



Please share our newsletters with your colleagues and we welcome any feedback to news@orion-fire.com.au.

Seasons Greetings

Orion Fire Engineering have had a very busy year this year, and everyone at Orion would like to thank you all for your support in 2019.

Our offices will be closed from Friday 20th December 2019, and we will return to work on Wednesday 8th January 2020.

We would like to take this opportunity to wish you all a wonderful festive season and a Happy New Year. We look forward to working with you all in 2020.

Interschutz 2020

For the first time, Orion Fire Engineering will be exhibiting at Interschutz and will be bringing our latest products with us, along with a wealth of knowledge on monitor and foam systems.

World leading monitor and foam proportioning technologies will be on display, giving people the opportunity to see our products first hand. We look forward to discussing our products' varied applications and where they can improve fire system performance and reliability.

Interschutz will be held in Hanover in 2020, from Monday June 15th to Saturday June 20th.

Line Proportioner System Design

In a previous Newsletter we discussed the 5-diameter rule for installation of proportioners. This Newsletter we discuss another aspect of line proportioner system design, the foam tank and allowed proportioning rates.

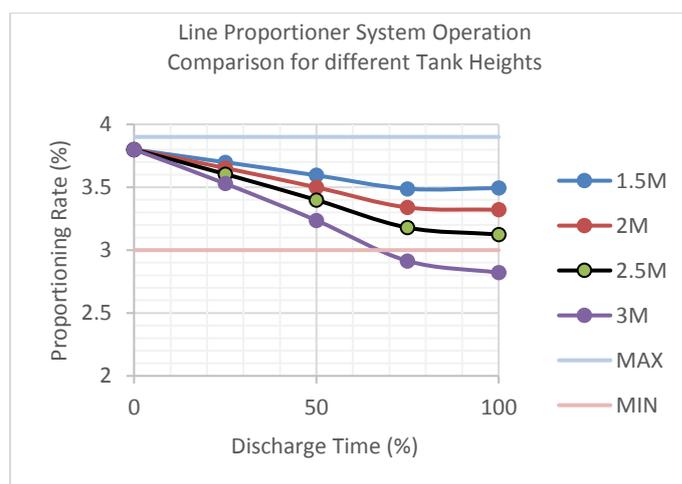
The foam standards allow 3% proportioning systems to proportion between 3.0% and 3.9%. Line proportioner systems

need to use a large percentage of this allowed range as the proportioning rate declines as the foam tank empties.

This means that there are restrictions on the height of foam tanks and the mounting height of the proportioner. Essentially the proportioner needs to be mounted a little above the top of the tank and the length of piping must be kept to a minimum.

We also need to have the systems proportioning above 3.5% when the tank is full if the system is to be above 3% at the end of the system discharge. Exactly what height the foam tank can be is dependent on how accurately we can measure the proportioning rate and how accurately the proportioner can be calibrated.

The operation of a line proportioner system can be modelled and is shown in the graph below. Quite clearly any tank that is 2.5 meters high or higher will probably fail to proportion correctly over the system operating time, and a 2 meter tank could fail unless a lot of work goes into calibrating the proportioner. Consequently, a good rule is that the maximum foam tank height for these systems must be around 1.5 meters. NOTE: These systems need to achieve >3.5% at commissioning when the tank is full, not 3% that is commonly allowed



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Any questions about this email or other Orion products and services?

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