

# RigMaster Power International

## Technical Customer Support

### Coolant Information / Bleeding cooling system for improved heating

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**WARNING!** The engine cooling system (including the radiator cap) is pressurized with extremely hot coolant that will cause severe burns! The radiator cap must always be removed with caution and it may only be removed when the radiator is at atmospheric temperature!  
Never allow coolant to drain onto the ground and always dispose of coolant according to local laws.

#### Use only “Diesel Specific” Coolant:

	Concentration	Base	Specification
KOHLER	50%	Ethylene Glycol	ASTM-D3306
CAT / PERKINS	50%	Ethylene Glycol	ASTM-D4985

- All RigMasters hold 1 Gallon of Coolant (3.78 Liters)
- New RigMasters are filled with Nitrite, Inorganic Acid Technology, Ethylene Glycol coolant

**WARNING!** - Never mix different kinds of antifreezes! The effects of mixing different antifreezes range from overheating problems to hard “epoxy-like” deposits that clog radiators within a very short time, resulting in engine failure.

#### Coolant Types

Dye is used to colour antifreeze to help identify its type but the colour is not always an accurate indicator. You must make every effort to be certain of the coolant type in your RigMaster before adding coolant.

- Inorganic Acid Technology or IAT
- Organic Acid Technology or OAT
- Hybrid Organic Acid Technology or HOAT (may be used with OAT coolant only)

#### Cooling system maintenance/Heating performance

Cooling system maintenance is extremely important. To avoid cooling system contamination, overheating and foaming, which cause engine running problems and engine failures, be sure to maintain the correct level of coolant in the cooling system. Water pump leakage (small amount is normal) and other coolant loss contribute to; lack of heat from cabin heater, engine overheating and engine failures.

#### **Lack of Bunk heating: bleeding air from Cooling System:**

If the coolant level is not maintained, the cooling system will draw air into it, which rises to the highest point in the system (the heater core under the bunk - for Units with hot water type heating), preventing coolant flowing through the heater core, causing a lack of heating for the truck cabin. If this problem is a possibility in your system, you will need to “bleed” the air from the upper system. The hot water hoses from the RigMaster engine go through the floor of the cabin and connect to the black plastic “Water Valve”. Slide the hose clamps down the two hoses and insert a screwdriver along the inside of the hose until it reaches coolant and run the RigMaster to remove the air using the screwdriver. You will likely need to perform this process a few times and allow the engine to cool which also replenishes coolant and fills voids in the upper cooling system. Be aware that the RigMaster main computer (Power Module) is very close to the water valve, it must be covered so coolant does not contact it during the bleeding process.