

Operating instructions

Feeder unit

ZE - ZZ



Feeder units 60-1200 l/h

Operating instructions Feeder unit ZE - ZZ

1.0 Scope of delivery

Screws and dowel pins are included for the wall fastening. On placing the device on the floor, please use the transport fasteners. Operating instructions included.

2.0 Application

Anywhere, where oil should pumped in 2-pipe systems. Today only, e.g. in case of cave tanks with completely visible pipe systems. The installation site is to choose as near as possible to the tank. Furthermore, it must be guaranteed that adjusting and control works can be effected. The unit must be installed absolutely horizontally.

The ZE-ZZ pumps the oil towards the burner and thus relieves the burner pump.

In order to install the ZE-ZZ suction pumps, the following preconditions have to be fulfilled.

• We recommend a tube diameter of : ZE-ZZ 60 10 mm ZE-ZZ 600 18 mm ZE-ZZ 120 12 mm ZE-ZZ 1200 22 mm

ZE-ZZ 320 15 mm

- The distance between tank an unit should not be superior to 4 m vertically and 200 m horizontally.
- The distance between unit and burner is without any restrictions.

3.0 Hints

The unit could contain rests of test oil on delivery.

The ZE-ZZ should only be installed by professionals. That is why these operating instructions are reserved for professionals.

All correspondent orders as well as operating instructions given by the burner and boiler manufacturers have to be complied.

In order to avoid excessive gas/air precipitations, the vacuum should be lower than -0.4 bar and not higher than -0.6 bar.

The pipeline's cross section of suction and pressure line should comply with the connections of the unit. Do not reduce on the suction side; if necessary, the next higher nominal width can reduce the pipeline resistance reasonably. On the pressure side you can reduce the unit corresponding of the quantity required by the burner, if necessary.

4.0 Preparations

The ZE-ZZ pump can be mounted on the wall as well as be placed on the floor. The full weight of the device can amount to a total of 60 kg. Thus, the wall bearing capacity has to be verified in case of wall mounting.

On using three-phase current systems, pay attention that the CEE socket's rotary field is clockwise.

5.0 Installation / Starting

For wall mounting do not completely screw in the supplied screws into the wall. Then hang the unit onto the screws and screw them in completely afterwards.

Fittings and conductions must be free from dirt and loose solids.

All connections and conductions must be mounted without strain and tight.

Open all barriers to the tank inside the suction line; open the ball valve on the pressure line.

Electric connections of the motor only by means of the motor protection switch with control lights (indication of the operations status).

On connecting the motors (according to motor circuit diagram) pay attention to the right sense of rotation (arrow on motor or pump).

On starting of the unit, please vent the filter and, if necessary, on the suction side. Only open the manometer's shut-off devices for control or adjusting works; otherwise always keep closed.

The pumps must not run dry!

6.0 Maintenance

The filter has to replaced regularly – once a year depending on the dirt. Only use SIKU filters $50-75 \, \mu m$. Except for that the ZE/ZZ unit is maintenance-free.

Should in exceptional cases the replacement of parts be necessary, only original ZE/ZZ spare parts have to be used. Otherwise the flawless operation cannot be guaranteed.

7.0 Technical specifications:

Connections: ZE-ZZ 60 – ZE-ZZ 120 suction: 3/8" pressure: 3/8"

ZE-ZZ 320 – ZE-ZZ 1200 suction: 3/4" pressure: 3/4"

For fuel oil: "EL"

Weight empty: ZE 60 - ZE 1200 39 – 48 kg

ZZ 60 - ZZ 1200 44 - 60 kg

Measurements: 700 mm x 400 mm x 730 mm (L x D x H)

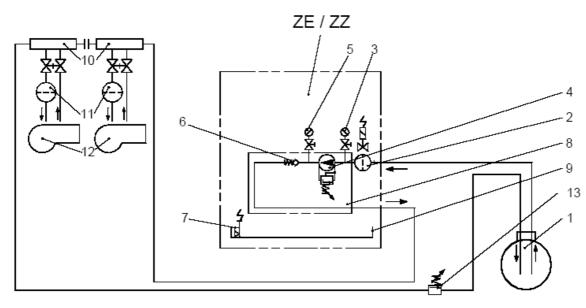
Fitting position: Wall or floor (horizontally)

System of protection: Motor IP 55

Connection plug: ZE-ZZ 60 – ZE-ZZ 320 230 V shock-proof plug

ZE-ZZ 600 – ZE-ZZ 1200 400 V CEE, 16 A

8.0 Scheme



- 1. Tank
- 2. Filter with solenoid valve
- 3. Vacuum gauge with shut-off device
- 4. Internal gear pump (with overflow valve) with motor
- 5. Pressure gauge with shut-off device non-return valve
- 6. Leakage alarm

- 8. Control block
- 9. Oil sump tray
- 10. OEG gas/air vent with ball valve shut-off device
- 11. Filter
- 12. Burner
- 13. Overflow valve on the return side