

COMPLI 400
SEWAGE LIFTING STATIONS



- Ready to connect
- Submersible
- Auxiliary inlets vertical/horizontal
- Revolver clamping flange
- PE-tank approx. 70 L
- Vortex impeller
- Smart home compatible

DESCRIPTION

This sewage lifting station for detached houses is fitted for versatile fields of application. During the design work, special attention was given to easy handling (recessed grips), space-saving and uncomplicated installation.

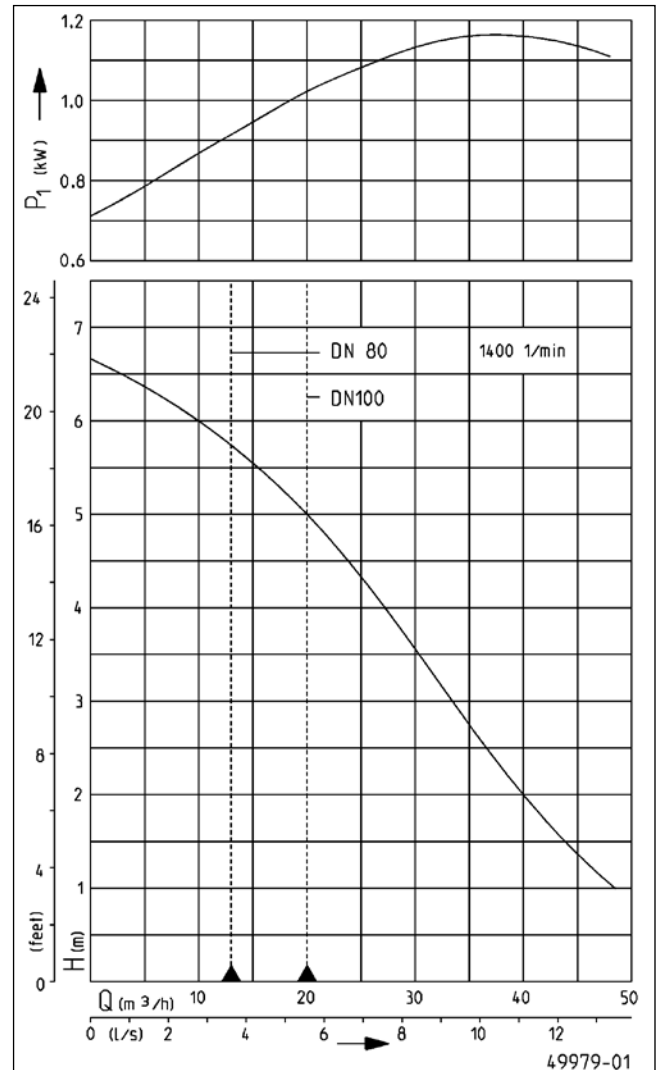
The submersible unit is permitted for general use in areas subject to flooding. The control unit has to be fitted in a well ventilated flood-proof room.

The PE tank has freely accessible connections, a top-mounted cleaning opening and a height-adjustable inlet socket which can be infinitely adjusted on site to an inlet height of between 180 and 250 mm depending on the drainage situation.

Other horizontally and vertically arranged additional inlets increase the connection and drainage options. The vortex impeller of the pump offers the safety you can rely on.

The Compli sewage lifting station can be integrated into a smart infrastructure. The FTJP radio transmitter is connected to the potential-free contact of the lifting station. It is now possible to transmit the switching status (e.g. an alarm message) to an EnOcean-capable smart home gateway (Wibutler, Afriso, Homee).

PERFORMANCE



| Type | Delivery head H [m] | 1 | 2 | 3 | 4 | 5 | 6 |
|-------------|---------------------------------|----|----|----|----|----|----|
| complli 400 | Flow rate Q [m ³ /h] | 48 | 40 | 33 | 27 | 20 | 10 |

Specifications can be changed without notice. Performance subject to ISO 9906 tolerances. The minimum flow velocity in the pressure piping must be 0.7 m/s according to EN 12056. This data is represented in the performance curve as a limit of application.



SCOPE OF SUPPLY

Ready-to-connect disposal system according to German / European standard 12050 with height-adjustable DN 100 inlet socket for inlet heights 180 to 250 mm, horizontal and vertical additional inlets Ø DN 100/DN 50, mounted submersible pump and DN 80 connection flange with pipe unit Ø 110, reducer ring Ø 110 to Ø 90, optionally with pre-mounted DN 80 non-return valve, one elastic connection each with clamps for plastic pressure pipes and a sleeved pipe for DN 70 ventilation pipe, automatic

level control, control unit (IP 44 type of protection) with motor protection, contactors, transformer, mains-dependent, optionally acknowledgeable alarm system and potential noc-contact for collective failure messages, optical display of sense of rotation (three-phase current), manual-0-automatic switch as well as an adjustable maintenance interval display.

Cable between tank and control 4 m. Cable between control and plug 1,5 m.

MECHANICAL DATA

| | | | |
|---------------|----------------------------------|-----------------|-------------------------|
| Pump | Vertical single-stage | Impeller | Vortex impeller, GFK |
| Free passage | 70 mm | Motor housing | Grey cast iron |
| Pressure pipe | DN 80/100 | Pump housing | Plastic, grey cast iron |
| Bearing | Ball bearings, grease-lubricated | Submersible | Yes |
| Shaft | Stainless steel | Pressure outlet | DN 80 |
| | | Tank capacity | 70 l |

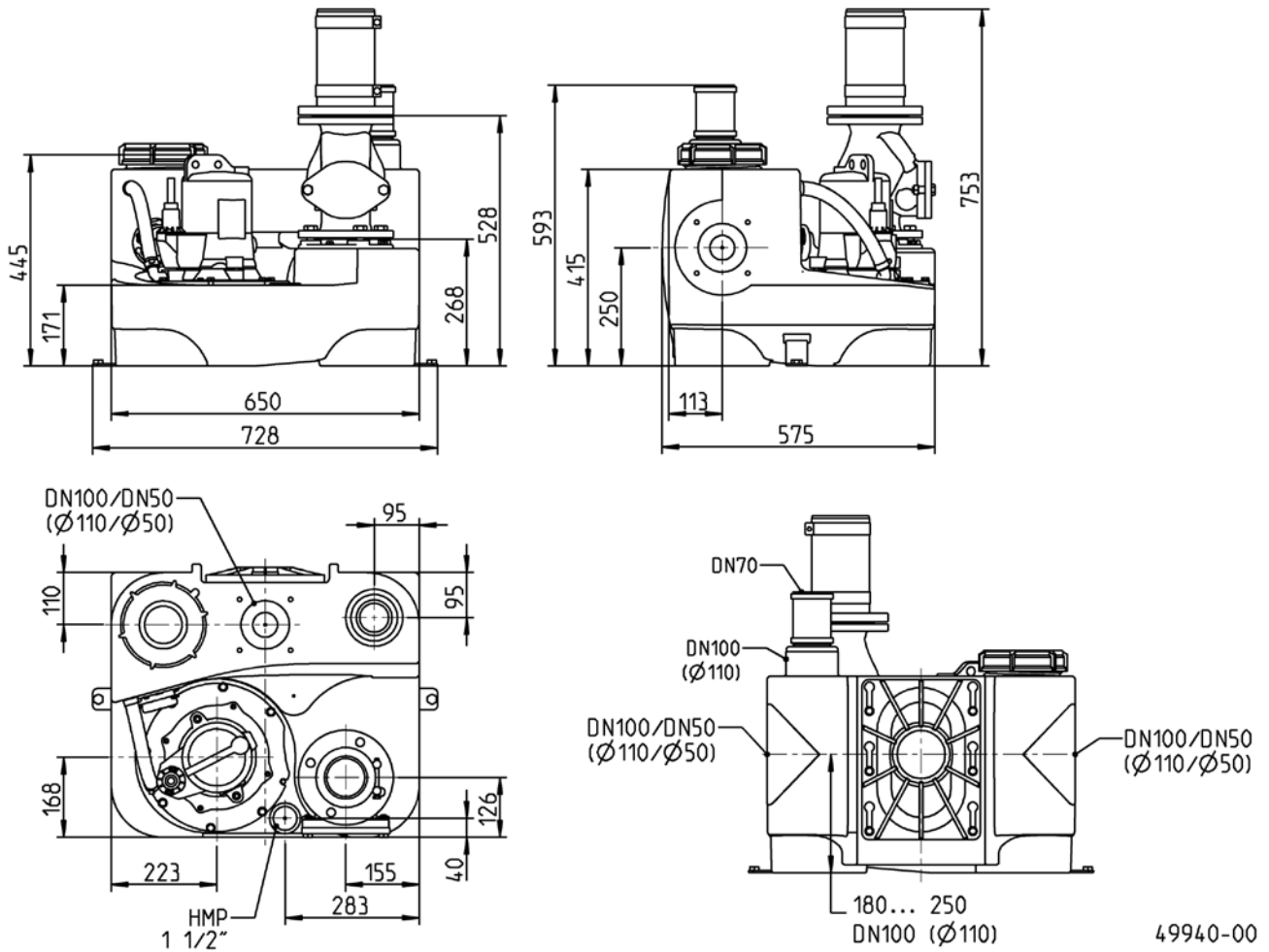
ELECTRICAL DATA

| | | | |
|-------------------|------------|--------------------|-----|
| Power line | 4m H07RN-F | Insulation class | F |
| Type of enclosure | IP 68 | Winding thermostat | Yes |

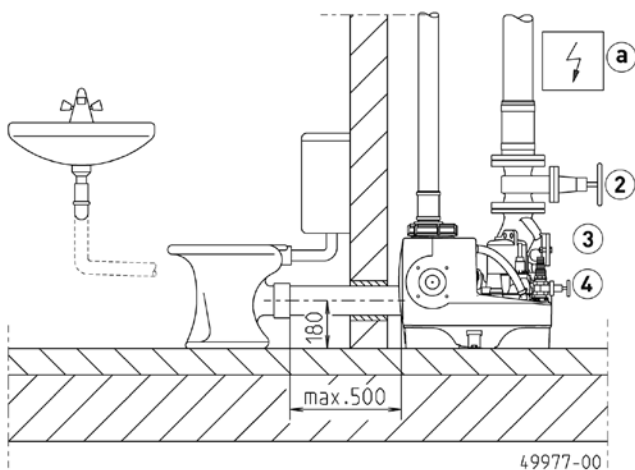
COMPLI 400

| Type | Code No. | Voltage | Motor rating | | Current | Wires | Plug | Weight |
|---|----------------|--------------|--------------|---------|---------|-------|--------|--------|
| | | | P1 | P2 | | | | |
| compl 400 | JP50079 | 3/N/PE~400 V | 1.25 kW | 0.87 kW | 2.2 A | 6G1,5 | CEE | 52 kg |
| compl 400 E | JP50081 | 1/N/PE~230 V | 1.55 kW | 1.10 kW | 7.1 A | 4G1,5 | Safety | 53 kg |
| compl 400 with non-return valve mounted | JP50080 | 3/N/PE~400 V | 1.25 kW | 0.87 kW | 2.2 A | 6G1,5 | CEE | 67 kg |
| compl 400 E with non-return valve mounted | JP50082 | 1/N/PE~230 V | 1.55 kW | 1.10 kW | 7.1 A | 4G1,5 | Safety | 68 kg |

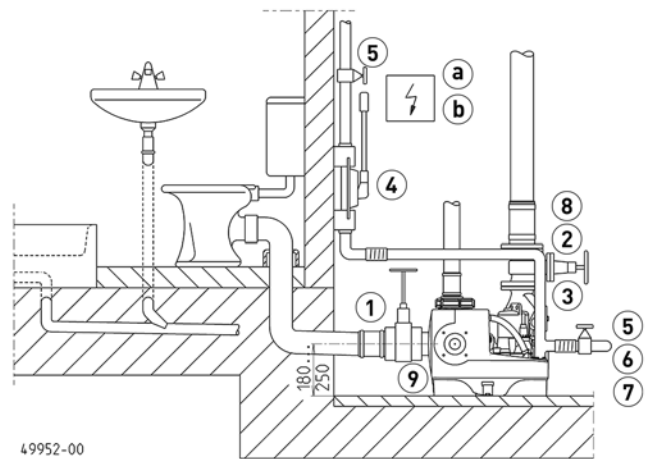
Dimensions with swing-type check valve



Example of installation




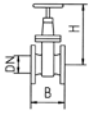







Example of installation






All types have DN 80 / PN 10 connecting flange, however with pipe socket DN 100. For this reason, a non-return valve for the pressure pipe need to be chosen for DN 80 only in case of direct erection. The ownstream pressure pipe is connected to DN 100 by an elastic connection. Sewage lifting stations are to be used for the transport of faecal matter and domestic wastewater in building drainage systems as described in German standard DIN 1986 T3. In keeping with the stipulations of German / European standard EN 12056-4 they

have to be mounted with collecting tanks inside building permitting a free space of 60 cm for operation and repair. The pressure pipe has to be passed above the locally defined backpressure level and a non-return valve tested in keeping with German / European standard 12050-4 has to be mounted. In keeping with German / European standard 12056 the ventilation pipe has to be passed up to the roof. EN 12056 paragraph 5.1 In applications where the waste-water inlet must not be interrupted a double system has to be installed.

MECHANICAL ACCESSORY

| | | | | Code No. |
|---|---|---|---|-----------------|
|  | ① Inlet gate valve PVC | with two pipe sockets, DN 100, PN1 | 360x295 (HxW) | JP28297 |
|  | ② Sluice valve | DN 80, PN 10, EN 1171 | 315x180 (HxB) | JP00639 |
|  | ③ Swing-type check valve | R 80 EN 12050-4 | DN 80, PN 4, flange PN 10, EN 558, 260 (H) | JP00706 |
| | | R 80 G EN 12050-4 | DN 80, PN 4, flange PN 10, EN 558, with counter weight, 260 (H) | JP00707 |
|  | Ball-type check valve | K 80 EN 12050-4 | DN 80, PN 4, flange PN 10, EN 558, 260 (H) | JP49205 |
| | ④ Connection for emergency de-watering | with stop valve and hose connection 1", 1/4" and 1/2" | | JP49138 |
|  | Hand diaphragm pump | for emergency purposes (up to H geod 15 m) | 640x1 1/2" (HxD) | JP00255 |
|  | ⑤ Stop valve | brass, 1/2" (DN 40), PN 16 | 125x60 (HxB) | JP44786 |
|  | ⑥ Elastic connection | 1/2" (DN 40), PN 4 | 120x50 (HxD) | JP44777 |
|  | ⑦ Hose band clamp | 1/2" | | JP44763 |
|  | ⑧ Adapter ring | DN 100-DN 80 SML | | JP50174 |
|  | ⑨ Closing set | DN 100, required for lateral connection | | JP50172 |

ELECTRICAL ACCESSORY

| | | | | Code No. |
|---|-------------------------------|----------------------------------|--------------------------------|-----------------|
|  | a Rechargeable battery | 9 V, for mains independent alarm | | JP44850 |
|  | b Smart Home | FTJP radio transmitter | | JP47209 |
|  | c Alarm unit | Alarm unit compli | reed contact switch, 4 m cable | JP50171 |