Unit 113: Plumbing, heating and ventilation

# Worksheet 15: Hydronic heating part 7 – heat emitters (tutor)

Attempt all questions within this worksheet individually or as instructed by your tutor:

1. A close up of a device

   Description automatically generatedIdentify the types and styles of radiators in the images below:

G

F

E

A white door

Description automatically generatedA picture containing wall, indoor, white, sitting

Description automatically generatedA close up of a computer

Description automatically generated

A: Single panel

B: Single panel single convector

C: Double panel single convector

D: Double panel double convector

E: Seam top double panel double convector

F: Rolled top double panel double convector

G: Compact

1. Identify the radiator connection arrangements in the image below:

A: TBOE

B: BOE

C: TBSE

A picture containing screenshot

Description automatically generated

C

B

A

1. Which of the radiator connections is said to be the most efficient regarding heat transfer?

TBOE (said to be the most efficient distribution of heat through the radiator)

1. What is the recommended maximum surface temperature for heat emitters in schools and NHS properties?

43⁰C

1. What is the minimum distance required between the floor and the bottom of a radiator?

A minimum of 150mm from the floor as a recommendation

1. Identify the heat emitter below and label the parts:

A close up of a logo

Description automatically generated

Heat emitter type: Fan coil unit / Fan convector

Air in over filter

Electric fan

Heat exchanger

Air out to space or room