

Premium disinfection gate

2509466, 2509465



MS Schippers

Passion for Farming

nl Klantenservice
fr Klantenservice/Service Clientèle
de Kundenservice
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en Customer Service
fr Service Clientèle
es Customer Service Export

+31(0) 497-339787
+32(0)14-820713
+49(0) 2833 923630
+45 89884187
+34 931816433
+44(0) 1733592049
+33(0) 299854747
+31(0) 497700278

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1. Structure and function This chapter describes and illustrates the mobile pump station including its structure and function.

General structure and function The mobile pump station of SCHLEIFER Maschinenbau GmbH is used for the mobile service water supply of machines and plants, especially for the mobile spray bar system of SCHLEIFER Maschinenbau GmbH. The pump station consists of a 1000 liter storage tank (IBC), a booster pump with stainless steel pump housing and a control cabinet. The entire system is permanently mounted on a stainless steel collection tray and can be transported with a pallet fork or pallet truck. After filling the storage tank at a central water tap, the system is transported to the installation site. The pumping station is connected to the desired machine or system via a connecting hose with quick coupling. Power is supplied via a standard CE cable connection plugged into the side of the control cabinet. The system is switched on via the selector switch on the control cabinet. With the manual option, the pump runs in continuous operation. In automatic mode, the pump is switched by an external switch and an internal timing relay. To protect the pump, the system is switched off via a float switch if the water level is too low.

The mobile pump station is electrically operated and is connected via a standard cable connection (400 V/16 A/5-pin). The power connection is located on the side of the control cabinet. The system is switched on via the selector switch on the control cabinet. With the manual option, the pump runs in continuous operation. In automatic mode, the pump is switched by an external switch and an internal timing relay. The green control lamp indicates that the pump is ready for operation. In case of a fault, the red control lamp will be illuminated.

2. Notes on transport and commissioning The next section describes the requirements for the installation location and contains transport instructions as well as notes on assembly, initial commissioning and disassembly.

2.1 Safety-relevant site and ambient conditions The Mobile Pump Station must be set up on a firm, level foundation.

2.2 Transport instructions The mobile pump station is generally delivered and commissioned by SCHLEIFER Maschinenbau GmbH. If the machine must be transported, the following points need to be observed: • Hoses, cables and pipes and their covers must not be damaged! • When lifting the machine with a forklift, the centre of gravity must be observed to avoid the risk of accidents! Especially when the storage tank is full, the machine may start to swing and must be secured if necessary.

2.3 Initial start-up / assembly The initial start-up of the mobile pump station is generally carried out by SCHLEIFER Maschinenbau GmbH. An employee of SCHLEIFER Maschinenbau GmbH or an

authorized representative will instruct the operating personnel in the handling of the machine upon delivery of the mobile pump station.

3.1 Commissioning the mobile pump station

1. Transport the mobile pump station to a central water tap. Caution! Pay attention to the centre of gravity of the system, secure additionally if required.
2. Set the system down. Caution! The ground must be approved for the total weight.
3. Close the shut-off valve at the tank outlet.
4. Open the screw cap at the tank inlet.
5. Fill the tank with water.
6. When adding additives, ensure the correct mixing ratio specified by the manufacturer. Use personal protective equipment (occupational safety!). It is essential to position the safety data sheet of the additive stating the mixing ratio freely accessible on the system / tank (danger to life).
7. Close the screw cap at the tank inlet.
8. Transport the system to the installation site. Caution! Pay attention to the centre of gravity of the system. Filling with water can cause the centre of gravity to shift on uneven ground. Secure the system if necessary. Maintain appropriate speed.
9. Place the pump station on solid level ground.
10. Connect the pump hose to the machine or system with a quick coupler.
11. Open the shut-off valve at the tank outlet.
12. Connect the cable to the plug-in connection at the control cabinet. The green “ready for operation” control lamp is illuminated.
13. Ensure that the system can be switched on without danger.
14. Briefly change the selector switch to manual operation and the check rotation direction of the pump. If necessary, change the direction of rotation.
15. Start up the pump.
16. In automatic mode, align the external switch and check the switch-on and switch-off operations.

3.2 Refilling the mobile pump station

1. Set the selector switch at the control cabinet to position 0.
2. Close the shut-off valve at the tank outlet.
3. Disconnect the cable from the plug-in connection at the control cabinet and lay it down carefully.
4. Detach the pump hose from the quick coupler and hang it up properly.
5. Pick up the tank with a pallet fork or pallet truck and transport it to a central water tap. Caution! Pay attention to the centre of gravity of the system, secure additionally if required.
6. Set the system down. Caution! The ground must be approved for the total weight.
7. Open the screw cap at the tank inlet.
8. Fill the tank with water.
9. If additives are added, make sure that no other additives have been used. Rinse the tank if necessary. Ensure the correct mixing ratio specified by the manufacturer. Use personal protective equipment (occupational safety!). It is essential to position the safety data sheet of the additive stating the mixing ratio freely accessible on the system / tank (danger to life).



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