

How does refrigeration react to:

Hot weather?

Cold weather?

- Which direction do you turn the thermostat to make the inside of the fridge colder – lower number or higher number?
- **The higher the ambient temperature, the higher the number on the control**
- Would you expect to defrost the ice box in a fridge more regularly in the summer?
- **Yes**
- Where does the defrosted water go when a fridge is **not** frost free?
- **Along the 'V' drainage channel at the rear of the fridge and down the drainage pipe**
- Why would you find water in the bottom of the fridge (allowing that you have not spilt something in it)?
- **If the drainage pipe is blocked.**
- **If something is pushed against the rear wall of the fridge pulling the water forward**
- **If the fridge is leaning forward**
- **If the ice box has not been defrosted and the ice build up is stopping the ice box door or main fridge door from closing**
- How do you clean the drainage channel and outlet pipe at the rear of the fridge?
- **Use Milton Sterilising Fluid and a pipe cleaner or spout cleaning brush**
- Where does the water end up when it disappears out of the back of the fridge?
- **Onto the tray above the compressor and then evaporates into the atmosphere**
- When you are making a cup of tea do you leave the fridge door open all the way through making the tea?
- **For the fridge to function correctly, items should be removed swiftly and the door closed immediately**
- How long does it take a fridge to get back down to temperature when you leave the door open?
- **Up to 6 hours unless the instruction book says otherwise**
- Should a fridge door be difficult to open?
- **The door should seal so well that it creates a vacuum so there should be some resistance when the door is first opened**
- Can you 'build in' a free standing fridge?
- **All free standing refrigeration should have air space all the way around it.**
- If you do, what will the result be either immediately or long term?
- **If the hot air from the compressor is unable to escape into the atmosphere, the fridge will have to work very hard to cool down, and in time the compressor will burn out**
- What is the ideal thermostat setting for a fridge in the summer?
- **5 - 6**
- What is the ideal ambient temperature for the room the fridge is situated in?
- **18°C**

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- What affect does a very low ambient temperature have on a
- a) fridge if the ambient temperature is lower than that being maintained in the fridge it will not turn on
- b) single thermostat fridge/freezer Because the fridge is cold enough it will not turn on, and the freezer food will start to thaw. When the inside of the fridge warms up the thermostat will activate the compressor and the partially defrosted food will re-freeze
- c) freezer It will continue to work provided the ambient temperature does not drop below that which it is maintaining

- What temperature range should be maintained in the fridge to ensure the safe storage of fresh food
- 0 °C and +8 °C
- What temperature range should be maintained in a
- a) one star -6 °C
- b) two star -12 °C
- c) three star -18 °C
- d) 4 star freezer? -24 °C
- How is the temperature in the freezer of a fridge/freezer with only one thermostat controlled.
- The temperature control in the fridge
- Why should you not position your fridge or fridge/freezer in a garage or conservatory?
- Very low temperatures will result in damaged frozen food in a fridge/freezer with one thermostat
- Very high temperatures will cause the compressor to work extremely hard and shorten its life
- Will the freezer work in low temperatures when part of a fridge/freezer with only one thermostat.
- Probably not
- What is the benefit of having two compressors and two thermostats in a fridge/freezer?
- If one half of the product fails the other will continue to work
- The freezer is less likely to be affected by low ambient temperatures
- What is the benefit of a frost free fridge/freezer?
- You do not have to defrost the freezer by turning the whole product off
- Food in the freezer will remain free running, ie peas and fruit
- You do not have to run you food down to clear the freezer of ice