KEG - TECHNIK

MICROMAT M 2/2-b

semi-automatic KEG-internal cleaning and filling machine

Construction:

- The MICROMAT is equipped with an elevating platform and includes all electric and pneumatic parts required for its operation
- The infeed of empty KEGs and the discharge of cleaned and filled KEGs is done manually.
- By means of integrated control soft- and hardware (System S7) the cleaning and filling process is done full automatically.
- Initiators monitor the positions of several pneumatic cylinders
- Liquid detectors control the media flux and re-flux.
- The base frame is made of welded stainless steel.
- Pipe-work, valves and all important mechanical elements are also of stainless steel.
- The machine can be equipped with a conversion unit for different kinds of fitting systems, as well as for KEGGYs and soft-drink-KEGs.

Technical Information MICROMAT M 2/2-b

capacity	20 – 35 KEG/h	
stations	Station 1 :	internal cleaning
	Station 2 :	rinsing, sterilization and filling
dimensions	length (T)	: 1.350 mm
	width (B)	: 1.100 mm
	height (H)	: 2.200 mm ± 50
	height of working station	: 660 mm ± 50
connections	product :	DN 25
	media :	DN 25
	control air	: socket ¾ "
Electrical connections	Voltage :	230/400 V, 50 Hz
	connection power	: 0,5 kW (without tank pumps)
Noise level	The noise level is in accordance with the German rules for prevention of accidents, less than 85 dB A.	

Energy consumption for the required media

media	pressure and temperature	consumption/KEG approx.
• **hot water**	**2 - 3 bar g (80 - 95 °C)**	**7 l**
• **mixed water (re-used hot water) or fresh water**	**2 - 3 bar g (20 - 60 °C)**	**7 l**
• **detergent**	**2 - 3 bar g (approx 80 °C)**	**circulating 15g detergent**
• **saturated steam**	**0,5 bar g (111 °C) to 1,5 bar g (127 °C)**	**0,25 kg**
• **pressure air (oil-free)**	**4 - 10 bar g**	**0,13 m^3**
• **sterilized air**	**1,5 - 3,0 bar g**	**0,2 - 0,3 m^3**
• **counter-pressurization gas CO_2, N_2, sterilized air**	**2,5 - 5,5 bar g**	**CO_2 - consumption: 150-200 g for a 50 l KEG and a counter-pressure of 2 bar in the product**

Attention!

We assume that pressure reducing valves are installed.
These media should be adjustable within the range of pressure indicated.

The hot water used for rinsing can be collected in a tank for mixed water and then be re-used for the internal pre-cleaning of the KEGs.

Additionally, the mixed water (re-used hot water) can be taken for the external KEG-cleaning.

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