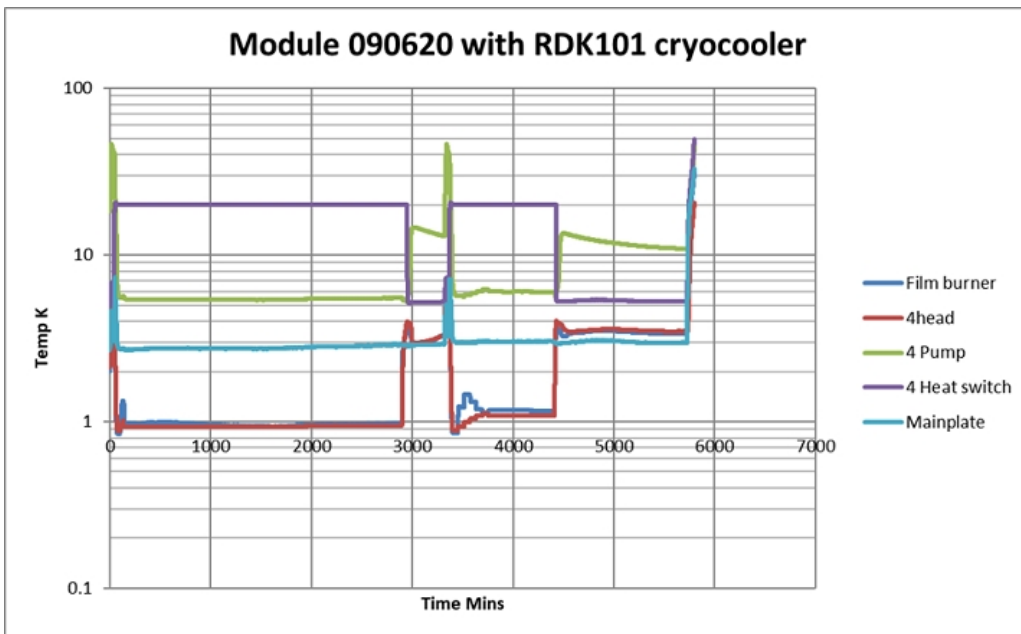


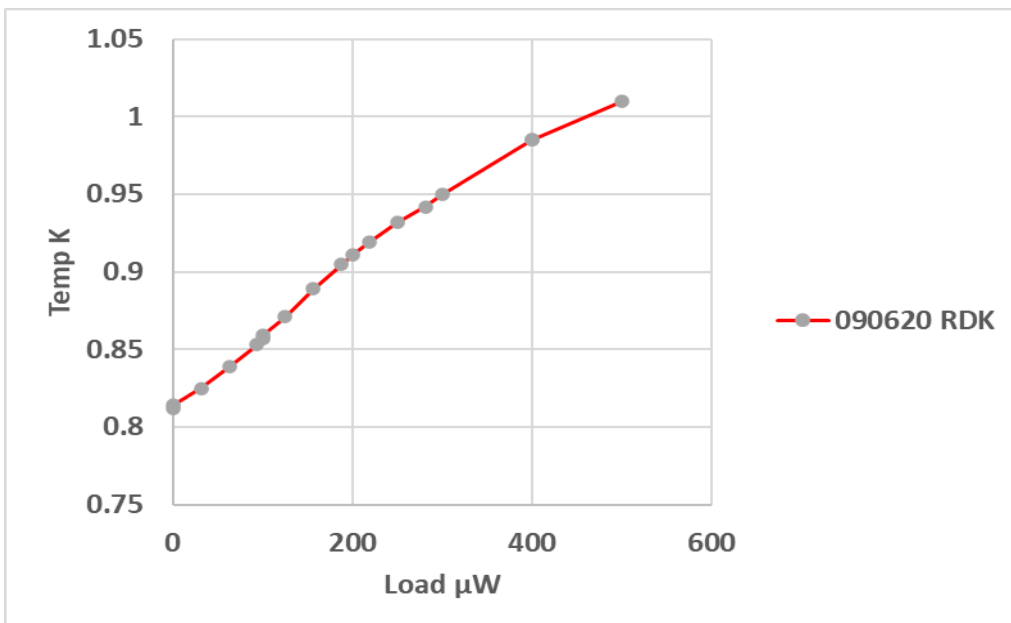


PERFORMANCE NOTES FOR THE GL4 SORPTION COOLER

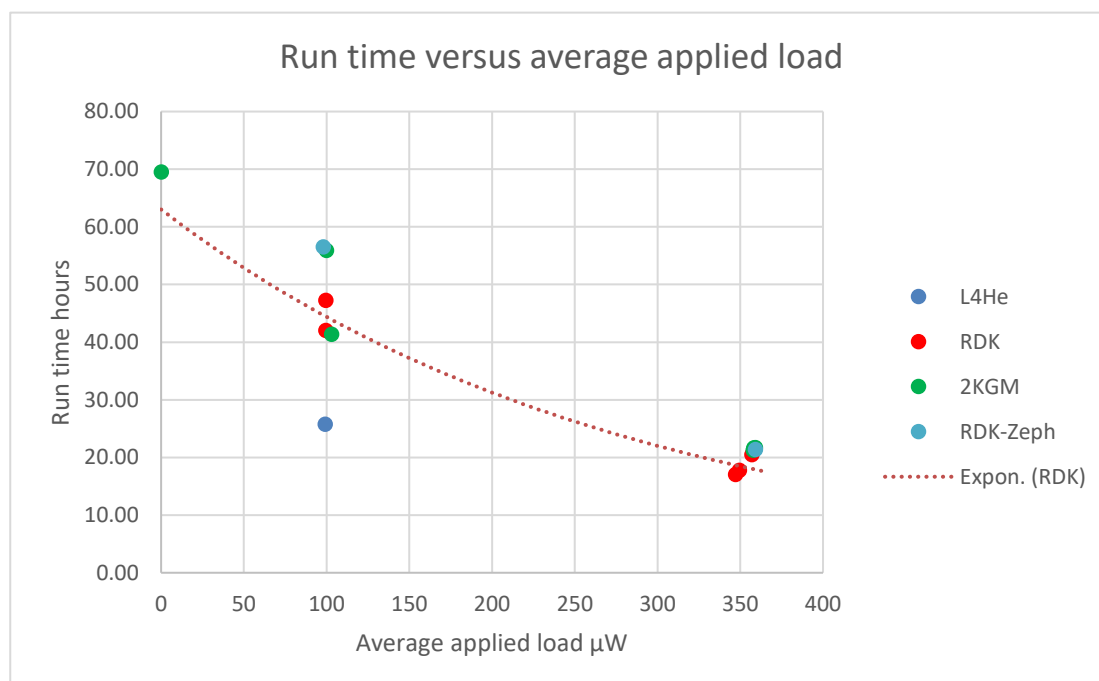
The GL4 is a single-stage, single-shot sorption cooler that is designed to interface to a low-power 4K GM cryocooler. Here are some typical data for a small GL4. With a 100 μ W load it typically runs for around 40 hours and will recycle in around 1 hour. With a 250 μ W load it will run for up to 24 hours. We make larger GL4 systems that will meet more demanding requirements in terms of heat lift or run time.



And here is the typical load response.



Optimal performance is obtained by precooling with a mechanical cryocooler that has a low base temperature. The graph below shows data for three different GM cryocoolers (rated 100 – 160 mW cooling power at 4K), and also for pre-cooling in a 'wet' cryogenic system with liquid helium.



Finally, here is a schematic of the new GL4. We are happy to share a CAD drawing with you. In use, the head part is oriented downwards, i.e. the opposite orientation to that shown in this diagram.

