



## Closed Loop Cooling System

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# Closed Loop Cooling System

The Power Test Closed Loop Cooler allows for the regulation of the temperature of the engine with a glycol based coolant. This replicates the normal coolant used when the engine is in a typical working environment. A glycol based cooling system keeps potentially corrosive water out of the cooling system and provides freeze protection for engines stored in a cold environment. Benefit for testing Tier 4 engines can be further explained by your Power Test sales representative.

The Power Test Closed Loop Coolers are available in a range of sizes and are designed to provide corrosion and freeze protection for long term or cold storage. The system uses a liquid-to-liquid heat exchanger and temperature sensor to monitor and control the temperature of the engine's jacket water. The operator can input setpoints for the temperature and pressure of the jacket water cooling system. The system also includes a pump for filling and draining the engine jacket water loop. The unit is mounted on wheels for portability.



## Features

- Three different models for engines with 300, 600 and 1,400 hp.
- Glycol based cooling system used in place of a radiator.
- Uses liquid-to-liquid heat exchanger
- Digitally controlled analog valve allows temperature set-point range of 160-205° F (71-96° C)
- Manually regulated pressure controlled to set-point range of 0-15 psi (0-100 kPa)
- Coolant pump included for filling and draining the engine
- Includes water pressure and temperature gauges
- Includes coolant level sight gauge
- Mounted on wheels for portability

## Benefits

- Separates engine cooling system from facility water
- Enables operation using OEM specified glycol based coolant
- Glycol provides corrosion and freeze protection for engines stored for an extended period or in a cold environment
- Coolant level sight gauge allows for monitoring of air or contaminants in the system

## A Complete Testing Solution

Power Test provides a full range of test cell support equipment and accessories, including engine carts, air start systems, drive shafts, resilient couplings, engine adapters, water recirculation and cooling systems, fuel measurement systems, smoke opacity meters, additional temperature and pressure sensors, and analog input channels. Whether you are dealing with new installation or looking to repair, upgrade, or replace an existing dynamometer, Power Test has a solution.

## Power Test, Your Full Service Dynamometer Manufacturer

Power Test can provide facility design and installation of every dynamometer we sell. We also offer a complete line of support equipment, including ventilation systems, exhaust systems, auxiliary cooling systems, and water recirculation systems.

Contact your Power Test representative or visit our web site at [www.powertestdyno.com](http://www.powertestdyno.com) for more information.

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