



CLEAN HEAT

HEAT PUMPS

Many New Zealanders are choosing heat pumps for their energy efficiency – on average for every \$1 of electricity you pay you get \$4 worth of heat. Heat pumps have zero emissions so are a great choice to clean up the air.

PELLET BURNER

Enjoy the look of a woodburner with no chopping and stacking wood! Pellet burners burn compressed wood pellets which are made from sawmill waste – burning pellets is a form of recycling! Pellet burners have running costs comparable to heat pumps and extremely low emissions.

FLUED-GAS

Gas heaters can provide instant and easily adjustable heat. Gas is clean burning and has running costs just slightly higher than a heat pump. Make sure you choose flued gas – unflued can fill your house with nitrogen dioxide and carbon monoxide as well as water vapour which can make your house damp.

NES APPROVED WOODBURNER

Modern woodburners that meet the NES emissions requirements are available. The type, dryness and size of the wood, along with the way the burner is operated and maintained, can all affect the burner's emissions and efficiency.

Remember, insulating your home reduces the amount of heating you need to keep your home at a comfortable temperature.

SMOKE AFFECTS HEALTH

Did you know during winter the smoke from wood burners and open fires can cause up to 90 per cent of air pollution?

In winter many people burn wood to heat their homes. Burning wood creates smoke. Smoke carries small particles that are harmful to our health.

These particles are called PM_{10} – they are small enough to enter the lungs and can worsen allergies, asthma and respiratory infections, and can contribute to serious health problems such as heart disease.

Monitoring shows Te Kuiti, Tokoroa, Putaruru, Hamilton and Taupo regularly exceed the PM_{10} standard for healthy air.

Under the National Environmental Standards for Air Quality (NESAQ) a breach of the PM_{10} standard occurs when there has been two or more exceedances of the standard within a 12 month period. When this occurs, Waikato Regional Council is required to publicly notify the breach and put in place restrictions on fireplace use.

Restrictions on resource consents for industry to discharge PM_{10} into the air may also apply which may affect the local economy in the towns where the breach has occurred.

