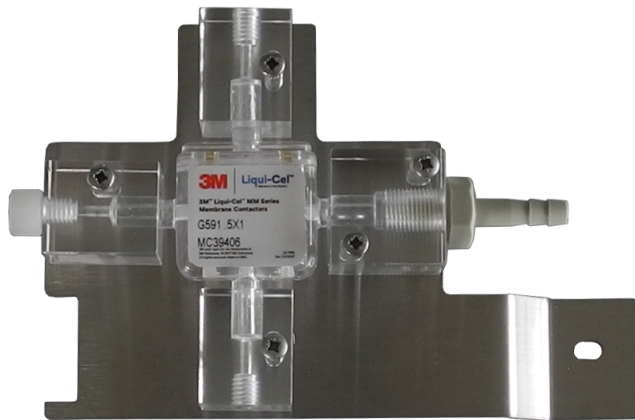


Degassing Membrane for AMI Silitrace, AMI Silitrace Dual Stream and AMI Silitrace Ultra

A-82.321.100

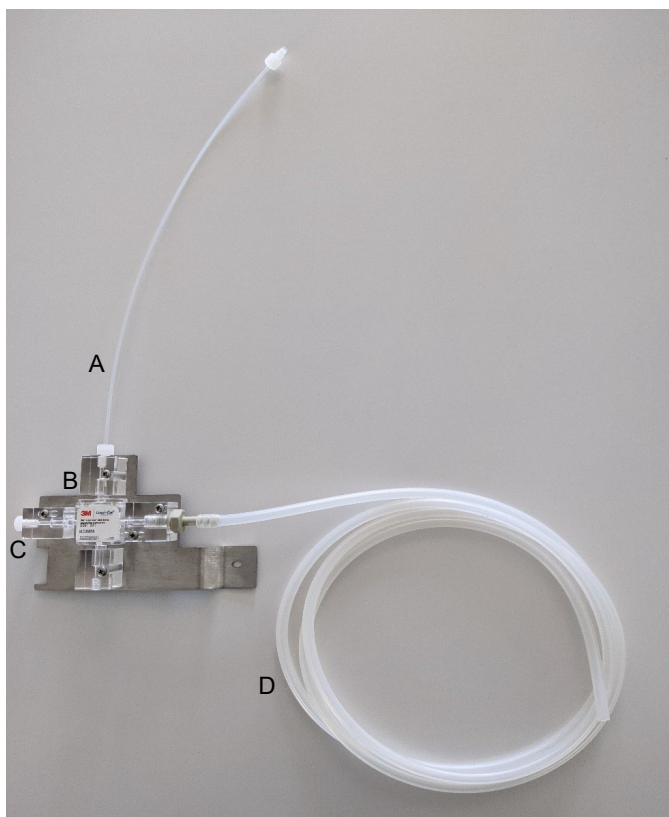


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1. Contents of the Installation Kit

The installation kit contains the following items:

- ♦ Additional sample tube [A]
- ♦ Degassing membrane mounted on steel panel [B] with blind plug [C] on the left port.
- ♦ 2-meter tube [D] for connection of the degassing membrane to the vacuum pump




2. Additionally Required Items

Vacuum pump In addition to the items included in the installation kit, a suitable vacuum pump must be procured by the customer. The vacuum pump must guarantee a vacuum of at least -0.3 bar.

The installation kit has been successfully tested with the following vacuum pump:

Manufacturer: KnF
Type: Laboport N86KT.18

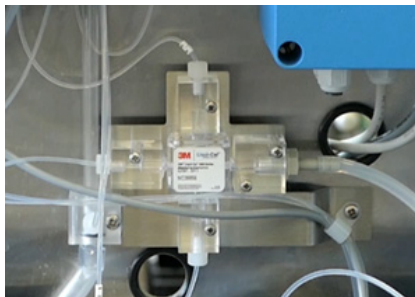
It is possible to use a different vacuum pump, but the characteristics should be similar to those of the tested pump. The technical data of the tested pump are given in the Appendix on  7.

Vacuum manometer Optionally, it is possible to connect a manometer to the port on the left side of the degassing membrane. The port has an M6 female thread and is sealed with a blind plug when delivered.

The vacuum manometer must be procured by the customer if required.

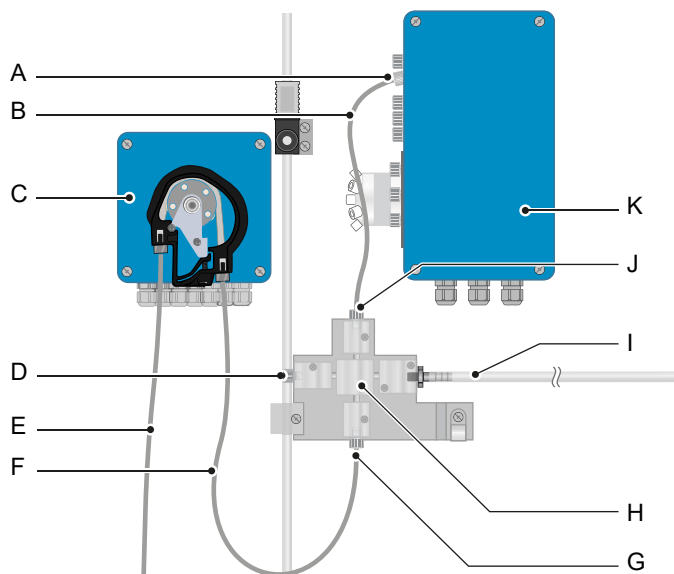
3. Installation

- Preparation**
- 1 Select <Maintenance>/<Prepare Maintenance>.
 - 2 Follow the instructions on the display.
(Put suction lances into a bucket with high purity water).
 - 3 Wait until the peristaltic pump stops.
 - 4 Stop sample flow.
- Mounting**
- 5 Mount the degassing membrane to the instrument panel as shown in the picture. Use the screw of the cable holder to fix it.



- Connecting tubes**
- 6 Unscrew tube 03 from inlet [A] of the reaction coil and screw it to inlet [G] of the degassing membrane.
 - 7 Connect outlet [J] of the degassing membrane with inlet [A] of the reaction coil using the additional tube.
 - 8 Connect the degassing membrane to the vacuum pump using tube [I] included in this installation kit. Shorten the tube to the required length if necessary.
 - 9 If applicable, remove the blind plug [D] and connect a suitable manometer.

Connection overview



- A** Inlet of reaction coil
- B** Additional tube
- C** Peristaltic pump
- D** Blind plug / possibility to connect a manometer
- E** Tube 02
- F** Tube 03

- G** Inlet of degassing membrane
- H** Degassing membrane
- I** Tube from vacuum pump
- J** Outlet of degassing membrane
- K** Photometer

Note: Please do not modify any tube connections other than those mentioned in this instruction.

4. Startup

Switch on the vacuum pump and follow the steps in the “Start-up Procedure” section of the manual.

5. Maintenance

If you want to clean the instrument chemically, it is necessary to bypass the degassing membrane. Otherwise, the membrane will be damaged.

Appendix: Technical Data of Tested Pump

N 86 KT.18

Pneumatic performance			
Max. permissible operating pressure [bar g]	2.5		
Ultimate vacuum [mbar abs.]	160		
Delivery rate at atm. pressure [l/min]*	5.5		
Pneumatic connections			
Hose connection [mm]	ID 4		
Ambient and media temperature			
Permissible ambient temperature	+ 5 °C to + 40 °C		
Permissible media temperature	+ 5 °C to + 40 °C		
Other parameters			
Weight [kg]	1.9		
Dimensions: L x H x W [mm]	164 x 141 x 90		
Maximum permissible ambient relative humidity	80 % for temperatures up to 31 °C, decreasing linearly to 50 % at 40 °C		
Max. altitude of site [m above sea level]	2000		
Electrical Data			
Voltage [V]	100	115	230
Frequency [Hz]	50/60	60	50
Max. operating current [A]	1.8	1.1	0.65
Power consumption pump [W]	60	55	60
Maximum permitted mains voltage fluctuations	+/- 10 %	+/- 10 %	+/- 10 %
Fuse pump** (2x) T [A]	3.15	3.15	1.0
Protection class motor	IP20		

Tab. 5

*Liters in standard state (1,013 mbar)

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 Installation Instruction

