

# FAQ for ECO GFX

## **How does an ECO GFX work?**

As water fills down a vertical drop it spirals in a thin film around the circumference of the waste pipe. If you have a basin of water and pull the plug, you see the water spiral. The GFX has a copper waste pipe and the waste water spirals in a thin film around the inside circumference. The cold water in a copper tuber spirals around the outside of the waste pipe and the heat from the outgoing waste is transferred through the copper to the incoming cold without the two flows of water ever touching.

## **What is the efficiency?**

The efficiency for the standard G3-30 (30" high) is around 40% and for the smaller G3-20 (which is 20") it is around 30%.

## **What is a typical price for the ECO GFX?**

Please call us for prices.

## **What is a typical payback?**

Typical paybacks in the residential market are in the order of 2–3 years depending on all the variables.

## **What factors influence how quickly the cost of the unit is recovered?**

The variables include; number of people showering, the length of the showers, the cost of energy and the temperature of the water etc.

## **How easy are they to install?**

The installation is very simple. Two 'Plumbqwiks' are used, one at either end, to attach the unit to the waste pipe. The other cost is in plumbing the cold supply, which obviously varies depending on the complexity. The pre heated supply water can either be plumbed into the cold supply of the shower mixer, or into the hot water cylinder, or for maximum results, into both. For a new home the installation cost is practically zero.

## **What are the benefits of installing the ECO GFX?**

- 1) For an electric cylinder the first hour rating is 3 times! I.e. you can obtain 3 times the amount of hot water from the showers in the first hour because the water feeding into the cylinder from the ECO GFX is already pre-warmed.
- 2) The ECO GFX practically halves the costs of a shower which is usually the major use of hot water in a residential home.

3) From a homeowner's point of view, a smaller hot water cylinder can be installed. This saves space but also the 180 litre 'standard' cylinder is not always adequate for the amount of hot water used in the modern home.

**Is the ECO GFX suitable for gas?**

The ECO GFX is just as suitable for gas as for electricity, boilers or cylinders.

In fact the perceived advantage of the quick recovery of gas water heating is nullified, and considering the additional line and connection charges, an additional gas line may not be necessary.

**Is the ECO GFX suitable for Califonts?**

The ECO GFX can also dramatically increase the output of 'instant heat' type hot water units, whether they are electricity or gas. In fact savings can be even greater than for a standard hot water cylinder.

**Are there any limitations on installing the ECO GFX?**

The ECO GFX must be installed vertically and requires approximately 850mm vertical drop somewhere in the waste pipe after the shower drain. A smaller less efficient unit requires 500mm.

**Does the unit require cleaning?**

The ECO GFX is self-cleaning.

**How long will a unit last?**

The ECO GFX is made completely from copper so it will last as long as the copper piping used for the rest of the plumbing in the house.

**Are there any other benefits?**

The ECO GFX contributes positively to the environment by not only recovering waste heat but also reducing the temperature of the wastewater entering the ecosystem. This also helps lengthen the life of the Local Authorities wastewater drainage system.