

# What Makes the Eko Warrior the best choice Air Source Heat Pump?

The Eko Warrior is a split system consisting of one indoor unit and one outdoor unit MonoBloc ,single outside units, have all the heating outdoors this affects efficiency. The run from the unit into the house will **also lose around 70-90 Watts per metre in heat loss** as hot water has to leave the house go through the unit and back inside the house again COP figures quoted on MonoBloc units do not allow for this. The EKO Warrior keeps these major parts indoors which increases efficiency and will pro-long the life of the machine.

The Eko Warrior is Gas charged with R410A Refrigerant, which works out to be cheaper in yearly maintenance cost this is because a system using a Glycol/Antifreeze mix running in a lower temperature does not normally reach pasteurisation temperature, **allowing bacteria growth in a system**, which would need to be checked annually to safeguard the system from **freezing problems, heat loss, and overall performance due to:-**

- **Slime and fungal growth can restrict pipe diameters.**
- **Pumps and Manifolds can become blocked.**
- **Heat transfer capacity can be reduced, and efficiency reduced.**
- **Bacteria FEED on Glycol, and freeze protection declines.**
- **Potential for call outs, and failures can increase.**
- **If annual checks are not done, and the customer is not aware of these potential problems, who would be responsible for what could be expensive repairs?**

The Eko Warrior has many other advantages being gas charged with R410A Refrigerant means less heat loss as a gas transfers heat better than water, the outdoor unit can be further away from the indoor unit, and can be out of sight. The refrigerant is Ozone friendly and once the system has been charged with gas, it is sealed, and does not need topping up every year, **however if an accident was to happen, the gas used is none toxic unlike antifreeze, and will not contaminate, or even worse potentially kill.**