

DATE 2/21/19

SUBJECT High Temperature rating on Head Rush Technologies magnetic devices

Introduction

Magnetic braking devices such as the TRUBLUE, zipSTOP, QuickFlight and FlightLine family of products are able to operate in indoor and outdoor environments. Since 2010 when the TRUBLUE was introduced, there are now over 30,000 HRT magnetic braking devices in use worldwide in a variety of environmental conditions. Recently, there have been questions from customers regarding the use of HRT magnetic braking devices in environments in excess of the stated operation temperature range.

Background

The operating temperature range of HRT magnetic braking devices was defined and evaluated at the time of development as part of the EN 341 certification of the TRUBLUE. This range was defined as:

Maximum Operating Temperature 40°C (104°F)

Maximum Storage Temperature 60°C (140°F)

Through the course of development of other products at Head Rush, these high temperature limits have been added to the various manuals during manual updates, even though they were not part of the EN 341 certification, but utilized the same braking technology within the TRUBLUE. The most recent update of these temperature limits were added in 2017 into the zipSTOP manual.

Update

Upon further review, Head Rush is pleased to announce an increased temperature limit for all magnetic devices. We have extensively reviewed service records maintained at the HRT company headquarters in Boulder Colorado for hot and cold temperature locations, and compared component replacement to identify degradation as a result of high heat. Furthermore, we reviewed external service partner's records and completed the same comparison on the rate of component replacement for hot and cold locations. The rate of replacement of components within magnetic braking devices is very low, and we have found no increase or decrease in component wear as a function of geographical location, specifically comparing cold temperature locations to incredibly high temperature locations.



Future Updates to Manual and Labels

We have combined the maximum operating and storage ambient temperature across all Head Rush Technologies magnetic braking devices to be 60°C (140°F). This change will occur across all Head Rush magnetic braking devices in due course, so please use this document as the most up to date upper temperature rating on Head Rush magnetic braking devices until such time that the manuals and labels are updated.

As per our instructions, if there is any question regarding the correct operation of any Head Rush Technologies product, please stop use and contact customer service.

Best regards,

A handwritten signature in dark ink, appearing to read "Richard Reynolds", is centered on the page. The signature is written in a cursive style with a long horizontal flourish at the end.

Richard Reynolds

Director of Engineering/Head Rush Technologies