



# Cooling water hoses replacement for MV7

Detailed inspection and replacement of old hoses

## Expert recommendation

Temperature, moisture, dust, water pressure and flow play a significant role in deciding the material properties. But a proper maintenance is one of the key factors to keep your system healthy. Especially, the cooling system is one of the vital circuits of your drive system which keeps the IGBTs in a preferable temperature.

It is advisable to check and maintain the health of the cooling system tubes which have been in operation for a long time. GE Power Conversion recommends to replace the hoses at least every 10 years as the life expectation of the hoses will be 10 years as per the specifications due to age factors.

## How do we do? Here's an overview!

- Step 1** Checking & tracking of old hoses
- Step 2** Removing all water in the circuit
- Step 3** Removing old hoses
- Step 4** Installing new hoses
- Step 5** Refilling of water circuit & pressure test
- Step 6** Checking cooling system performance at trails

## Salient points

- *It is applicable to all MV7K drives.*
- *Field Service Engineer (FSE) completion time on site will be 2 FSEs for 4 days / converter depending on convert type.*
- *GE recommends performing this during the next maintenance/dry dock and doing it every 10 years thereafter based on cooling system audit results.*



**New hoses after replacement**

## Benefits

- Power electronic components like IGBTs will be maintained at preferable temperature at full load operation.
- Alarms related to the cooling unit such as flow, temperature, pressure etc. will be avoided.
- Prevent potential future leakages inside the converter.
- No component/functional modifications in your existing system.
- Complete end to end support with materials by GE experts.

## GE's services for a lifetime

GE offers bespoke service support in the form of spares and replacement parts, onsite and remote technical support, maintenance services, upgrades, customized trainings and service agreements aimed at supporting customers based on their unique needs.

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