, B Battery took off last Sunday afternoon for the first fire of the season, a shower house in of knowledge as to the whereabouts the dogged determination of the crew to quench the flames as quickly as possible upon their arrival

Emerging from the station at a terrific rate of speed, the two trucks were neck-and-neck for the first block of the run, but the hose department piloted by Baggett, soon forged into the lead. However, it was pressed closely by the heavier, more modern hook-and-ladder truck because of the skillful driving of assistant chief J. B. Clark. Breaths were held, eye closed, and hearts stood still at the their unselfish efforts to save life and property.

Various opinion have been advanced by onlookers as to the origin of the The pump which circulates the water through the heating system operior is about 25 grain and 25

> out the home, must impart knowledge specifically useful to the individual according to his peculiar nature, if it is to accomplish results ethically valuable.—Howard Madison Parshley.

Hart Hall will be located under the stair case of Ramp F.

Thermometers have also been installed in Milner Hall, Legett Hall, and Mitchell Hall so that the temperatures of the water entering and leaving those buldings can be easily ascertained.

Knowing the outdoor temperature and the water temperatures, and have ing a report from the occupants of the halls regarding the character of the heating of the rooms, it will be possible to make such modifications of the table of prescribed temperatures as may be necessary to secure satisfactory heating of the dormitories at all times.

(To be Continued)

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