

PARALLAX Coolant: Levels and Testing

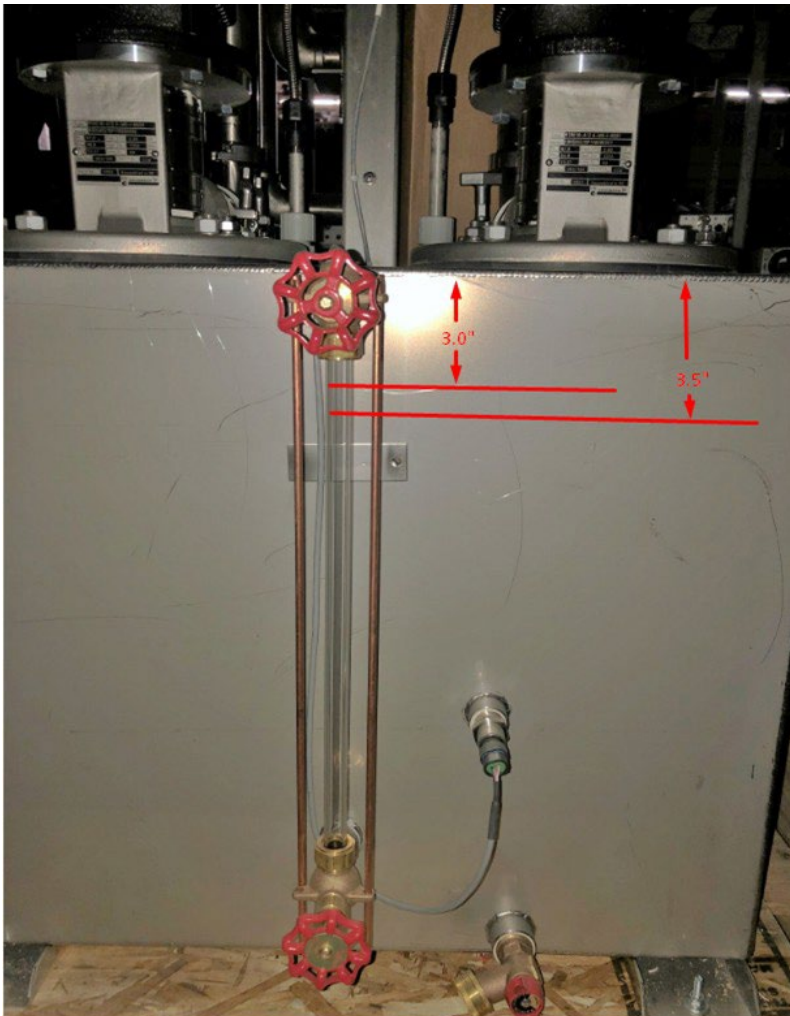
Coolant Information

Comark recommends the final mix of the fluid used in the Cooling System must be distilled water mixed with glycol, specifically DowTherm SR-1, and comprised of a final water and glycol mixture ratio of 1:1.

Note: Be sure to measure the mixture ratio as it is being poured into the system.

Warning: Only fill the tank up to the Recommended Operational Fill Level marked in the pictures below so as not to damage each type of Cooling System.

Cooling System (Thurott Tank) (P/N's 65000601.XX copper, 65000613.XX stainless steel)





The coolant level should be between 3.0” to 3.5” from the top of the steel tank.

Cooling System (Haskris Tank) (P/N 65000630.XX)





The coolant level is checked in the plastic hose on the right side of tank, and it should be about 6.0" to 7.0" above the top level sensor.

Note:

The Coolant ratio of Dowtherm SR-1 to water should be checked at least annually, or if coolant level has decreased notably. This can be done with a Misco 7084VP Glycol Refractometer or with a standard automotive glycol tester like the OEMTools 24507 Professional Series Ethylene Glycol tester. The proper ratio is 50:50 with an indicated freezing temperature of -30F or -34C. If the indicated freezing temperature is less than -34F, this is indicative of a loss of water in the system. Add 1 gallon of distilled water to the system while it is running. Wait 5 minutes and test the ratio. Repeat until the indicated freezing temperature is close to or at -34F. Only add new Dowtherm SR-1 to the system if the freezing temperature is above -30F.

Coolant pH levels should be checked at least annually using a testing paper like [Hydriion 7.2-8.8](#) and be between 8.0 and 10.0.. When pH drops below 7.2, a cooling system flush is recommended, but if the PH range is between 7.2 and 8.0, it can be adjusted using a 50% solution of sodium hydroxide or potassium hydroxide. Use the following procedure:

1. Measure starting pH. If pH is above 8.2, no adjustments are needed. If pH is 7.2 or below, a coolant flush is required. If pH falls between 7.2 and 8.2, it can be adjusted using 50% sodium hydroxide (NaOH) solution.
2. Following the safe handling recommendations from the manufacturer/MSDS sheet, add roughly a pint of 50% NaOH to the fill port of the cooling tank while the pumps are running. Wait 5-10min before measuring pH again.
3. Repeat until pH reaches at least 8.4.

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