

The following article is information extracted from correspondence from Impact Instrumentation, Inc. regarding the 754M Ventilator, NSN 6530-01-464-0267. It relates to the failure of the compressor motor, and recommended actions to be taken by units in possession of the ventilator.

The "Total Flow Backup" alarm could be a direct result of unclean ambient air being entrained into the ventilator via its compressor intake assembly. Entrained dust and debris can accumulate on the flow sensing screen and inadvertently trigger the particular alarm.

Remove the "Gas Out To Patient" fitting at the top of the vent (there will be an o-ring and screen underneath), and clean the flow sensing screen. The screen can be cleaned using oil less compressed air. Inspect by holding screen up to a light source. The picture shows the fitting removed and the screen in view. An additional factor that could cause an alarm is a defective Mix Flow Transducer or a hardware calibration issue.

While it's only conjecture, entraining unclean ambient air (having a clogged filter) may also be a reason for the two compressor failures mentioned.

Impact recommends that the Pall BB50T (NSN 6515-01-264-3085) be used on the Compressor intake fitting. The compressor intake fitting is located directly above the black handle on the right-hand side of the ventilator. This filter will slide over the fitting snugly and prevent airborne debris from entering the ventilator circuit. The filter should be replaced routinely to insure efficient flow delivery.

Note: The gray foam filter located within the air intake fitting should be inspected and replaced/cleaned before adding the Pall filter.



“Gas Out” Connection”

Connection removed – see filter