



BEST PRACTICE IN THE CONTROL OF BY-PASS AIR IN SERVER RACKS

The Uptime Institute recommends the control of by-pass air to optimise the use of cooling air with the following steps:

- Fill all un-used U Space
- Fill all vertical gaps between 19" mountings and side panels or adjacent racks.
- Reduce air leakage though cable cut-outs in floor tiles
- Seal gaps around the room
- Prevent hot and cold air mixing or recalculating

These steps can be achieved by installing the following:

- By-pass air control blanking panels
- Vertical by-pass air control panels
- Brush grommets to floor tile cable cut-outs (or floor tile replacement products with integral brush grommets)
- Brush strip or foam
- The above or full Cold Aisle Containment

WHAT DOES IT ACHIEVE?

Studies have shown the following the guidance above results in:

- Optimised use of cooling air (virtually 100%)
- Cost savings
- Power savings
- Reduced carbon footprint
- Increased resilience
- Reduced hardware failure due to over heating
- Potential to increase rack density
- Potential increase in redundancy

For more information and to read case studies of cold aisle containment in use, visit www.ecoolsolutions.com