

# Product Matrix

|                         | General Specification |             |             |                 |                   |               | Filter Network |              |               |              | Advanced Technology |           |             |               |                 |                |                | Finishes |                       |              |               |          |
|-------------------------|-----------------------|-------------|-------------|-----------------|-------------------|---------------|----------------|--------------|---------------|--------------|---------------------|-----------|-------------|---------------|-----------------|----------------|----------------|----------|-----------------------|--------------|---------------|----------|
|                         | Rack Width            | Power Strip | No. Outlets | Standard Fusing | Electronic Fusing | Standard Feet | RDC Feet       | Shunt Filter | Series Filter | Delta Filter | Protection Filter   | Polaris-X | C.F.C.C.C.* | Gating System | Adaptive Gating | Direct Coupled | Multiple Delta | K.E.R.P. | Triple Resonant Tech. | Black Option | Silver Option | Blue LED |
| <b>Titan</b>            | ✓                     |             | 2           |                 | ✓                 |               | ✓              | ✓            |               | ✓            |                     | ✓         | ✓           |               |                 | ✓              |                |          |                       | ✓            | ✓             | ✓        |
| <b>Titan Multi-Link</b> |                       | ✓           | 6           |                 |                   | ✓             |                | ✓            |               |              | ✓                   | ✓         | ✓           |               |                 |                |                |          |                       | ✓            | ✓             | ✓        |
| <b>Nova</b>             | ✓                     |             | 6           |                 | ✓                 |               | ✓              | ✓            |               | ✓            |                     | ✓         | ✓           |               | ✓               |                | ✓              |          |                       | ✓            | ✓             | ✓        |
| <b>Sigmas</b>           | ✓                     |             | 6           |                 | ✓                 | ✓             |                | ✓            | ✓             | ✓            | ✓                   | ✓         | ✓           |               | ✓               | ✓              | ✓              |          |                       | ✓            | ✓             | ✓        |
| <b>Aquarius</b>         | ✓                     |             | 6           | ✓               | ✓                 | ✓             |                | ✓            | ✓             | ✓            | ✓                   | ✓         | ✓           |               | ✓               | ✓              | ✓              | ✓        |                       | ✓            | ✓             | ✓        |
| <b>Vision</b>           | ✓                     |             | 6           | ✓               |                   | ✓             |                | ✓            | ✓             | ✓            | ✓                   | ✓         | ✓           | ✓             |                 |                |                |          |                       | ✓            | ✓             | ✓        |
| <b>Solus</b>            | ✓                     |             | 6           | ✓               |                   | ✓             |                |              |               | ✓            | ✓                   | ✓         | ✓           |               |                 |                |                |          |                       | ✓            | ✓             | ✓        |
| <b>Orion</b>            |                       | ✓           | 2-8         | ✓               |                   | ✓             |                | ✓            | ✓             | ✓            | ✓                   | ✓         | ✓           | ✓             |                 |                |                |          |                       |              | ✓             | ✓        |
| <b>Sirius</b>           |                       | ✓           | 6           | ✓               |                   | ✓             |                | ✓            |               | ✓            | ✓                   | ✓         | ✓           |               |                 |                |                | ✓        |                       | ✓            | ✓             | ✓        |
| <b>Mira</b>             |                       | ✓           | 2           | ✓               |                   | ✓             |                | ✓            |               | ✓            | ✓                   | ✓         | ✓           |               |                 |                |                |          | ✓                     | ✓            | ✓             | ✓        |

\*Prevents, Component From Component Cross Contamination

Information quoted in this catalogue is correct at the time of print. However, owing to our ongoing research and development programmes, improvements and small specification changes may result.

# Guide To Symbols



## Shunt Filter

This represents the simplest form of filter, placed between the live and neutral poles of the mains supply.



## Series Filter

A type of inductor, which is placed 'in-line' rather than between live and neutral like a shunt filter. This component is a very specialised design, as it requires minimal loss at mains frequency. IsoTek® has found that 'off the shelf' series filters are unable to offer sufficient bandwidth and flexibility; therefore, we design and produce our own to British Aerospace specification.



## Delta Filter

A sophisticated type of shunt filter that is connected across the three poles of the mains supply. The delta filter is often described as a practical solution for the worst effects of mains noise. It could be said that a delta filter is three different types of shunt filter in one.



## Multi Layer Delta Filter

For the ideal delta filter, you would use the perfect capacitor. However, the perfect delta arrangement for capacitors does not exist, as all capacitors suffer from some inductance. Multi-layer delta filters work something like a loudspeaker crossover unit, one section dealing with low frequencies (20KHz – 1MHz), the next medium and the final high radio frequencies.



## Protection Filter

The protection circuitry in IsoTek® products will be understood by most people to offer valuable protection to their hi-fi and home theatre equipment from potential damage owing to transient mains over-voltage. In fact, IsoTek® protection circuits deliver two-fold operation, with additional filtering helping the shunt filters deal with high-energy overload as well as component protection. Unlike less sophisticated solutions, this is achieved without destroying musical enjoyment.



## Polaris-X

This proprietary network helps to ensure that the electrons take the easiest route, thus reducing crosstalk and improving component-from-component isolation. The analogy would be that water does not run upstream. The Polaris-X principle is based upon Kirchhoff's two current laws..



## Gating

The Gating principles in IsoTek® circuits force balance between the various outputs, thus allowing for an optimum filtering environment.



## Adaptive Gating

Adaptive Gating automatically senses the requirements of the load in a similar manner to the iris of an eye adjusting to light. This system offers a universal system for both high-current and low-current devices, thus delivering the ultimate, continually fluid filtering environment.