



## Custom Equipment Profiles: Air Cooled Chillers for Dynamometer Cooling



*Dynamometer in use*

You depend on your dynamometer for accurate engine and motor testing. Your dynamometer depends on its chiller to absorb and dissipate heat in order to operate to the best of its ability. This means finding the right chiller manufacturer is vital to the functionality of your dynamometer.

General Air Products has extensive experience with dynamometer cooling. Our expert team of process cooling engineers understands the variety of demands that arise in a dynamometer application. Our line of industrial grade chillers will cool to your requirements no matter the type or application of your dynamometer.

General Air Products' engineering team has designed custom chillers for small scale dynamometer testing, where accuracy is critical. For example, in a recent water brake type absorber dynamometer application, a constant supply of water was needed in order to ensure that the engine being tested was held at a steady RPM. To gain tight control on the cooling loop, only a custom built chiller, designed specifically for the application at hand would suffice.

Consistency and control are two very important aspects to consider in a chiller for dynamometer cooling. Accuracy of the test results often relies heavily on maintaining a constant pressure and the ability to gauge and control flow. The addition of a pressure switch, flow meter and back pressure regulator to your chiller mean the difference between accurate and inaccurate test results.

With that said, through our industry experience we have learned when an elaborate, custom cooling solution is unnecessary and an off-the-shelf option, or a slightly modified chiller (as seen in the picture above right), will do the trick.

Considering chillers are so important to the accuracy of your dynamometer testing, you should choose the chiller manufacturer who understands those demands. General Air Products has an experienced engineering team ready to supply you with the chiller that best fits your application. Whether custom or standard, General Air Products has the chiller you need to keep your dynamometer up and running and giving accurate results. Contact us today.



*6 ton custom air cooled chiller with pressure switch, back pressure regulator, flow meter, and liquid gauge.*



*6 ton standard air cooled chiller*

**Call Toll Free 800-345-8207**

**or e-mail: [genairpro@generalairproducts.com](mailto:genairpro@generalairproducts.com)  
to contact our Team of Process Cooling Experts**