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|-----------------------------------|------------------------------------------|
| 1. Heat exchanger | 5. Inlet to heat exchanger (hot water) |
| 2. Fire fighting pump | 6. Exit from heat exchanger (cold water) |
| 3. Water intake line to the pump. | 7. Engine |
| | 8. Radiator |

The radiator water is cooled using part of the pump water without mixing between the two. So the temperature of the engine remains constant and low. No matter how high the ambient temperature is or the length of time in which the pump is used.

Manufacturing & design are according to NFPA