

# PAUL-GOTHE-GmbH Bochum

Wittener Straße 82  
D-44789 Bochum



## Manual for pump Art.-No.: 17.2-SA5, 17.03-SC8 and 17.04

### Operating:



The pump was designed to work with clean air or inert gases. The temperature of intake gases must be between 0 and 40°C. The pump must not be used to pump aggressive, harmful, polluting gases, or oxygen.

Make sure that pump exhaust is not obstructed by either its connecting hose or fittings.

The pump may reach high temperatures when operating.

On the suction side is installed a vacuum gauge, to indicate the vacuum in the system. The pump is gas tight, which means the gas meter can install at the exit of the pump. Please make always a leak check according to EN 13284-1. If the pump is not gas tight, place the gas meter in front of the pump. The pump should be checked. Avoid overpressure on the exit.

At the version with Bypass-valve can regulate the suction rate by using the gate valve. Open means that parts of the gas runs in cycle and less of the gas will be sucked. The screw fitting at the gate valve seals against wrong air and fixed the shaft.

Too tighten means the gate valve is difficult to turn and too loose make a leak.

### Power off:

Before the pump is switched off, let it run with open intake for about 15-30 minutes. This is to eliminate any moisture built up inside the intake chamber and avoid rotor oxidation.

If the pump is left unused for long periods, it should be disconnected from mains supply and the user system in addition to carrying out the above procedure.

If the pump don't start after long unused, please disconnect the power supply from the pump and turn the rotor manual by carefully turning of the fans. If the fans cannot be turned, the carbon blades are blocked or corroded. Please bring in the pump for maintenance.

### Maintenance:

Shorter maintenance intervals may be required according to specific operating conditions and installation. If the pump is gas tight and the vacuum is more as 800 hPa, no exchange of the carbon blade is necessary.

The pump is a dry running pump and no oil is necessary.

Only use spare parts kits supplied by the manufacturer, as they include all parts and instructions required to ensure successful maintenance.

Fan guard and pump should be cleaned to remove any dust deposits. This can be done using compressed air and a dry cloth. Do not use any fluids or detergents.

Make sure that operator is specifically trained for operating vacuum pumps and observes all rules in force regarding personal safety and protective equipment.

The dismantling and assembling requires professional knowledge and special tools, that again the pump is gas tight. This maintenance work we would like to perform for you. Please get in contact with us.

### Data:

|  | 17.2-SA5 | 17.03-SC8 | 17.04     |
|--|----------|-----------|-----------|
| Rated flow rate (50 Hz) m <sup>3</sup> /h      | 4        | 6,5       | 10        |
| Final pressure (Absolute) hPa                  | 120      | 120       | 120       |
| Motor power kW                                 | 0,15     | 0,23      | 0,37      |
| Working temperature (room temperature 20°C) °C | 45-50    | 65-70     | 70-75     |
| Voltage V (Current A)                          | 220 (1)  | 220 (1,6) | 220 (3,3) |
| Weight kg                                      | 6        | 12        | 15        |

