

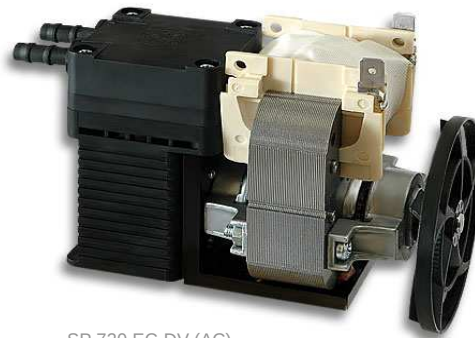


## Eccentric Diaphragm Pumps for Gas / Air

### SP 720 EC / 725 EC / 725 EC-TH



SP 720 EC-DV (DC)  
SP 725 EC-DV (DC)



SP 720 EC-DV (AC)



SP 725 EC-TH-DV (DC)

#### Product Features

- optimized for pressure applications
- oil free
- maintenance free
- reduced vibrations
- low noise
- small size
- lightweight
- minimal current consumption
- longevity
- high restart capacity

#### Applications

- Autoclaves
- Autosamplers
- Air Brush
- Gas Detectors
- Pneumatics
- Industrial Applications
- Medical Applications
- Blood Pressure Monitoring
- Anaesthesia Equipment
- Exhaust Gas Analysers
- Pipetting Devices



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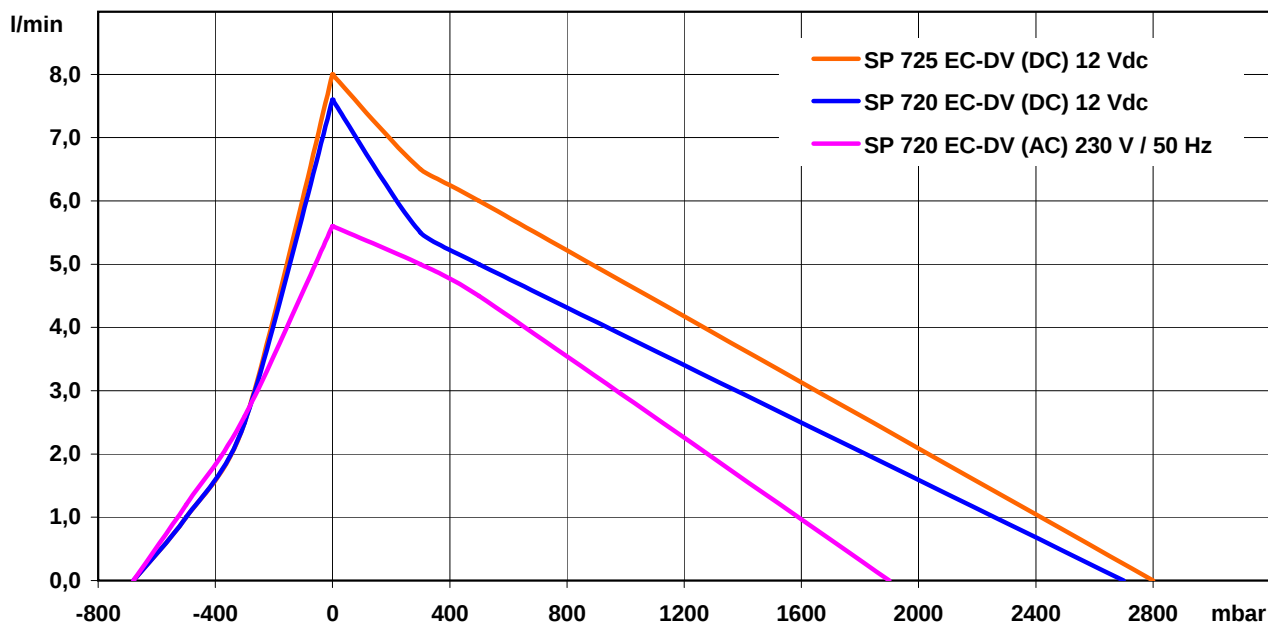


## SP 720 EC / 725 EC / 725 EC-TH

The pumps listed below represent a typical selection of our wide range of eccentric pumps and are intended for initial tests. Customised versions for your individual application would be made without extra costs - please contact us!

| Designation                                                                                                |  | SP 720 EC-DV (AC)                |  | SP 720 EC-DV (DC)                                                |         | SP 725 EC-DV (DC) |         |
|------------------------------------------------------------------------------------------------------------|--|----------------------------------|--|------------------------------------------------------------------|---------|-------------------|---------|
| Operating Voltage                                                                                          |  | 230 V / 50 Hz                    |  | 12 Vdc                                                           | 24 Vdc  | 12 Vdc            | 24 Vdc  |
| Art.No.                                                                                                    |  | 7s54080                          |  | 7s54002                                                          | 7s54003 | 7s54014           | 7s54015 |
| Pneumatic Performance                                                                                      |  |                                  |  |                                                                  |         |                   |         |
| Free Flow [l/min]                                                                                          |  | 5,6                              |  | 7,6                                                              |         | 8,0               |         |
| flow at:                                                                                                   |  | Pressure Side                    |  |                                                                  |         |                   |         |
| 300 mbar [l/min]                                                                                           |  | 5,0                              |  | 5,5                                                              |         | 6,5               |         |
| 500 mbar [l/min]                                                                                           |  | 4,5                              |  | 5,0                                                              |         | 6,0               |         |
| max. Pressure [mbar]                                                                                       |  | 1900                             |  | 2700                                                             |         | 2800              |         |
| flow at:                                                                                                   |  | Vacuum Side                      |  |                                                                  |         |                   |         |
| -300 mbar [l/min]                                                                                          |  | 2,6                              |  | 2,5                                                              |         | 2,5               |         |
| max. Vacuum [mbar]                                                                                         |  | -680                             |  | -680                                                             |         | -680              |         |
| Although the pumps are able to produce vacuum above -400 mbar, it is not recommended to exceed this limit! |  |                                  |  |                                                                  |         |                   |         |
| Motor / Power Consumption                                                                                  |  |                                  |  |                                                                  |         |                   |         |
| Motor Type                                                                                                 |  | Shaded Pole                      |  | Iron Core DC / Double Ball Bearings, Electromagnetic Suppression |         |                   |         |
| standard                                                                                                   |  | -                                |  | Brushless DC Motors                                              |         |                   |         |
| optional                                                                                                   |  |                                  |  |                                                                  |         |                   |         |
| max. Current [mA]                                                                                          |  | 39 W                             |  | 1600                                                             | 900     | 1450              | 750     |
| Construction                                                                                               |  |                                  |  |                                                                  |         |                   |         |
| Pump Head                                                                                                  |  | PPS                              |  |                                                                  |         |                   |         |
| standard                                                                                                   |  | customer specific - upon request |  |                                                                  |         |                   |         |
| optional                                                                                                   |  |                                  |  |                                                                  |         |                   |         |
| Valves                                                                                                     |  | EPDM                             |  |                                                                  |         |                   |         |
| standard                                                                                                   |  | FPM (Viton)                      |  |                                                                  |         |                   |         |
| optional                                                                                                   |  |                                  |  |                                                                  |         |                   |         |
| Weight [g]                                                                                                 |  | 858                              |  | 570                                                              |         | 570               |         |

### Performance Curves



**SP 720 EC / 725 EC / 725 EC-TH**

The pumps listed below represent a typical selection of our wide range of eccentric pumps and are intended for initial tests. Customised versions for your individual application would be made without extra costs - please contact us!

| Designation               |  | SP 725 EC-TH-DV (DC)                                                         |          |         |          |
|---------------------------|--|------------------------------------------------------------------------------|----------|---------|----------|
| Operating Voltage         |  | 12 Vdc                                                                       |          | 24 Vdc  |          |
| Art.No.                   |  | 7s54070                                                                      |          | 7s54071 |          |
| Pneumatic Performance     |  |                                                                              |          |         |          |
|                           |  | serial                                                                       | parallel | serial  | parallel |
| Free Flow [l/min]         |  | 8,5                                                                          | 15,0     | 8,5     | 15,0     |
| flow at:                  |  |                                                                              |          |         |          |
| 300 mbar [l/min]          |  | 7,3                                                                          | 11,5     | 7,3     | 11,5     |
| 500 mbar [l/min]          |  | 6,5                                                                          | 9,3      | 6,5     | 9,3      |
| max. Pressure [mbar]      |  | 3100                                                                         | 1800     | 3100    | 1800     |
| flow at:                  |  |                                                                              |          |         |          |
| -300 mbar [l/min]         |  | 4,2                                                                          | 5,7      | 4,2     | 5,7      |
| max. Vacuum [mbar]        |  | -950                                                                         | -720     | -950    | -780     |
| Motor / Power Consumption |  |                                                                              |          |         |          |
| Motor Type                |  | Iron Core DC Motor with Double Ball Bearings and electromagnetic Suppression |          |         |          |
| standard                  |  | 230V / 50Hz or 120V / 60Hz Shaded Pole Motors                                |          |         |          |
| optional                  |  |                                                                              |          |         |          |
| max. Current [mA]         |  | 1400                                                                         | 1800     | 700     | 900      |
| Construction              |  |                                                                              |          |         |          |
| Pump Head                 |  | PPS                                                                          |          |         |          |
| standard                  |  | customer specific - upon request                                             |          |         |          |
| optional                  |  |                                                                              |          |         |          |
| Valves                    |  | FPM (Viton)                                                                  |          |         |          |
| Diaphragm                 |  | EPDM                                                                         |          |         |          |
| standard                  |  | FPM (Viton)                                                                  |          |         |          |
| optional                  |  |                                                                              |          |         |          |
| Weight [g]                |  | 850                                                                          |          |         |          |

**Performance Curves**

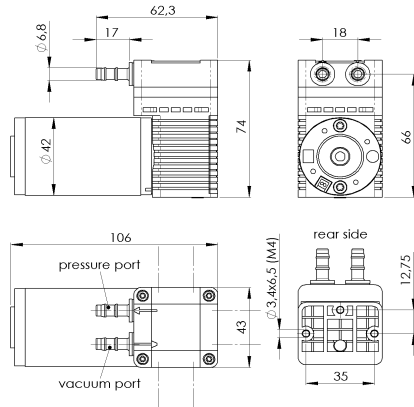


# Eccentric Diaphragm Pumps for Gas / Air

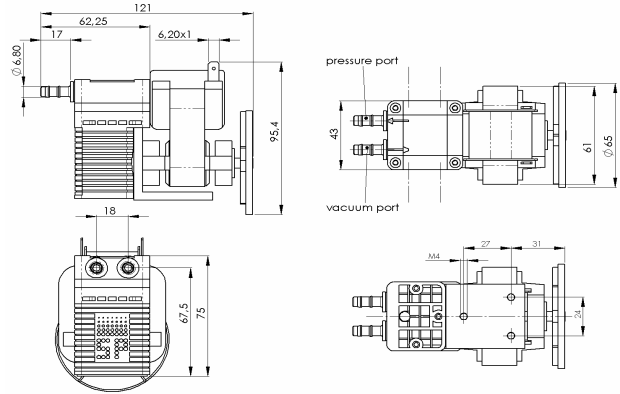
## SP 720 EC / 725 EC / 725 EC-TH

Standard: connection ports as shown. Optional: 2 or 3 other port positions possible (see dashed lines)  
 Standard: nozzles for tube. Optional: female screw thread 1/8" or customized connectors

### SP 720 EC-DV (DC) / 725 EC-DV (DC)



### SP 720 EC-DV (AC)



### SP 725 EC-TH-DV (DC)

