

Unit 33

Hydronic Heat

OBJECTIVES

After studying this unit, you should be able to:

- describe a basic hydronic heating system.
- describe reasons why it is desirable for a hydronic system to have more than one zone.
- list four heat sources commonly used in hydronic heating systems.
- explain the difference between a wet-basis and a dry-basis boiler.
- state the reason a boiler is constructed in sections or tubes.
- discuss the reasons why air should be eliminated from hydronic heating systems.
- explain the effects air has on a cast-iron or steel boiler.
- describe the function of the air cushion or expansion tank.
- explain the operation of circulator pumps as they apply to hydronic heating systems.
- describe the importance of the "pressure-pressure change".
- describe the purpose of limit controls and flow-water cutoff devices.
- state the purpose of a pressure relief valve.
- state the purpose of a zone valve.
- list the various types of zone valves that are available.
- explain how "outdoor reset" can be used to increase system efficiency.
- sketch a series-loop hydronic heating system.
- sketch a one-pipe hydronic heating system.
- explain the function of the diverter tee.
- explain the differences between a two-pipe, direct-return hydronic heating system and a two-pipe, reverse-return hydronic heating system.
- explain the application that requires the use of a balancing valve.
- list the benefits of primary-secondary pumping.
- describe the operation and function of mixing valves.
- describe the differences between radiant and conventional hydronic heating systems.
- list three common types of radiant heating system installations.
- describe a tankless domestic hot water heater used with a hydronic space-heating system.
- list preventive maintenance procedures for hydronic heating systems.
- describe the differences between passive and active solar systems.
- describe the declination angle and the effect it has on the sun's radiation during winter and summer.
- list the typical components in a liquid-based solar system and describe the function of each.
- describe the operation of a solar domestic hot water system.
- describe a swimming pool solar-heating system.

SAFETY CHECKLIST

- 1. When checking a motor pump coupling, turn off the power and lock and tag the disconnect before removing the cover to the coupling.
- 2. If you are checking the electrical wires to a pump that has a contactor, shut off the power and remove the cover to the contactor. Do not touch any electrical connections with your hands until you have placed one alligator lead on a ground source such as a conduit. Then touch the other alligator lead to every electrical connection in the contactor box. The reason for this is that some pumps are connected electrically with other disconnects and a circuit from another source may be in the box.
- 3. Ensure that all controls are working properly in a hot water system. Because an overheated boiler has great potential for explosion.
- 4. If an anti-freeze solution is used in a solar domestic hot water system, a double-walled heat exchanger must be used.

33.1 INTRODUCTION TO HYDRONIC HEATING

Hydronic heating systems are systems in which water or steam carries the heat through pipes to the areas to be heated. This text will cover only hot water systems because they are generally used in residential and light commercial installations.

In hydronic systems, water is heated and circulated through pipes to a heat transfer component called a **terminal unit**, such as a radiator or finned-tube baseboard unit. Here heat is given off to the air in the room. The cooler water is then returned to the heat source to be reheated. In most residential installations, there is no forced moving air in these systems, and if properly installed there will be no hot or cold spots in the conditioned space. Hot water stays in the tubing and heating units even when the boiler is not running, so there are no sensations of rapid cooling or heating, which might occur with forced-warm-air systems. Air-conditioning cannot readily be added to a structure that has hydronic heat. Usually, the hydronic system will not accommodate it, and a separate duct system must be added. Then the structure will have two complete systems.

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D Keegan



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Federal Register ,1988-06-13 Domestic Engineering ,1968 **Air Conditioning Heating & Refrigeration News** ,1980 **Scientific and Technical Aerospace Reports** ,1979 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Mother's Homebuilding & Shelter Guide** Robert G. Miner,1983 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1977 Journal of Electricity ,1963
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