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People often ask me for central heating diagrams showing how the pipework circuits are arranged in a central heating system. There are almost infinite variations but there are four main types; Gravity. One-pipe. Semi-gravity. Fully-pumped. The first two are completely obsolete in domestic heating and only rarely encountered. The other two are commonplace.

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The Domestic heating guide was produced by the Domestic Building Services Panel to assist professional heating engineers to specify and design wet central heating systems. It provides a method of coming to agreement with the client as to what is needed and will be provided.

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Central Heating Systems There are a variety of central heating systems. Each uses specific boiler technology in various ways. Combination, condensing and systems boilers are the most common types of heating systems and can run on a variety of fuels. Gas - condensing boilers typically use a gas such as propane to heat water, which is then

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Common heating controls Most 'wet' central heating systems will have one or more of the following controls: • A boiler thermostat • A programmer or timer • A room thermostat • Thermostatic Radiator Valves • A hot water cylinder thermostat (standard boilers with hot water storage only)

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Pipes for central heating systems can be either copper or plastic, and come in many sizes from 8mm to 35mm in diameter. In domestic central heating systems the

most common pipe sizes are 28mm, 22mm and 15mm. The type of pipework used in a system is dependent upon a number of factors.

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A central heating system powered by a boiler and made up of radiators and underfloor heating, which also provides your hot water (this is the most common type of system to be found in the UK). Individual storage heaters - or stand-alone heaters - and a boiler providing you with hot water.

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single pipe - feed and return - micro bore. A water central heating system consists of basically the boiler, the radiators and the interconnecting piping. The boiler heats the water and (normally) a pump circulates the water through the pipework and radiators and back to the boiler. There are a number of different arrangements of boiler, pipework and supply to the radiators; each systems has its own advantages and drawbacks.

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An important aspect of the way a heating system is designed is the way heating is divided into physical zones, and the controls used to regulate heating. These are discussed in a separate article: *Central Heating Controls and Zoning; Pipework Pipework materials Copper*. Traditional material. Available in various grades and sizes.

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So, the simplest of all systems would have: a boiler (which uses power to heat

up water and incorporates a pump to move it around) piping (to move that warm water around your house) emitters (whether it be radiators or underfloor heating) hot water cylinder (to store hot water for use as required, ...

#### Central heating diagram - Mike the Boilerman

Create a map of the central heating system you want to install. This will serve as a blueprint for installing all of the separate parts. Plan to install your boiler at a spot in your home that allows for easy connection to the water pipes, as well as the gas main, and offers a ventilation shaft to the roof.

#### How to Install Central Heating: 8 Steps (with Pictures ...

Central heating design for heating control can differ from house-to-house based on your requirements; and whether you are building a 'new' house, or upon the 'design' you inherited (already installed) in a ready built house. There are a number of heating control configurations you can use in your central heating design today.

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