

## HLZ High Performance In-line Inductors

### Description

The HL-Z2 and HL-Z4 inductors are developed for general fire brigade applications when long hose lengths or heights are required, generating high pressure losses.

On standard inductors, high pressure losses can stop effective foam aspiration. HL-Z foam inductors can be used in combination with low (S) or medium-expansion foam branchpipes (M) with the same flow performance.

### Features

- High performance in-line inductor
- Fixed induction at 0% to 6%
- Available in 200 Lpm and 400 Lpm flow rates
- Effective with 100 m hose to 36 m height
- Works with back-pressures up to 5 bar
- Compatible with all foams, including AFFF-ARC

### Operation

Variable in-line inductors are used to mix foam concentrate with water when the foam concentrate is supplied from a tank or a can at atmospheric pressure.

The HLZ in-line inductor has a better tolerance to back pressure and better foam concentrate suction than a standard in-line inductor.

The HL-Z2 and HL-Z4 inductors connect to the water line. They can be placed at a distance from the foam branchpipe as they can accommodate up to 5 bar pressure loss in the hose.

### Construction

The HLZ in-line inductor is constructed for a predetermined water flow at which it creates a drop of approximately 30% in the water pressure. Foam is drawn through a 25 mm pick-up tube from a container at atmospheric pressure. The preset flow of foam concentrate is continuously added to the water stream.

Friction loss through the hose and static pressure loss of up to 5 bar does not influence the induction rate. This effect is produced by a special control valve built into the base of the housing. A non-return valve prevents water flow back into the foam container after the water supply is turned off.



### Foam concentrates

The inductor is designed to perform with all types of foam concentrates, including high viscosity alcohol-resistant concentrates at 1% to 6% proportioning rates. The foam concentrate used with HLZ High Performance In-line Inductors should be of a suitable type for the risk to be protected. For example, use ARC foam concentrates for water miscible liquid fires. For more information or regarding specific guidelines, contact SKUM.

### Specifications

**Table 1: Specifications**

Inductors:	HL-Z2	HL-Z4
Water flow:	200 Lpm	400 Lpm
Length:	355 mm	
Height:	137 mm	
Proportioning ratio:	0% to 6%	
Water inlet:	2 in. DN50 female BSP	
Water outlet:	2 in. DN50 male BSP	
Foam inlet:	Storz type D	
Weight:	4.6 kg	

### Ordering information

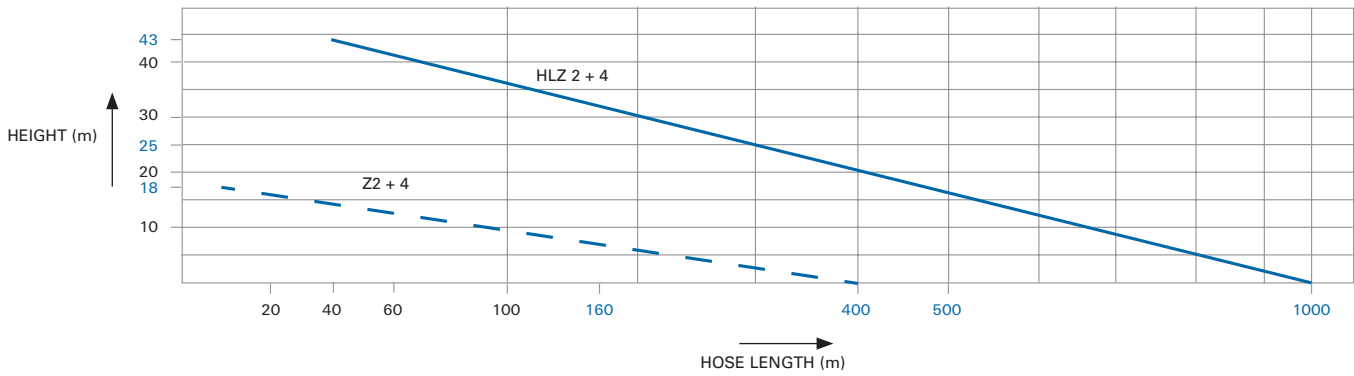
When ordering, specify the following information:

**Table 2: Part details**

Part No.	Description
101825025	HL-Z2 Inductor 200 Lpm
101825020	HL-Z4 Inductor 400 Lpm
101825024	HLZ-Z2 200 Lpm c/w C-coupling
101825019	HLZ-Z4 400 Lpm c/w B-coupling
101625073	Pick-up tube, 1.5 m, c/w D-coupling

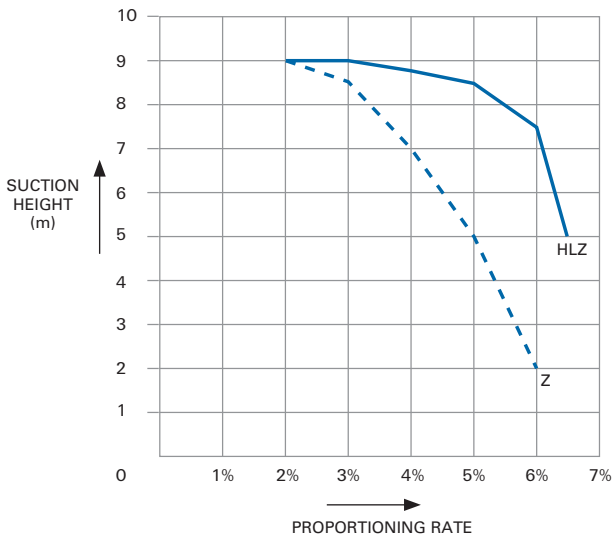
# Performance

**Figure 1: Operating height vs. hose length**



**Note:** Z2 = 42 mm hose  
Z4 = 72 mm hose

**Figure 2: Suction height vs. proportioning rate**



Safety Data Sheets (SDS) are available at [www.skum.com](http://www.skum.com)

**Note:** The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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