



**Please read these instructions carefully and keep them in a safe place**

### Applications

The equipment can be used to spray the recognized pesticides, weed-killers and liquid fertilizers, as used in the home, in the garden, on the farm, or in vineyards.

### Technical data

Permissible operating pressure	6 bar max.
Permissible operating temperature	30 deg.C (86 deg.F)
Tank volume	10 / 15 / 20 litres
Weight	4.8 / 5.2 / 5.5 kg
Spraying-rate	up to 2.2 litres/min

### Safety instructions



Make sure that the liquid you wish to spray is suitable for this equipment. The safety and handling instructions provided by the chemical manufacturer must be noted and observed. The use of chemicals is entirely at the user's own risk. Should you have any doubts in this respect please contact the customer service.

The sprayer must not be filled with caustic substances (e.g. disinfectants and impregnating liquids which attack the skin or materials), corrosive substances (acids) or highly inflammable or combustible substances.

The sprayer must not be filled with liquids at a temperature greater than 30 deg.C.

The effects of frost can damage the equipment.

When spraying avoid contact with the liquid being sprayed. Wear protective clothing, mask, and goggles and protect your hands. Do not spray against the wind, nor when the wind is strong. Do not discharge any more liquid than is needed for the area to be treated.

Do not attempt to clear a blocked nozzle or valve by blowing through using the mouth (danger of poisoning).

The appliance must be cleaned after use. When cleaning take care that water-courses are not contaminated.

Do not drain off chemicals into other containers (bottles, cans, etc). Store equipment and chemicals in a safe place, away from children and domestic animals.

### Preparing the equipment for use

Screw the pump lever into the pump shaft.

Fit the hose. Check for correct operation and that there are no leaks.

When the appliance has been out of use for a long period, tighten up the lubricating piston (S) in the lowest piston position (lever points upwards) a little.

### Operation

#### - Filling the tank:

Do not fill up to the level of the filling strainer, but keep to the maximum permissible contents: Flox 10 litres; Iris 15 litres; Senior 20 litres.

#### - Spraying:

Operate the pistol valve (20) and generate pressure by means of a few strokes on the pump lever. Maintain the pressure by operating the pump lever periodically.

The nozzle fitted in the standard version is suitable for fungicides and insecticides. Other nozzles are available for different applications.

#### - Removing and fitting the pump:

Loosen the nut between pump and tank.

Tilt the pump casing towards the rear and pull it up and out.

When the piston (14) is exposed, the rubber piston-ring (15) can be re-tightened or replaced at the butterfly-nut. Do not over-tighten the rubber ring. If the piston is properly greased, it should be possible to introduce it into the valve housing (13) without using force.

When fitting the pump, check the gasket (7) in the suction pipe and if necessary replace it. The valve (11) is accessible by unscrewing the air-reservoir.

### **Care and maintenance**

After use the appliance must be emptied; never store the spray-liquid in the sprayer.

Unscrew the pump and empty the tank.

The appliance must be washed out using a suitable agent and then rinsed with clean water; do not use hot water (max. 30 deg.C).

Move the pump-piston (14) to the lower position (handle points upward) and apply the lubricating piston (S) gently. Then give the pump a few strokes, so that the piston is prevented from sticking.

Particular attention must be paid to parts which are subject to wear, such as the nozzle, filter and gaskets. The filter (22) and nozzle (29) should be cleaned periodically. These parts are easily replaceable.

Do not clean the nozzle with hard objects, nor blow through it using the mouth. The most suitable cleaning device is a nail-brush or tooth-brush. To dry the appliance, leave it standing.

### **Rectifying faults**

#### **a) The pump does not create suction:**

- If the nut between pump and tank is not tight - tighten it
- Gasket (7) defective - replace
- Valve (11) sticking - free it by turning at the valve seat

#### **b) The liquid drips out at the pump casing:**

- Retighten the piston (14), see Section "Removing and fitting the pump"

#### **c) The pump jams:**

- Grease the piston (14), by turning the lubricating piston (S)
- If that does not cure the problem, dismantle the pump, and clean and grease the piston

#### **d) No discharge from the nozzle:**

- Filter (22) blocked - clean the filter

### **Spare parts and repairs**

If any part shows signs of damage or wear, replace it immediately. Use only BIRCHMEIER original parts (see spare parts list).