

Polyflex

Energy Saving Flexible Duct

Advantages for using Polyflex
R1.0 thermally rated flexible duct
compared to standard duct*

- ✓ Higher energy efficiency
- ✓ Reduces emissions
- ✓ Reduces running costs
- ✓ Assists to maintain desired temperature
- ✓ Helps promote unit life span
- ✓ Made in Australia
- ✓ Fully backed by a 20 year warranty

* Standard duct refers to R0.6

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Your Energy
Saving Option



Fire rated to
Australian Standards



Your comfort is our commitment

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National Air Parts is a 100% Australian
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What is Polyflex R1.0 Flexible Duct?

Polyflex R1.0 Flexible Duct is an insulated flexible duct that efficiently delivers hot and cold air from heating or cooling units to areas of your home through either floor or ceiling vents.

Polyflex R1.0 Flexible Duct reduces running costs and retains air conditioned air which increases the life of your cooling or heating unit by achieving desired temperature levels faster.

What is insulation and how does it work?

Insulation is a thermal polyester layer that is added to duct to provide separation between inside and outside temperatures. It prevents the air temperature inside the duct from heating up or cooling down depending on what the outside air temperature is doing. By using **Polyflex R1.0 Insulated Duct** you are giving your heating/cooling system the best chance to run at its optimal level and deliver efficient heating and cooling.

Heating Systems

Poorly insulated duct will lead to higher running costs. On a cold day when the outside temperature might be between 0°C and 5°C, the inside roof temperature and floor space of a house is typically the same temperature.

Heating systems will generally deliver hot air at 60°C which means that insulated duct is required to maintain that temperature as much as possible without being affected by the outside air temperature. If a standard duct is used, your heating system will need to work a lot harder to reach the desired level of air temperature, which in turn increases running costs.

Cooling Systems

Poorly insulated duct will lead to higher running costs. On a hot day when the outside temperature is 40°, the inside roof temperature of a house is typically between 55°C and 70°C.

To prevent air conditioned air from heating up in a roof space, insulated duct is used to keep the cold air between 14° and 16°C. If standard duct is used, your air conditioner will need to work a lot harder to reach the desired level of air temperature, which in turn increases running costs.

See diagram below.

