

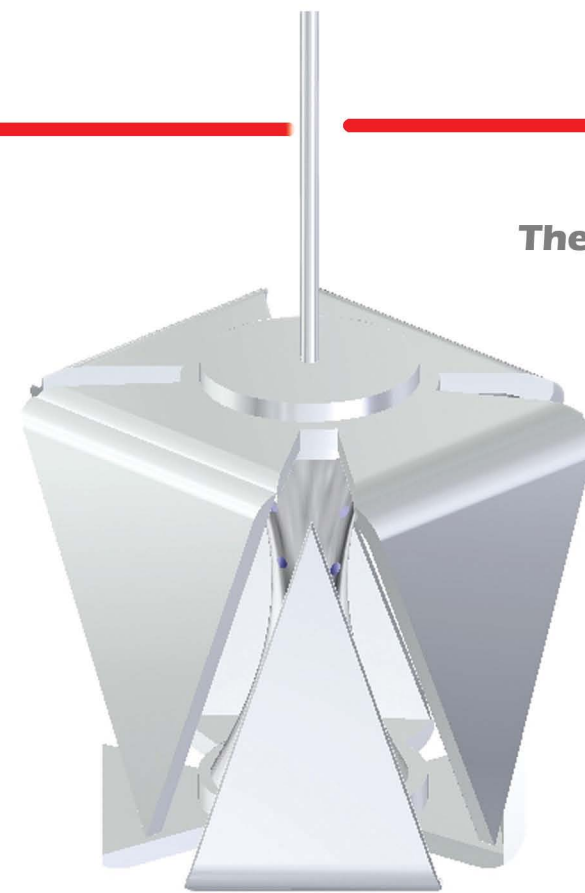


### Biomimetic Principles:

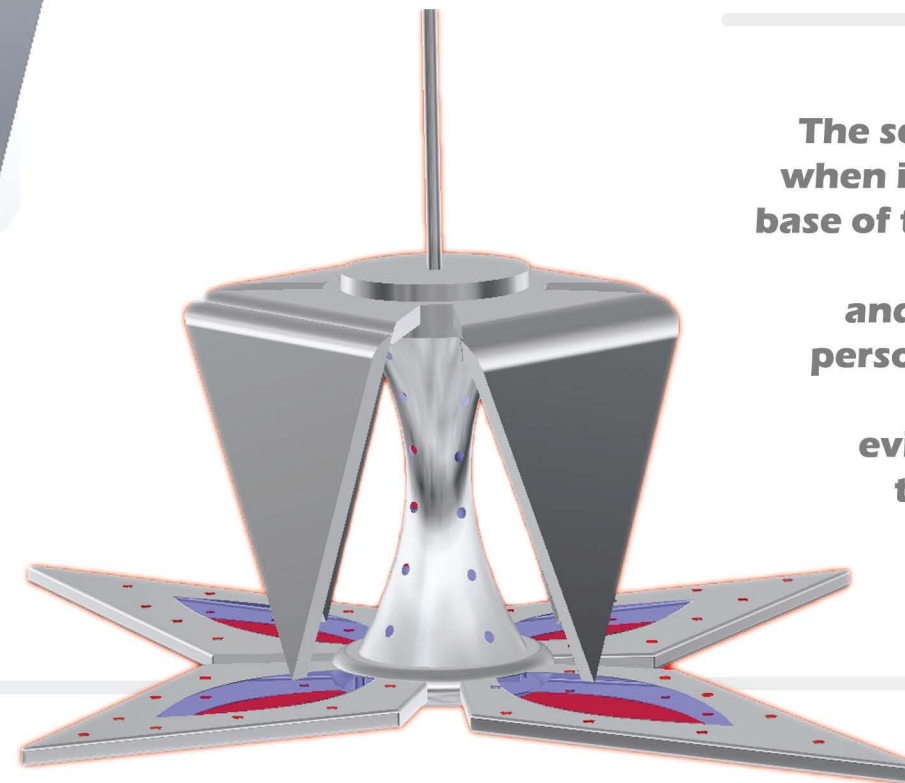
The Biomimetic principles applied to this product was the temperature sensitive Passionflower opening/closing mechanism and the Activated/Unactivated state of the Neon Tetra Fish. Explaining these further when the weather gets too hot or cold for the passionflower it closes up as shown above. The Neon Tetra when sleeping goes completely grey (unactivated state) but once it awakens (active state) the neon blue and red strobe runs through the fishes body.



Therefore the Bio-Blaze creation was born, The contemporary version of the current fire alarm.



The Un-activated state of the Bio-Blaze is conveyed like a lovely organic chrome fixture in the modern day home. Like the Biomimetic Principles shown to the left when not activated it is in its grey form and as it does not detect smoke or heat it is in its closed up state.



The semi-activated state of Bio-Blaze boasts that when it senses smoke from its smoke sensor at the base of the product, the bottom section opens up and the warming red L.E.D lights flash and warning tone are activated to make the person aware that it can sense the smoke and it could turn into a fire. The Principles evident at this stage is when it is activated the colours are reactivated like when a neon tetra fish awakens its strobes of light runs through its body.

The fully activated Bio-Blaze is in its fully glory, as once the heat sensor at the centre of the product senses the heat projected from the flames the top section opens up and starts spinning 360 whilst releasing fire extinguisher foam and water to try and difuse the fire below. The principles adopted at this stage is when the passion flower senses the warnth it opens up like the Bio-Blaze product. Plus as it is fully activated it has all the coloured lights flashing and is fully working like the active state of the neon tetre.

