



# TX1

## MINI-CHIEMSEE BASICS





# 1X1

MINI-CHIEMSEE BASICS

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### TRANSPORT

The pump can be easily carried in pairs using the bar handles on the carrying frame.

It is also possible, if necessary, to carry the pump with just one hand, using the middle carry handle.

The power cable can be wrapped around the pump, due to the inward bar handles. Likewise, the intake nozzle is placed in the frame. The whole delivery of the pump is thus stowed away in the carrying frame for simple and easy transportation.



## INTAKE NOZZLE

By mounting the intake nozzle with the opening facing upwards, the intake of pond foils or too large objects (e.g. stones) is prevented. At the same time, the pump therefore does not „eat“ and burrow into the ground. In addition, the intake nozzle serves as contact protection from the impeller.

If the water is pumped with the intake nozzle until the pump sucks in air, a sufficiently high water level of 15 cm (= rubber boot level) is automatically available for low-level pumping.



## ABSEILING EYELET

Easy lowering into shafts is possible using the abseiling eyelet on the middle carry handle of the pump. The dimensions of the pump guarantee straightforward insertion into manholes with a manhole cover diameter of 600 mm.



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## **OPTIMUM PUMPING PERFORMANCE**

When using a normal fire hose, performance-hindering kinks quickly form in the pressure pipe. To achieve optimum pumping performance, a dimensionally stable PVC spiral hose (accessory) should be used for the first 3 to 5 m.

Alternatively, a 90° pressure arc can also be used, in order to prevent a kink directly on the pressure side of the pump.

## **LATERAL POSITION**

If there is no available dimensionally stable hose for the pressure side of the pump, the pump can also be positioned laterally to avoid kinks at the pressure outlet.



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## **TURN THE PHASE**

(only with rotary current pumps)

If the phase control lamp on the motor protection plug lights up, the correct phase sequence can be set using a screwdriver. In the event of clogging, the pump can be briefly set to reverse with the manual phase inverter in order to remove the cause of the blockage.

Normally, the blockage can be removed in brief reverse operation without opening the pump.



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## **LOW-LEVEL PUMPING**

After pumping the water with the intake nozzle with the opening facing upwards to the rubber boot level (around 15 cm), the intake nozzle is mounted with the opening facing downwards in order to reduce the water level to a few millimetres depth.

Ideally, the pump is placed at the lowest point in the cellar (gully) during low level pumping, so that as much water as possible can flow with a slight incline.

## LOW WATER LEVEL (<10 CM)

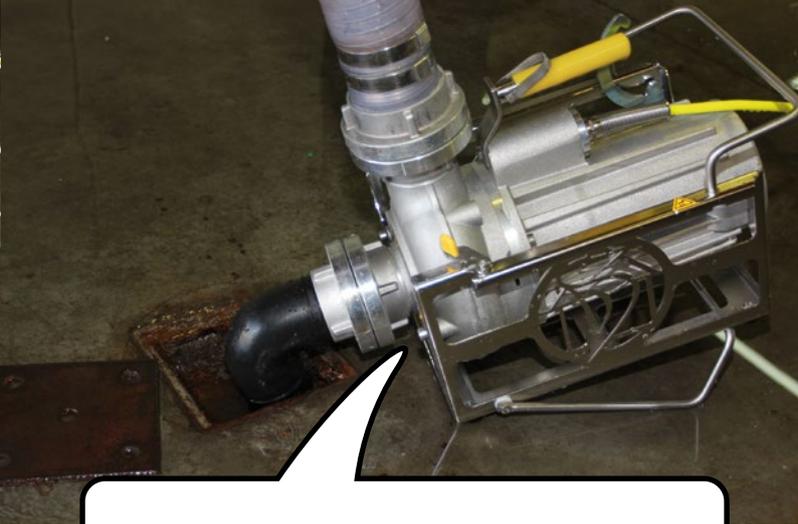
The Mini-CHIEMSEE is not self-priming. To bring it into operation, the spiral housing must be filled with water. If the water level is too low, the pump can be started using the flat intake nozzle with integrated non-return flap (optional accessory). To do this, the flat intake nozzle with non-return flap is mounted on the suction side and water poured in the pump. The non-return flap keeps the water in the spiral housing. Then couple the hose, switch on the pump and pumping operation starts.

Alternatively, also a normal latex glove can be pulled over the standard flat intake nozzle of the pump. The latex glove also keeps the water in the spiral housing and serves as a flap valve. Then couple the hose and switch on the pump, the glove tears and pumping operation starts.

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## DEEP PUMPING

Instead of low-level pumping, deep pumping can also be carried out in a depression (e.g. gully), to pump the water as fully as possible out of the cellar. To do this, remove the intake nozzle, open the locks of the folding bar of the carrying frame and rotate the folding bar under the carrying frame. Afterwards reattach the intake nozzle with the opening facing downwards and place the pump at the depression so that the intake nozzle extends into the depression.



## SUCTION OPERATION

To set the MINI-CHIEMSEE to suction mode, the use of a non-return flap and a dimensionally stable suction hose is required (both available as accessories). Suction mode is possible without any problems to a suction height of about 5-6 m.

Mount the suction hose to the suction side of the pump and couple the other end to the non-return flap. Secure the non-return flap with a rope before draining the fluid. Then fill the whole system with water until the spiral housing of the pump is full of water.

The pump is now ready for suction operation. Transparent suction hoses are recommended for suction operation, as any air pockets forming there can be identified and removed. If the pump takes in air, the system normally has to be refilled.



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## **SERIES CONNECTION**

If pumping heights of over 10 m are to be achieved, MINI-CHIEMSEE pumps can be connected in series to achieve a doubling in the pumping height. To do this, simply connect the pressure side of the first pump with the suction side of the more highly positioned second pump using a dimensionally stable hose.

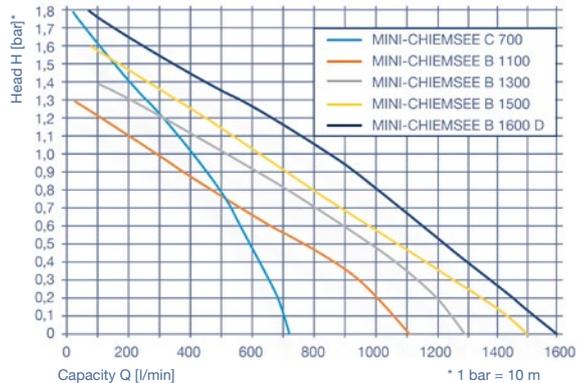
The pumping height can be further increased using a third or fourth pump.



## MINI-CHIEMSEE



### CAPACITY HEAD TABLE



## ACCESSORIES

### Non-return flap

with B- or C-Storz coupling for suction operation up to 5 m height

### PVC spiral hoses

dimensionally stable, with B- or C-Storz couplings

### Accessory pack

consisting of non-return flap, 5 m PVC spiral hose for pressure side, 5 m transparent PVC spiral hose for suction side

### Flat intake nozzle

with integrated non-return flap for low level pumping in case of low water level

### Portable Residual Current Devices

230/400 V, residual current 30 mA, pluggable or installed in the power cable





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