

Heat Pump to Radiator systems

Heat pumps can be used as the heat source to radiators but don't suit every home

Our advice

As a guide heat pumps can be used on radiator systems in modern well insulated homes up to around 200 Sq,m floor area.

They are not suited to larger open plan new homes or older homes which may not be well insulated or that have high ceilings.

Why?

Radiators are designed to offer their rated outputs when run in a boiler system. The given output is usually based on a flow temperature from the boiler in the region of 70 deg C with a return temperature around 10 degrees below this. An AW heat pump output Temperature can be no higher than 60 deg C and more often than not is around 55 deg C.

The transmission of heat convection rate is therefore lower, this makes heating big spaces where good convection is more important harder and less efficient.

Options -

- Aluminium radiators will transmit heat better than steel, but they tend to be more commercial in appearance.
- Fan coil radiators are designed to operate at lower temperatures so are ideal but do tend to be a little ugly and they incorporate a fan which will produce some low level background noise.

Our aim is always that the customer be fully informed, if you have any questions we are happy to talk to you about your project...

Got any questions please feel free to give us a call