

SUNPOWER

CryoTel® AVC

Active Vibration Control



Sunpower is pleased to offer the Active Vibration Cancellation (AVC) system for the CryoTel® MT, CT, and GT cryocoolers. The active balancer uses a feedback signal from an accelerometer to cancel the first 10 harmonics of the 60 Hz operation of the cryocooler, minimizing vibration at the cold tip as well as exported vibration to its mounting structure.

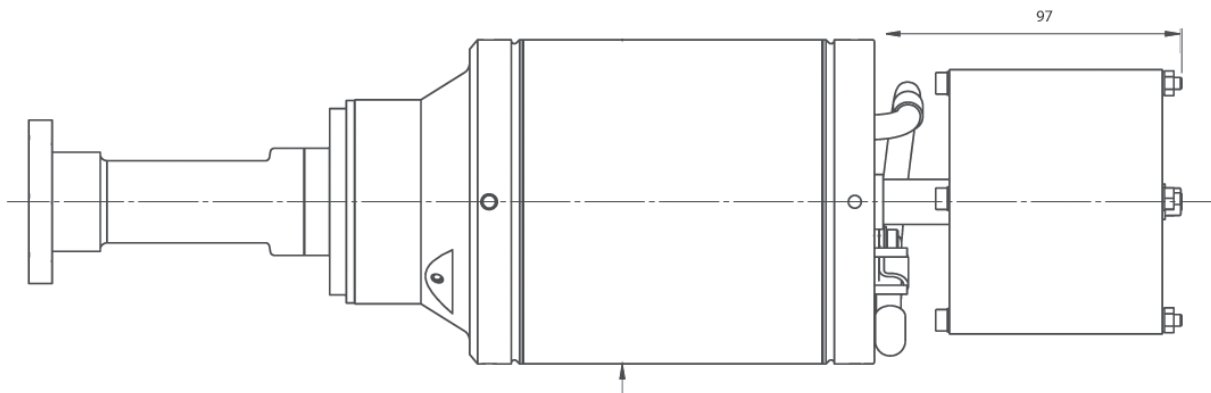
The AVC system includes a controller, active balancer, and accelerometer, as well as necessary cabling for power and instrumentation. The controller drives both the cryocooler and the active balancer.

AVC technology is backward compatible with any CryoTel® CT, MT, and GT cryocooler. Installation is simple as it is a drop-in replacement for the standard passive balancer offered.

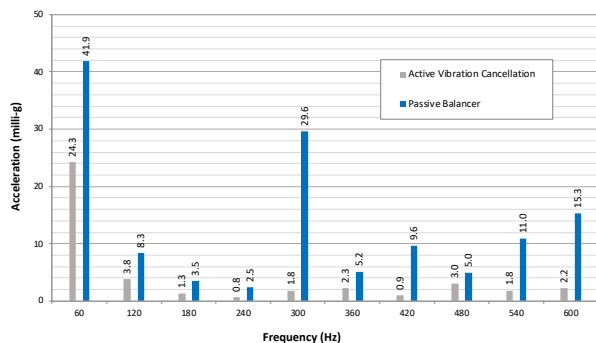


Unsurpassed
efficiency,
reliability and
performance.

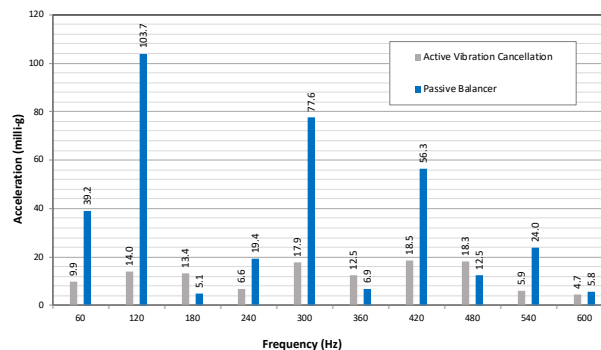
Added Length of AVC Balancer (as shown on the CryoTel MT)



Axial Acceleration: Active Balancer vs. Passive Balancer



Lateral Acceleration: Active Balancer vs. Passive Balancer



- Rigidly mounted CryoTel CT
- At 160 Watts input power
- Acceleration measured at cold tip

Data is subject to change.

AVC Power Cable and I/O Cable

