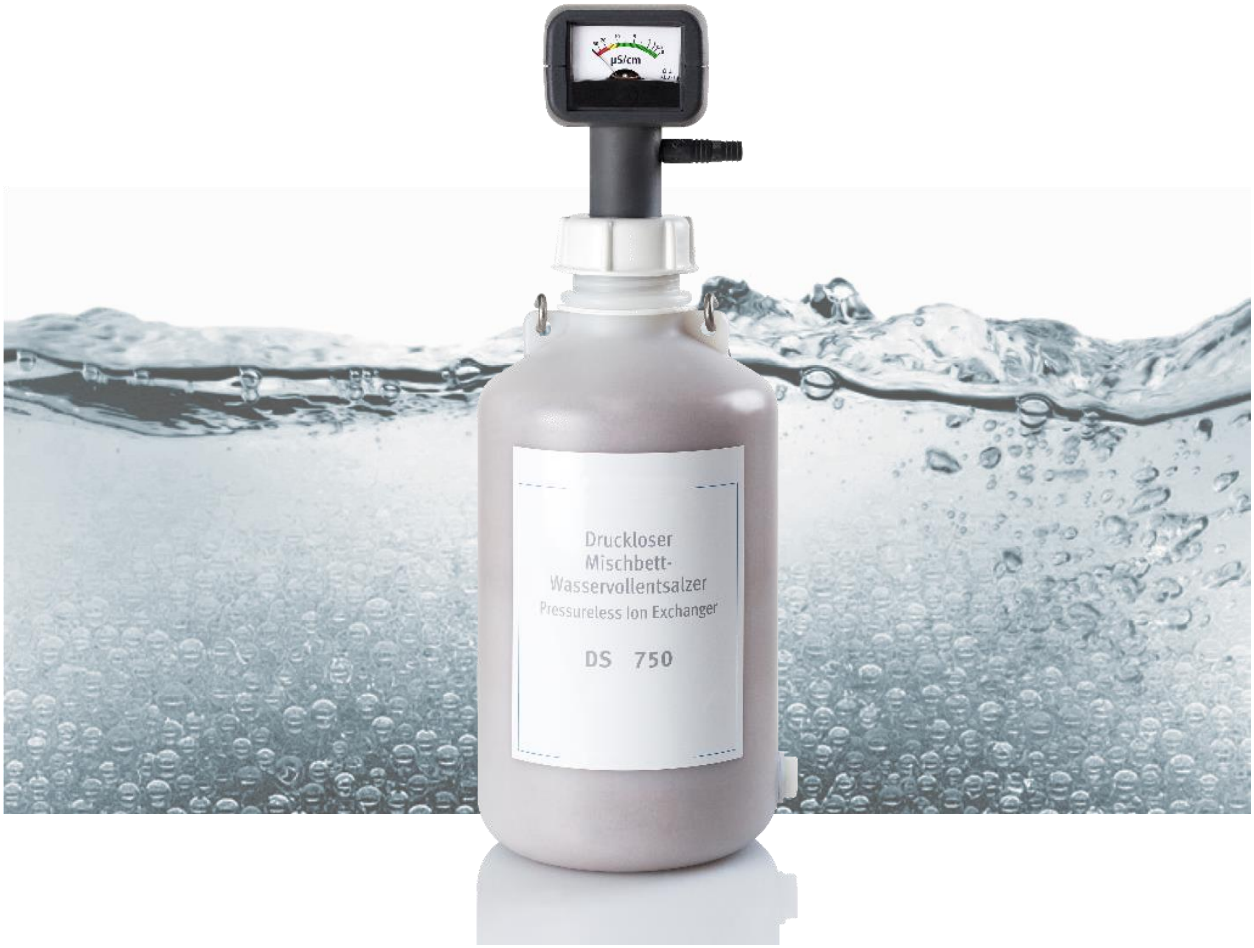
Operating instructions

DS 750 Mixed Bed Demineralizer



Read this user manual carefully before installing and starting up the system!

BOECO
Germany

Contents

1. Safety instructions

- Read these notes and precautions for your own well-being and proper functioning of the cartridge!
- The produced deionized water is a technical water, which isn't drinkable.
- Use only the original raw water hose, as the flow restrictor integrated in it prevents damage to the cartridge.
- **Never** insert a shut-off device in the cartridge outlet nor kink the outlet hose, as the plastic cartridge could burst under the resulting pressure build up. Ensure free water flow at all times.
- The use of this system in any other way than that described in these operating instructions invalidates the guarantee.
- An earthing contact socket outlet is required for the electrical connection.
- Under some circumstances, improper handling could result in the leakage of ion exchange resin from an ion exchange cartridge. **CAUTION: Danger of slipping** on leaked out resin! As the resin material can cause slight irritation on contact with skin and/or eyes, immediately turn off the raw water tap to stop further leakage and **proceed as follows**: on skin contact, immediately wash contacted skin areas with plenty of water. On contact with eyes, remove contact lenses if this is possible without difficulty, then immediately and carefully wash eyes with plenty of water for about 10 minutes. When irritation still occurs, seek medical advice immediately.
- Wear protective gloves to collect up the leaked out resin, fill it into a clearly labelled plastic container and return it to the authorized specialist supplier for waste disposal.

2. Technical data

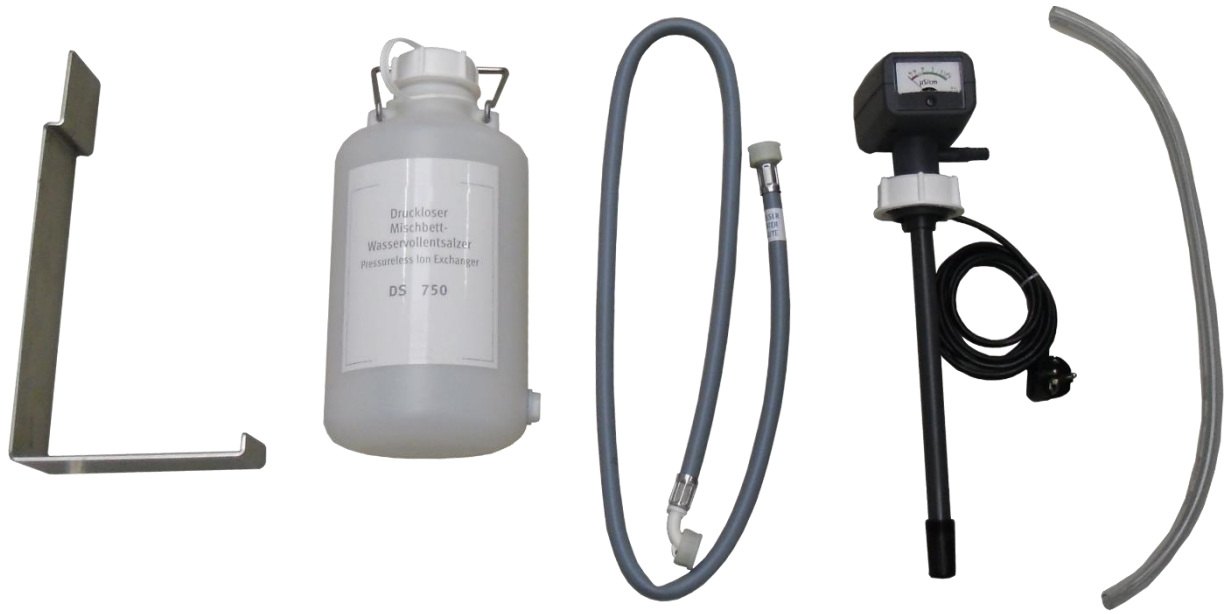
Article number:	11170506	11170600
Max. flow rate:	100 l/h	100 l/h
Capacity at 10°GSG*:	750 l	750 l
Pure water quality:	0,1 – 20 µS/cm	0,1 – 20 µS/cm
Max. water temperature:	30° C	30° C
Electric connection:	230V/50-60 Hz, 10 VA	115V/50-60 Hz, 10 VA
Height x diameter**:	475 x 160 mm	475 x 160 mm
Depth:	195 mm	195 mm
Weight:	4 kg	4 kg

* total dissolved solids /10°dH GSG=12.5° e
** with conductivity meter

Replacement cartridge, art. no.:	11175000
Height x diameter:	360 x 160 mm

3. Scope of delivery

Prior to starting installation, check the completeness of delivery of the system against this parts list.



① ② ③ ④ ⑤

Pos.	Description	Art. No.	Pos.	Description	Art. No.
①	Wall holder (optional)	13140400	④	Conductivity meter AC100 analogue for DS 750, 230V	14163004
②	Pressureless plastics cartridge	11175000	⑤	Pure water hose	28000001
③	Raw water hose incl. flow restrictor	28000019			

4. Mounting instructions

1. Take the cartridge out of its packaging and unscrew the protection cap on top.

   Caution: Also take the separately packed conductivity meter out of its packaging and check the seal at the screw on nut is in place.

2. **Fill the cartridge with tap water up to close underneath the top**. This allows an easier inserting of the pure water lance.

3. Put the conductivity meter with the lance into upper hole of the cartridge. Push it **carefully and straight** into the resin bed, while **slightly turning it for easier sliding in,** as far as the screw on nut of the conductivity meter can be turned onto the winding easily and fix.

4. The screw on nut has to be fixed hand tight only. Make sure to have a free view onto the indicator of the conductivity meter.

5. If the optional wall holder was ordered, fix it at the wall, close to the water supply by using the delivered anchors and screws. Make sure to have enough working space around the system.

   Caution: Before fixing the wall holder, please make sure not to have electrical or sanitary lines close to the drilling points.

6. After fixing the wall holder place the cartridge incl. mounted conductivity meter on it. Secure the cartridge by flipping back its metal holder behind the shackle of the wall holder.

7. Lead and connect the raw water hose without bendings or kinks to the water supply as well as to the ¾" connection of the cartridge.

   Caution: The straight connector of the hose contains the integrated flow restrictor. It´s marked with „raw water" and has to be connected to the water supply, while the 90° connector is thought to be connected to the cartridge.

8. Connect the pure water hose to the hose connector of the conductivity meter.

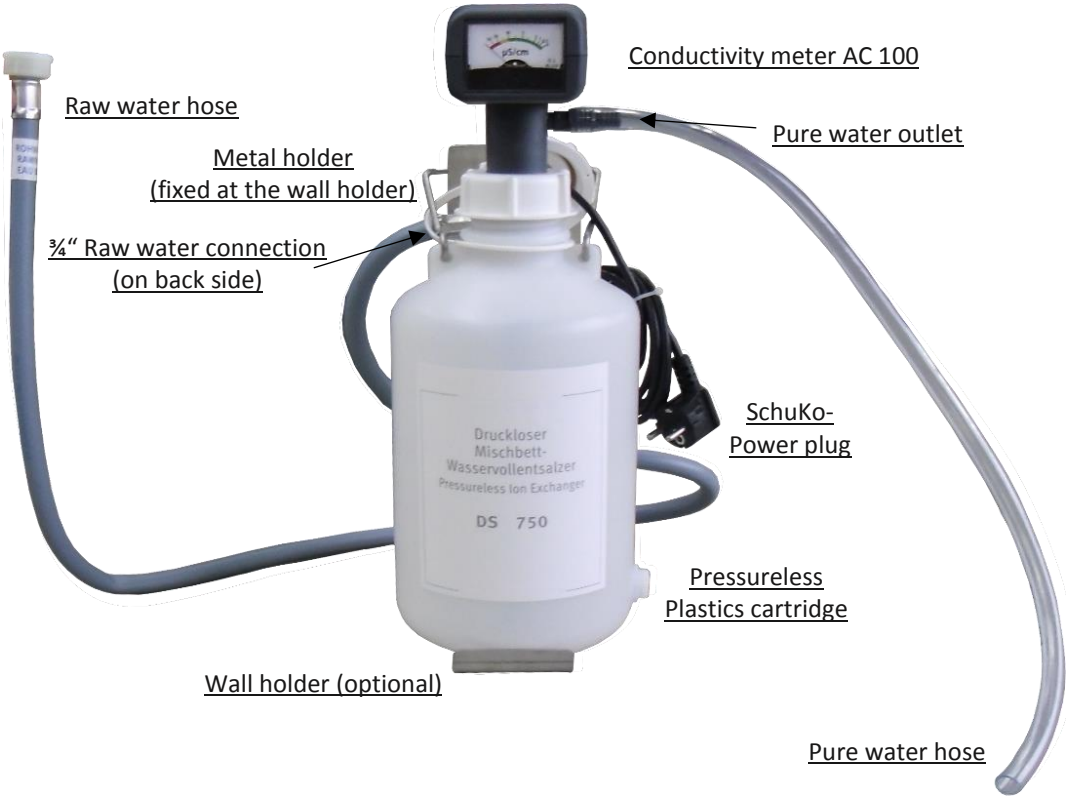
   Caution: The pure water hose must not be bend or shut off. Otherwise the cartridge might burst due to growing pressure inside of the system.

9. Connect the wall plug to a power socket with earthing contact: 230V, 50/60 Hz.

10. Carefully open the water supply and look for leakages. In case of leaks at the fixing nut or the hose connectors, close the water supply and further tighten the connection by hand until no water runs out anymore.

11. Now demineralized water might be drawn from the system. Please take care to have the conductivity meters needle within the green area or at max. 20µS/cm.

System – ready mounted:



5. Cartridge replacement

1. Close the water supply and unplug the system from power supply. If applicable, remove the system from the wall holder and carefully unscrew the raw water hose connection from the cartridge.

   Caution: When disconnecting the hose connection water might run out. Make sure not to damage other devices around.

2. Unscrew the conductivity meter from the exhausted cartridge and remove it by pulling it out of the resin.

3. Perform as described under point 2 & 3 of the mounting instructions (Chapter 4).

4. Fix the screw on nut hand tight and make sure to have a free view onto the indicator of the conductivity meter.

5. Fix the 90° connector also hand tight at the new cartridge and reconnect the power plug to its wall socket. After venting the unit is back in good working order.

   Please pay attention: If no water is drawn from the unit, reionization effects will cause the indicators needle to reach the red area. Only when water flows across the measuring cell of the conductivity meter, values get applicable and water could be used for applications.

6. ECC – Declaration of conformity

Designation: Mix-bed ion exchanger
Type: Stakpure DS 750
Article No.: 11170500

Applicable EEC directives:
EEC- Directive low voltage
EEC- Directive electromagnetic compatibility
EMV 2004/108/EG

Applied standard(s):
55011 und 61000

Niederahr, June 2014

Manufacturer / CE-Representative: Leo Trumm

7. Note on waste disposal of equipment

According to your state government requirements and the 2002/96 EC and 2006/66/EC directives, equipment that is to be scrapped can be brought to authorized collection points for recycling. Alternatively, it can be returned to us for proper recycling/waste disposal.
In case of return for repair, incorrect delivery or double delivery, please use the original cardboard box/packaging whenever possible. Send fall and knock protected.

Boeckel + Co (GmbH + Co)
Postfach 11 22 26
20422 Hamburg
Deutschland
Telefon: +49 (0)40 325627-0
Telefax: +49 (0)40 325627-41
info@boeco.com
www.boeco.com