Design of Heating and Chilled Water Pipe Systems

Agenda

09:15    Arrival – Registration / coffee / tea

09:30    Session 1

Introduction


Limits on velocities and Pressure gradients.

Pump sizing; Similarity laws, power consumption

Basic Piping Distribution arrangements; Single pipe, two pipe, reverse return, Ladder arrangement,

11:15    Coffee / tea break (15 mins)

11:30    Session 2

Plant Piping arrangements; Parallel with common pump and individual pumps, Modular boilers,

Secondary circuits

Pressure distribution diagrams

Cooling tower circuits

Variable flow systems; Characteristics constant flow/variable flow, benefits, pressure distribution, pumps, bypasses, Valves, Controllers.

13:00    Lunch (60 mins)

For more information about this course contact the training team:

training@cibse.org | cibse.org/training | +44 (0)20 8772 3660
14:00  Session 3

Facilities for cleaning and commissioning; Causes of blockages, removal of gases, Flushing, Cleaning, examples, biological contamination.

Economic selection of temperatures

Miscellaneous components; coils, pressurization units, isolating valves, commissioning valves, control valves, insulation, pumps, flexible connections, expansion

Characteristics of materials: Pipes and fittings (steel, copper, plastics), jointing

15:00  Coffee / tea break (15 mins)

15:15  Session 4

Q & A