**Variable Volume Ratio (VVR) Compression Technology for Air-Cooled Chillers**

Daikin has upped the ante yet again, with a fully configurable chiller product with market leading efficiency in both full and part load performance. A key component of Daikin’s new Pathfinder AWV chiller is Variable Volume Ratio (VVR) technology, an industry-first for packaged air-cooled screw chillers. This technology allows the compressor to change the internal compression ratio as water and air temperatures fluctuate, to give the most optimal compression efficiency possible. Simply put, compared to previous screw technology, a VVR compressor will not only perform better at AHRI-standard conditions, it will perform better in real-world scenarios where air and water temperatures can fluctuate greatly. With VVR Compression technology, the compressor senses the amount of lift needed and adjusts the compression ratio on the fly to give the optimal efficiency at any operating condition. This means lower energy use, lower cost of ownership and lower carbon footprint.

More information found [HERE](#)