

# Infra- Red Dryers

Ever walked past a paper machine drying section and observed equipment that looks like it is glowing red hot or on fire!



Paper machines have infra-red dryer equipment installed to assist in the drying of the sheet being produced and the levelling of the sheet profile (Evenness of sheet from one side to the other).

Infra-red dryers provide a compact, high-intensity heat source which transfers its energy without any physical contact with the paper. However, since the infra-red radiation unit supplies only a source of heat, air must also be provided to carry away the moisture evaporated from the paper. Computer controlled infra-red dryers are also used to control moisture streaks by focussing the evaporation of moisture on a specific target area of the sheet being produced.

Infra-red dryers have potential to cause a fire on a paper machine when the paper breaks and drapes over the dryer before it can be switched off. Consequently fire fighting equipment is located adjacent to the drying equipment.