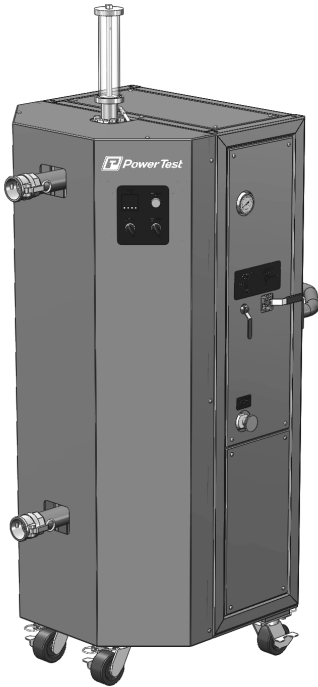


# Closed Loop Cooling System - Portable (CLCS-Series)

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*JW300 Closed Loop Cooling System shown*

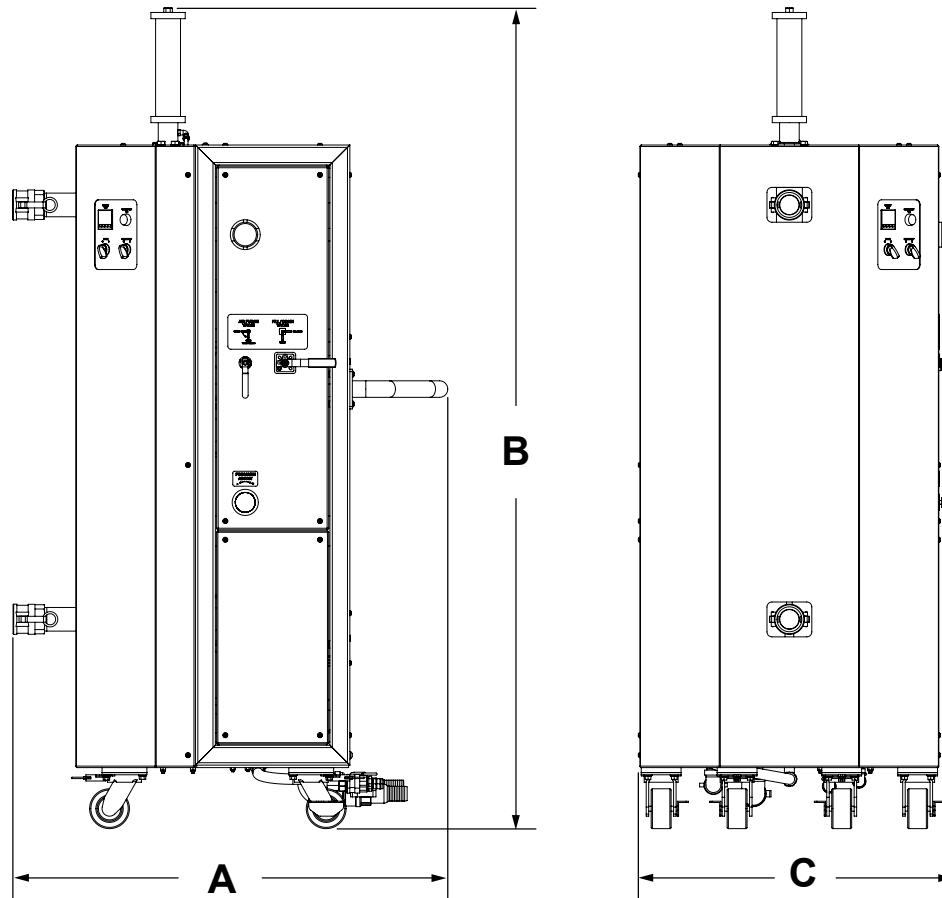
## Overview

The Power Test Closed Loop Cooling System (CLCS) is a test cell ready, engine coolant system that is used in place of an open-loop cooling column. Glycol systems provide corrosion and freeze protection in engines stored for extended periods or in cold environments. Portable Closed Loop Cooling Systems are available in both Jacket Water (JW) and After Cooler (AC) models to suit your requirements.

### Closed Loop Cooling System:

- Provides temperature control & pressure regulation of engine coolant/glycol.
- Separates engine coolant from facility water.
- Integrated transfer pump to fill & drain engine coolant.
- Stainless steel heat exchanger.
- Includes a coolant level sight glass that allows visual monitoring of the engine coolant for presence of oil or exhaust gases.
- Digitally controlled analog valve allows temp. set-point range of:  
JW Models: 160-205° F (71-96° C)  
AC Model: 125-150° F (51-65° C)
- 230° F (110° C) Maximum engine coolant inlet temperature.
- Engine coolant pressure control range of 0-15 PSI (0-100 kPa).
- Includes water pressure and temperature gauges.
- Requires 30-65 PSI (200-450 kPa) min. water pressure.
- Power requirements:  
Voltage: 120/240 (VAC)  
Amperage: < 15A / 8A

# Closed Loop Cooling System - Portable (CLCS-Series)



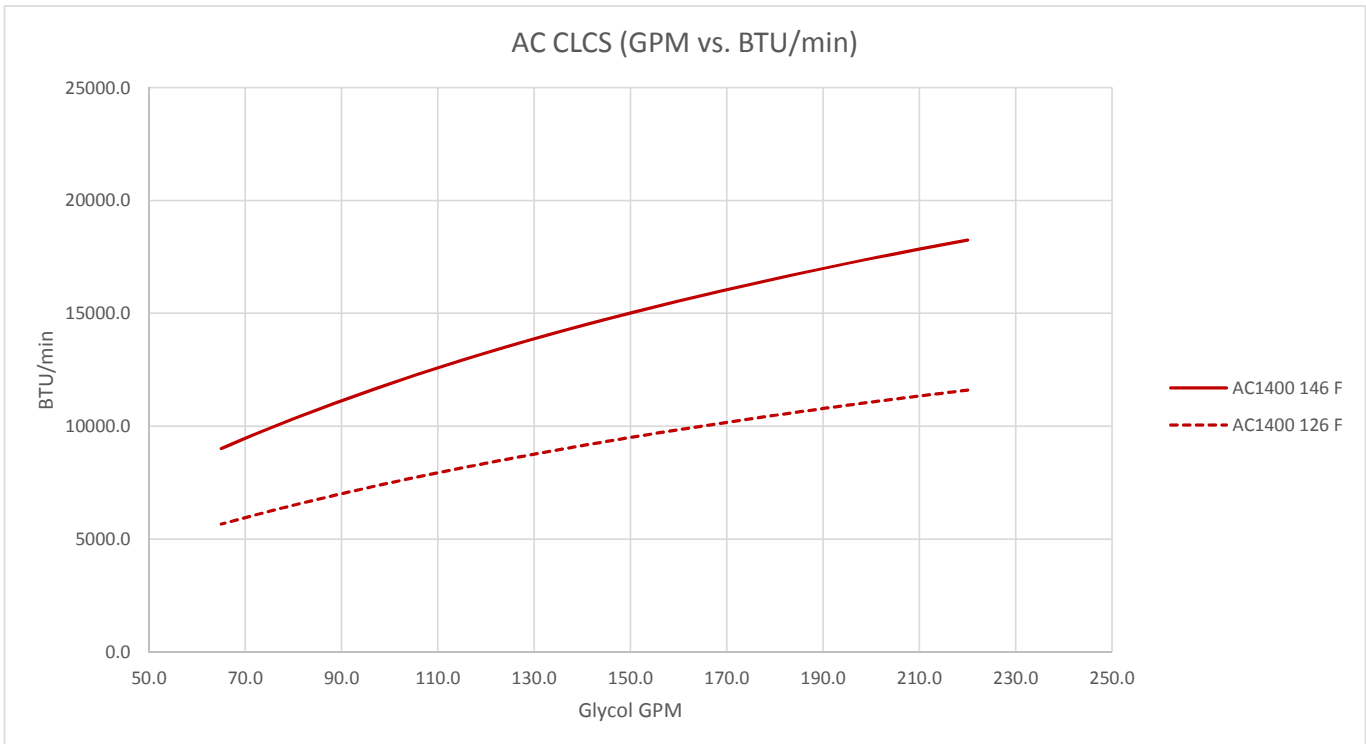
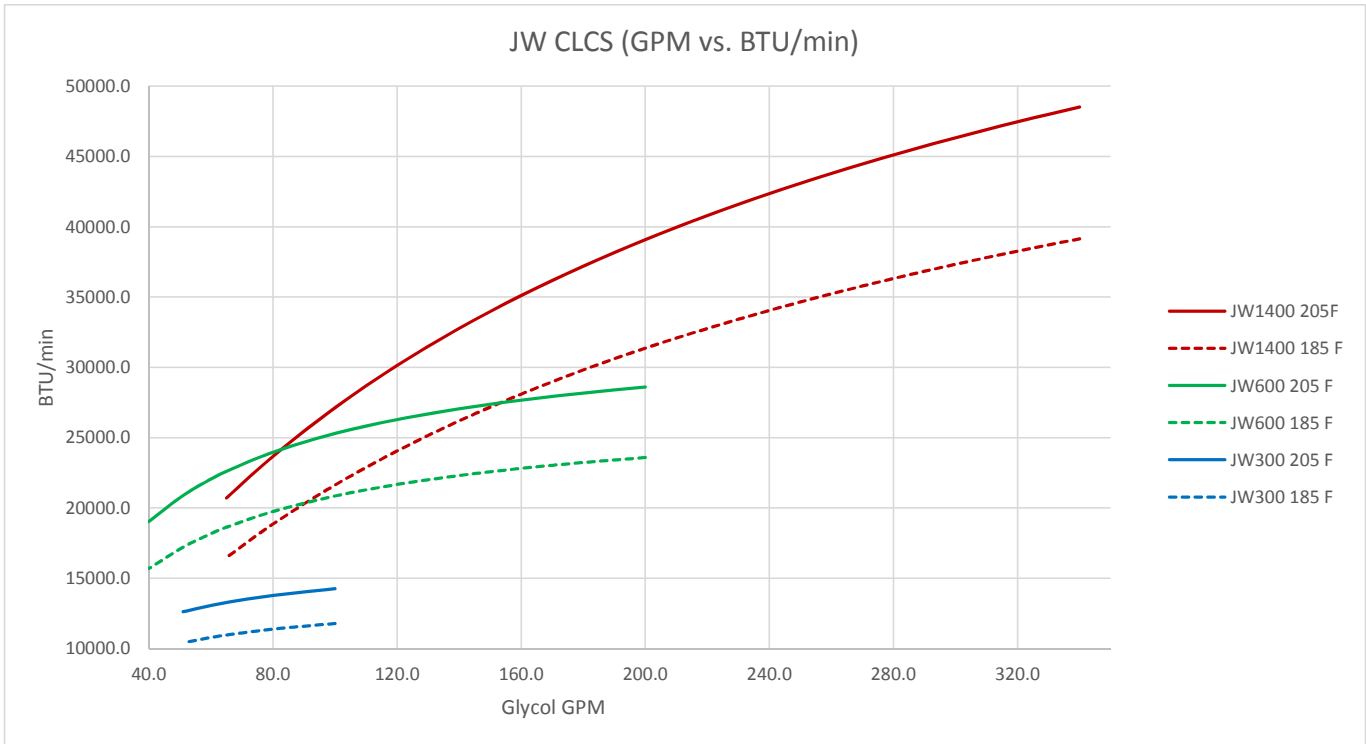
Description	Part #	Dimensions - inches (mm)			Water Flow Req. @ 85°F (GPM)	Max. Heat Rej. Load BTU/Min	* Weight lbs (kg)
		A	B	C			
CLCS JW300	24580	32 (812)	83 (2108)	34 (863)	43	12,423	640 (290)
CLCS JW600	24581	32 (812)	83 (2108)	34 (863)	85	24,847	640 (290)
CLCS JW1000	24582	32 (812)	83 (2108)	34 (863)	142	41,411	640 (290)

\* Estimated weight dry without hoses & accessories.

Description	Part #	Dimensions - inches (mm)			Water Flow Req. @ 85°F (GPM)	Max. Heat Rej. Load BTU/Min	* Weight lbs (kg)
		A	B	C			
CLCS AC1000	24582	32 (812)	83 (2108)	34 (863)	170	13,500	640 (290)

\* Estimated weight dry without hoses & accessories.

# Closed Loop Cooling System - Portable (CLCS-Series)



N60 W22700 Silver Spring Drive • Sussex, WI 53089 USA  
 phone: (262) 252-4301 • fax: (262) 246-0436  
[www.powertestdyno.com](http://www.powertestdyno.com)

# Closed Loop Cooling System - Stationary (CLCS-Series)

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Closed Loop Cooling System - JW3150 shown



Closed Loop Cooling System - AC2100 shown

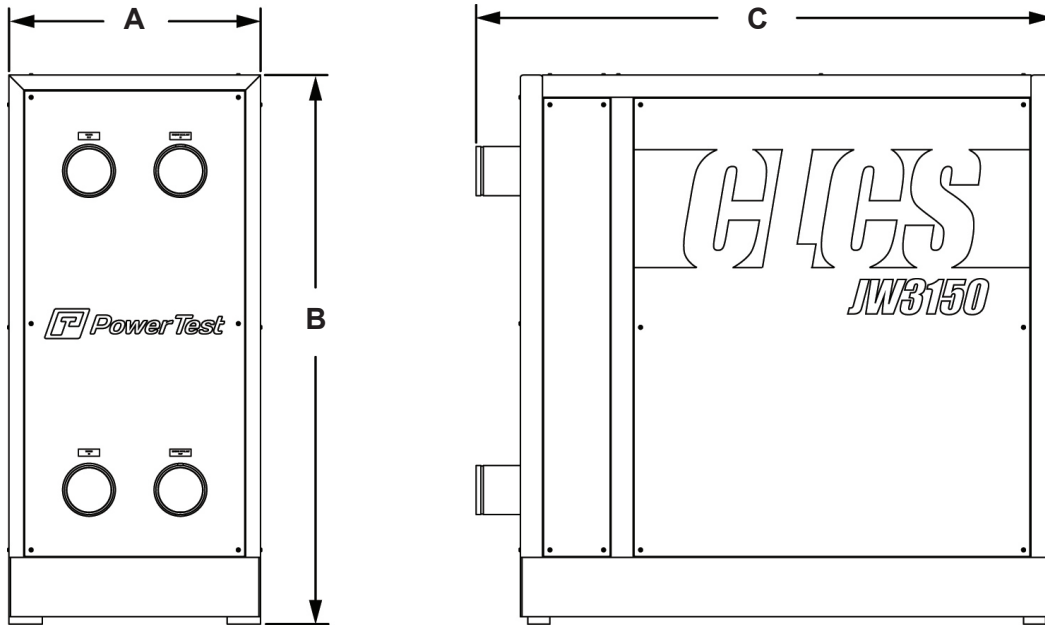
## Overview

The Power Test Closed Loop Cooling System (CLCS) is a test cell ready, engine coolant system that is used in place of an open-loop cooling column. Glycol systems provide corrosion and freeze protection in engines stored for extended periods or in cold environments. Stationary Closed Loop Cooling Systems are available in both Jacket Water (JW) and After Cooler (AC) models to suit your requirements.

### Closed Loop Cooling System:

- Separates engine coolant from facility water.
- Integrated (10 or 20 GPM) pneumatic transfer pump to fill & drain engine coolant.
- Utilizes a serviceable stainless steel heat exchanger.
- Auto-fill capability when used in conjunction with an optional expansion tank.
- 230° F (110° C) Maximum engine coolant inlet temperature.
- Provided with access panels to heat exchanger and offered with a wide variety of connection options available for installation in your facility.
- Cold water supply pump and controls are sold separately to match your precise needs. Digital controls will maintain water temperature range of:
  - JW Models: 160-205° F (71-96° C)
  - AC Model: 125-150° F (51-65° C)
- Air requirement:
  - Clean, moisture-free air supply at 100 PSI (690 kPa), 20 CFM
- Power requirement:
  - Voltage: 120/240 (VAC)
  - Amperage: < 15A

# Closed Loop Cooling System - Stationary (CLCS-Series)



Description	Part #	Rating HP (kW)	Inlet / Outlet Conn. Ø inches (mm)	Dimensions inches (mm)			Cooling Water Flow Req. @ 85°F (GPM)	Max. Heat Rej. Load BTU/Min	* Weight lbs (kg)
				A	B	C			
CLCS JW2100	1001709	2,100 (1566)	4 (101)	34 (863)	60 (1524)	78 (1981)	175 @ 30-65 PSI (200-450 kPa)	50,815	2,370 (1075)
CLCS JW3150	1001710	3,150 (2350)	6 (152)	34 (863)	74 (1880)	78 (1981)	250 @ 30-65 PSI (200-450 kPa)	72,105	3,845 (1744)
CLCS JW4500	1001711	4,500 (3356)	6 (152)	34 (863)	74 (1880)	78 (1981)	310 @ 30-65 PSI (200-450 kPa)	89,075	3,924 (1780)

\* Estimated weight dry without hoses & accessories.

Description	Part #	Rating HP (kW)	Inlet / Outlet Conn. Ø inches (mm)	Dimensions inches (mm)			Cooling Water Flow Req. @ 85°F (GPM)	Max. Heat Rej. Load BTU/Min	* Weight lbs (kg)
				A	B	C			
CLCS AC2100	1003192	2,100 (1566)	4 (101)	34 (863)	60 (1524)	78 (1981)	115 @ 30-65 PSI (200-450 kPa)	31,812	2,370 (1075)
CLCS AC3150	1003193	3,150 (2350)	4 (101)	34 (863)	60 (1524)	78 (1981)	165 @ 30-65 PSI (200-450 kPa)	46,658	2,470 (1120)
CLCS AC4500	1003194	4,500 (3356)	4 (101)	34 (863)	60 (1524)	78 (1981)	240 @ 30-65 PSI (200-450 kPa)	67,867	2,570 (1165)

\* Estimated weight dry without hoses & accessories.



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