

# RFC Admix Variomatic

Universal direct injection foam proportioning system



## Description

The RFC Admix Variomatic is an electrically driven and electronically controlled direct injection foam proportioning system that meets the requirements of volunteer, professional and plant fire brigades in equal. The system works with high precision and reliability and mixes the foam concentrate directly into the pressure outlet, which keeps the water pump free of foaming agent.

## Benefits

### Different system sizes

- three different system sizes with maximum delivery rates of 12 lpm, 24 lpm or 48 lpm
- minimum quantity of 0,1 lpm each for wetting agent application

### Individual design

- supply of up to 4 injection points
- foaming agent supply via standard, external suction inlet or up to 2 foam agent tanks
- filling of the foam agent tanks via the foam agent pump

### Diverse range of functions

- single-channel operation for the supply of one injection point
- multi-channel operation for simultaneous supply of several injection points
- central proportioning rate for all injection points or decentralized proportioning rates per injection point in multi-channel operation

### Different foam qualities

- stepless adjustment of the proportioning rate from 0,1 % to 6 %
- use of foaming agents with a viscosity of over 1000 centistokes at reduced flow rate

### Rapid operational readiness

- activation of the direct injection foam proportioning systems via a quick start button
- automatic priming of the foam agent pump
- customer specific, fixed preselection of foam agent source, proportioning rate and injection points

### Environmentally friendly flushing process

- no immediate flushing after extinguishing necessary and therefore no unnecessary apply of foaming agent
- low water consumption during a necessary flushing process (e.g. when changing the foaming agent or at a low frequency of use)

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## Technical data

System sizes	Variomatic 12	Variomatic 24	Variomatic 48
<b>Design</b>	electric driven and electronically controlled direct injection foam proportioning system		
<b>Dimensions</b> <sup>1</sup>	W x D x H = approx. 472 x 400 - 450 x 453 mm		
<b>Weight</b> <sup>1</sup>	approx. 65 - 67 kg		
<b>Certification</b>	<ul style="list-style-type: none"><li>▪ EN 16327</li><li>▪ ISO 7076-6</li></ul>		
<b>Classification</b>	<ul style="list-style-type: none"><li>▪ PPS 2400 / 0,1 - 0,5</li><li>▪ PPS 1600 / 0,1 - 0,8</li><li>▪ PPS 800 / 0,1 - 1,5</li><li>▪ PPS 400 / 0,1 - 3,0</li></ul>	<ul style="list-style-type: none"><li>▪ PPS 2400 / 0,1 - 1,0</li><li>▪ PPS 1600 / 0,1 - 1,5</li><li>▪ PPS 800 / 0,1 - 3,0</li><li>▪ PPS 400 / 0,1 - 6,0</li></ul>	<ul style="list-style-type: none"><li>▪ PPS 2400 / 0,1 - 2,0</li><li>▪ PPS 1600 / 0,1 - 3,0</li><li>▪ PPS 800 / 0,1 - 6,0</li><li>▪ PPS 400 / 0,1 - 6,0</li></ul>
<b>Drive</b>	24 V electric motor		
<b>Foam agent pump</b>	gear pump		
<b>Foam agent flow rate</b> <sup>2</sup>	0,1 - 12 lpm at 10 bar	0,1 - 24 lpm at 10 bar	0,1 - 48 lpm at 10 bar
<b>Operating pressure</b>	4 - 16 bar		
<b>Proportioning rate</b> <sup>3</sup>	stepless adjustment from 0,1 to 6 %		
<b>Operating modes</b>	<ul style="list-style-type: none"><li>▪ single-channel operation for the supply of one injection point</li><li>▪ multi-channel operation for simultaneous supply of several injection points and a central proportioning rate for all injection points</li><li>▪ multi-channel operation for simultaneous supply of several injection points and decentralized proportioning rates per injection point</li></ul>		
<b>Foam agent source</b>	<ul style="list-style-type: none"><li>▪ standard, external suction inlet</li><li>▪ up to 2 foam agent tanks</li><li>▪ optional filling of the foam agent tanks via the foam agent pump</li></ul>		
<b>Injection points</b>	up to 4 injection points		
<b>Possible configurations</b>	<ul style="list-style-type: none"><li>▪ 1 x foam agent tank / up to 3 injection points / 1 x tank filling (space depth 400 mm)</li><li>▪ 1 x foam agent tank / up to 4 injection points / 0 x tank filling (space depth 400 mm)</li><li>▪ 1 x foam agent tank / 4 injection points / 1 x tank filling (space depth 450 mm)</li><li>▪ 2 x foam agent tank / up to 2 injection points / 2 x tank filling (space depth 400 mm)</li><li>▪ 2 x foam agent tank / up to 3 injection points / 1 x tank filling (space depth 400 mm)</li><li>▪ 2 x foam agent tank / 3 injection points / 2 x tank filling (space depth 450 mm)</li><li>▪ 2 x foam agent tank / up to 4 injection points / 0 x tank filling (space depth 400 mm)</li><li>▪ 2 x foam agent tank / 4 injection points / 1 x tank filling (space depth 450 mm)</li></ul>		
<b>Flow rate measurement (water)</b>	paddle wheel		
<b>Measurement range (water)</b> <sup>4</sup>	50 - 2.400 lpm		
<b>Flow rate measurement (foam)</b> <sup>5</sup>	magnetic-inductive flow meter (MID)		
<b>Foam agent</b>	<ul style="list-style-type: none"><li>▪ foam agent with viscosity up to 150 cSt in single-channel operation</li><li>▪ foam agent with viscosity above 1000 cSt in multi-channel operation</li></ul>		

<sup>1</sup> depth and weight depends on the number of foam agent sources and injection points

<sup>2</sup> at viscosity 20 cSt / 20 °C (the higher foam viscosity the lower maximum flow rate of foam concentrate)

<sup>3</sup> accuracy from 0 % to +40 % for proportioning rates up to 1 % and from 0 % to +30 % for proportioning rates between 1 % and 3 %

<sup>4</sup> per injection point

<sup>5</sup> only with multi-channel operation

## Contact

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