

MODEL 900C HYDRAULIC TEST CENTER



Model 900C Hydraulic Test Center

A versatile test stand designed for testing heavy-duty off-highway hydraulic components, the AIDCO Model 900C Hydraulic Test Center features some of the most advanced technology on the market today. Designed for complete pump, motor, and hydrostatic transmission testing, the Model 900C is much more than a standard transmission test bench.

The Model 900C provides a durable and reliable platform for performance testing transmissions, torque converters, gear pumps, vane pumps, hydrostatic pumps and hydraulic motors, cylinders, and valves. Performance testing results in reduced operating costs due to rebuilding error and possibility of critical failure in the field, equipment dealers can realize more profitable maintenance contracts and increased customer satisfaction. Additionally, the Model 900C features an independent closed loop hydrostatic drive for a contamination free drive system, independent constant display digital instrumentation for easy readability, and industrial grade glycerin filled pressure gauges.

Capable of detecting shift points and mechanical binding, identifying vibrations, diagnosing and locating leaks, and measuring pressure and flow, clutch leakage and output torque (optional), the AIDCO Model 900C Hydraulic Test Center is one of the most comprehensive hydraulic testing tools on the market.

Specifications:

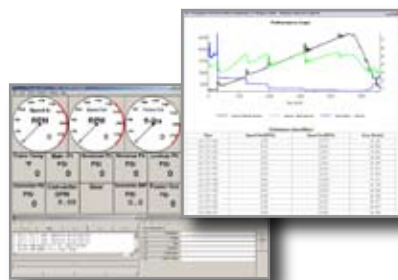
- 300 hp electric motor with a variable displacement hydrostatic drive pump and variable displacement, bidirectional hydrostatic motor capable of 1,232 lb/ft torque and 2,550 rpm.
- Main aux flow circuit: 0-84 GPM (318 L/min) up to 6,090 psi (419 bar).
- Charge flow circuit: 0-31 GPM (117 L/min) at up to 800 psi (56 bar).
- Lube flow circuit: 0-8 GPM (30 L/min) up to 65 psi (4 bar).
- Pilot flow circuit: 0-3.6 GPM (13 L/min) at up to 800 psi (56 bar).
- High pressure flow circuit: 0-3.6 GPM (13 L/min) up to 7,200 psi (496 bar).
- Loadable recirculation loops (200 GPM) and (100 GPM) monitoring circuits with adjustable pressure reliefs.
- Non-loadable recirculation loop (100 GPM).
- 3 micron kidney loop filtration system.
- 3" and 4" pump suction ports from main reservoir.
- 300 gallon (1,135 L), elevated, heated main reservoir with (1) fixed tube, bundle-type heat exchanger, temperature display, visual sight gauge, and (2) 10 micron filters.
- 100 gallon (378 L) hydrostatic reservoir with (1) fixed tube, bundle-type heat exchanger, temperature display, visual sight gauge, and (2) 3 micron filters.
- Worktable with 100 gallon (378 L) sump capacity, automatic/manual pump, and (1) 10 micron filter.
- 15 pressure taps and 15 liquid-filled pressure gauges to monitor components under test.
- **12 Month Warranty on Materials and Workmanship**

PowerNet TD Data Acquisition & Control System

Based on the popular PowerNet series of data acquisition and control systems, PowerNet TD is designed to provide a comprehensive, easy-to-use data acquisition and control system for all AIDCO customers. PowerNet TD utilizes a Windows®-based computerized data acquisition system to monitor and record speeds, torque, pressures, temperatures, flow rates and shift events.

In addition to advanced monitoring and recording, PowerNet TD enables AIDCO users to run an automated test procedure for electronically controlled transmissions. This not only ensures consistent repeatability of test procedures, but provides a record of performance parameters exhibited during a test.

Designed for ease of use, PowerNet TD allows for simple configuration of instrumentation, operator designated warnings for High/Low limits, and operator customized, full-feature data reports. All reports are generated in a standardized HTML format.



Features

Every Model 900C Hydraulic Test Center is custom built to your specifications. AIDCO's in-house manufacturing allows for short lead times, allowing you to begin testing as soon as possible. Options range from Eddy current load unit to computerized data acquisition and control with PowerNet TD. Additionally, custom finishes are available for every AIDCO product.

400/450 HP electric motor upgrade available

5 Days of On-site Installation, Training and Commissioning

Interior Soundproofing

3-Micron Kidney Loop Filtration System:

- Dedicated circulation pump and motor.
- Filtration system includes electronic indicators.

Power Lift Assembly:

- Facilitates easy maneuvering of the hydraulic drive motor/drive shaft for alignment with the test component.

Optional Features

PowerNet TD Data Acquisition and Control:

- Offers full control and data acquisition for complete pump, motor, and hydrostatic transmission testing.

Adapters available for most Caterpillar off-highway equipment

Optional Rectifier Manifold

- Allows for testing of closed circuit pumps.

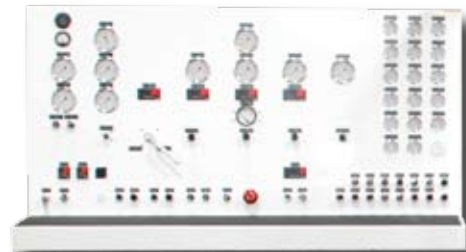
Eddy current absorber and stand:

- Trolley mounted - capable of vertical and horizontal movement.
- Continuous torque - 525 lb. ft., Intermittent torque - 1,470 lb. ft.



Model 900C with worktable

Each AIDCO Hydraulic Test Stand is custom built to your exact specifications



Gauge and Pressure Tap Panels



Model 900C Hydraulic Test Center

Hydrostatic System	Bidirectional hydrostatic motor available in 300/400/450 HP configurations Max Torque: 1,232 ft/lbs torque Max. Speed: 2,550 rpm
Main Flow Circuit	0-84 GPM (318 L/min) up to 6090 psi (419 bar) 4 in. diameter analog pressure gauge (1,000 psi) 4 digit, constant display, digital flow indicator
Charge Flow Circuit	0-31 GPM (117 L/min) up to 800 psi (56 bar)
Lube Flow Circuit	0-8 GPM (30 L/min) at up to 65 psi (4 bar) Flow adjust valve
Pilot Flow Circuit	0-3.6 GPM (13 L/min) up to 800 psi (56 bar)
High Pressure Flow Circuit	0-3.6 GPM (13 L/min) up to 7200 psi (496 bar) 4 in. diameter analog pressure gauge (10,000 psi) 4 digit, constant display, digital flow indicator
Loadable Recirculation Loops	0-200 GPM (757 L/min) at up to 6,500 psi (448 bar) 0-100 GPM (378 L/min) at up to 6,500 psi (448 bar)
Non-Loadable Recirculation Loop	0-100 GPM (378 L/min) at up to 6,500 psi (448 bar)
Kidney Loop Filtration System	3 micron
Optional Rectifier	Allows for testing of closed circuit pumps



Contact AIDCO Test Systems for information on our full line of transmission testing equipment

In addition to the Model 900C Hydraulic Test Stand, AIDCO manufactures a wide range of transmission testing equipment, including electronic shift consoles, valve body test stands, and transmission test stands.