Unit 113: Plumbing, heating and ventilation

# Worksheet 7: Hot water part 1 (tutor)

Complete the tasks in this worksheet as directed by your tutor:

1. What are the 2 main types of centralised hot water system?

* Storage
* Instantaneous

1. If a storage cistern was positioned 4m above the hot water cylinder, what would the pressure in the cylinder be in bars?
2. 4 bar
3. 10 bar
4. 0.1 bar
5. 0.4 bar
6. What is the most common material for a domestic cylinder to be manufactured from?
7. Steel
8. Brass
9. Chromium
10. Copper
11. Identify the parts / components labelled in the image:

A: Open vent pipe

B: Cold feed and expansion pipe

C: Hot water draw off

D: Cylinder

E: Hot water distribution pipe

F: Immersion heater



1. What type of system is shown in the image?

Open vented hot water system with direct cylinder

1. Try and add advantages and disadvantages of the system shown in the previous image in the table below:

|  |  |
| --- | --- |
| **Advantages** | **Disadvantages** |
| Independent of the heating system  Storage of hot water  No need for primary circuits from the boiler, therefore relatively simple installation  Suitable for cheaper electricity rates over night | Relatively low pressures due to cistern  Electrical supply required at cylinder |