December 4, 2020

Medical Device Field Safety Corrective Action

RECIPIENTS:
- All medical, nursing and service staff where the HAMILTON-H900 Humidifiers are used (intensive care ward, intermediate care ward, emergency ward, long-term acute care hospital or in the recovery room) and their service engineers.
- All distributors of the HAMILTON-H900 Humidifier and their service engineers.

PRODUCT NAME: HAMILTON-H900

INTENDED USE: The HAMILTON-H900 humidifier is intended for respiratory gas conditioning during invasive and noninvasive mechanical ventilation. The device is intended for use in the hospital and institutional environment where health care professionals provide patient care. The HAMILTON-H900 humidifier is a medical device intended for use by qualified, trained personnel under the direction of a physician and within the limits of its stated technical specifications.

MODELS INVOLVED: HAMILTON-H900 (PN 950001, 950004)

SERIAL NUMBERS: All devices with software version 1.10c incorporated.

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REASON FOR THE MEDICAL DEVICE SAFETY ALERT: The analysis of several customer complaints has identified an issue relating to a delayed low water level alarm when starting the humidifier device with an empty chamber. This alarm delay occurs only in the HAMILTON-H900 software version HPC 1.10c. This issue pertaining to a delayed low water level alarm when starting the humidifier device with an empty chamber, has been corrected in the HAMILTON-H900 software version 1.10d.
ASSESSMENT OF THE SITUATION: The assessment for the delayed low water level alarm when starting the humidifier device with an empty chamber has been evaluated with a probability of occurrence of harm as occasional and the severity in the worst case could lead to a critical event.

In most cases, when the HAMILTON-H900 device has been prepared in accordance to the HAMILTON-H900 Operator’s Manual 624431, once water is filled into the chamber, either manually or via auto feed, or the chamber has been removed and reinserted into the device, the alarm is acknowledged and reset. From this point on, the alarm is functions correctly and the HAMILTON-H900 alarms when there is not enough water in the chamber.

However, in certain situations where the water source for the water auto feed is not properly installed or released, medical staff are unaware that there is no water in the chamber.

ROOT CAUSE: During the development of the HAMILTON-H900 software version HPC 1.10c, a flag relating to the Water level low alarm, had been unintentionally activated instead of deactivated.

With the activated flag in the software code, when the HAMILTON-H900 is powered on with the empty water chamber installed in the device, the software assumes that the alarm Water level low has been released although this has not taken place.

CORRECTIVE ACTION: Action required by device operators:
When operating the HAMILTON-H900 and respective breathing circuit please follow the instructions in the HAMILTON-H900 Operator’s Manual 624431 section 3.4.

Before connecting a new patient to the humidifier;
- Verify that the alarms operate correctly.
- Ensure that the water supply to the humidifier chamber is functioning properly.

Please keep this information with your HAMILTON-H900 humidifiers instructions for use.

Action required by the distributors:
- Distribute this Medical Device Safety Alert immediately to all operators of the HAMILTON-H900 humidifiers with the software version 1.10c.
- Update the HAMILTON-H900 humidifier units with software version 1.10d.
- Update progress of field safety corrective action in the ky2help database.

Action by the manufacturer:
- Inform all partners of the availability of the HAMILTON-H900 software version 1.10d.
- Provision of new software version 1.10d to all distributors.
We appreciate your support in this matter and sincerely regret any inconvenience that this action may cause you. We consider this action necessary to ensure that our customers receive only safe and effective products with high quality.

Helen Gartmann Behan
Team Leader Vigilance
Hamilton Medical AG

Please keep this information sheet with your HAMILTON-H900 humidifiers Instructions of use.