

# WATERPUMP H<sub>2</sub>O 50 ICP



The H<sub>2</sub>O 50 ICP Waterpump from Genesis Vacuum Technologies is a high-performance pump designed for installation in process chambers, transfer modules, and load locks. The single-stage coldhead is one of the most powerful on the market, delivering 90 Watts of power at 123K.



*Genesis provides custom cryopanel and waterpump interface designs to meet customer requirements.*

By using the H<sub>2</sub>O 50 ICP Waterpump in conjunction with a turbomolecular pump, pump down-time to base pressure can be reduced by up to 75%. This application of the water pump substantially reduces the water load that would otherwise be taken by the turbo pump alone. In addition, by significantly lowering the water vapor partial pressure in vacuum chambers, enhancements to wafer yield has been demonstrated.

## Easy to Customize

The water pump can be configured with a 8" ISO flange for flush mounting to the chamber location. A custom-designed body is available for an exact fit to the process chamber, and the cryopanel can be provided to meet specific customer configurations.

All Genesis water pumps require the following components to operate:

- Compressor: Either the Genesis 2.1 single-pump compressor or HC 70 multi-pump compressor
- Gen2 Controller: Required for temperature control and automatic warm-up for each water pump
- Helium Hoses: Available in pairs, in lengths of up to 60'
- Electrical Cables: Pump I/O and expander power cables are required, and communication cables when Gen2 and Cryoboss are utilized

The H<sub>2</sub>O 50 ICP pump is also CE and SEMI compliant, offering a cost effective, high reliability solution for all water pumping needs.

