

GiO-MODUL

Integrated reverse osmose

Original operating instructions



EN



Read operating instructions before using the machine!

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1 Introduction and general information

These operating instructions for the integrated reverse osmosis (gio-module) are a supplement to your dishwasher's operating instructions. Only work with the dishwasher if you have read and understood these supplementary operating instructions. Please also read and observe the operating and safety instructions for the dishwasher.

Temporary decommissioning:

In case of downtimes on MEIKO products with integrated reverse osmosis systems that are taken out of operation for more than 6 months, we recommend commissioning the system with disinfection for GiO MODULES.

2 GiO Module Variants



GiO-Modul „base“



GiO module „rear wall“



GiO module "separately added"

3 Connection / Installation

3.1 Building requirements

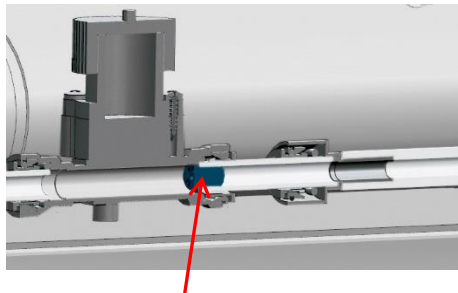
- Conductivity max. 1000µS/cm
- Water hardness max. 28 °dH
- Inlet temperature min. 1 °C - max. 35°C (cold water connection)
- Free of particles > 10 µm
- Iron < 0.1 mg/l
- Manganese < 0,04 mg/l
- Chlorine (free chlorine) < 0.1 mg/l (standard diaphragm)
- Chlorine (free chlorine) ≥ 0.1 to ≤ 2.0 mg/l (chlorine resistant diaphragm)
- Potassium permanganate < 10 mg/l
- Silicic acid < 10 mg/l
- When using GiO modules, mains isolation in accordance with EN1717 is to be assured



NOTE

Please note:

As of a water hardness of 18°dH, please use the enclosed blue throttle (9715289).



Throttle (9715289)

9743334

Please note:

- Check the on-site drain piping and clean if necessary
- Flush the diaphragm set for 5 minutes
- Perform measurements and document in the commissioning protocol



NOTE

Please note:

If chlorine levels (free chlorine) are between ≥ 0.1 and ≤ 2.0 , we stipulate that a chlorine resistant diaphragm must be used.



NOTE

When replacing the standard diaphragm, 9703526 or 9651200-60, for the new chlorine resistant diaphragm, 9721935, the filter casing and filter insert must also be replaced.

- Filter casing length 9 $\frac{3}{4}$ " (item no.: **9701567**)
- Filter insert length 9 $\frac{3}{4}$ " (item no.: **9702213**)

3.2 GiO with AirConcept

Please note:

If a reverse osmosis system is used with/retrofitted on machines equipped with the AirConcept exhaust air heat recovery system, the stainless steel heat exchanger available as an option must be used.

3.3 Installation

Caution: All lines must be installed properly!

Before the GiO module in the raw water line:

Install the connection set. (Caution: Keep a minimum distance of 100 mm to the underside of the pedestal! Observe accessibility to the pressure reducer/adjusting screw.)

The assembly of the components of the pre-installed connection set must not be changed



With a standard diaphragm

The 10 µm filter insert (item no.: 9695683) must be replaced every 6 months!

7" (filter casing length = 178 mm)



With a chlorine resistant diaphragm

The 10 µm filter insert (item no.: 9702213) must be replaced every 3 months!

9 ¾" (filter casing length = 248 mm)

Wording of labels for changing the filter insert in the GiO pre-filtering set

Procedure:

- Remove the old label (if it exists)
- Change the filter insert
- Apply the new label to the housing so that it is clearly visible



E.g.: 6 months

- "Show" the next date to change the filter in advance, 6 months beforehand with a standard diaphragm, 3 months beforehand with a chlorine resistant diaphragm.

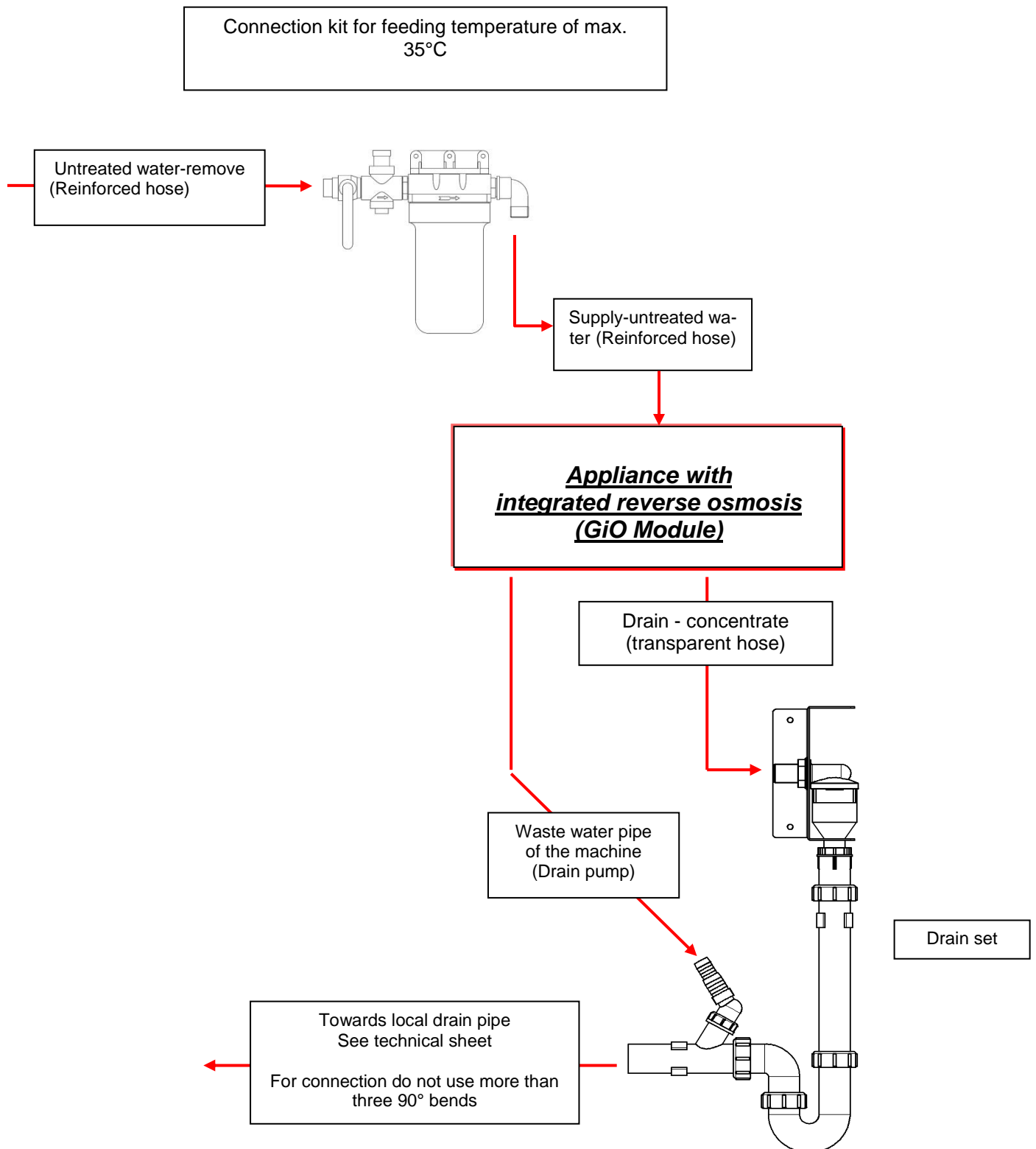
- Use a permanent marker or similar for this

Month: July (mark 7)
Year: 2014 (mark 14)

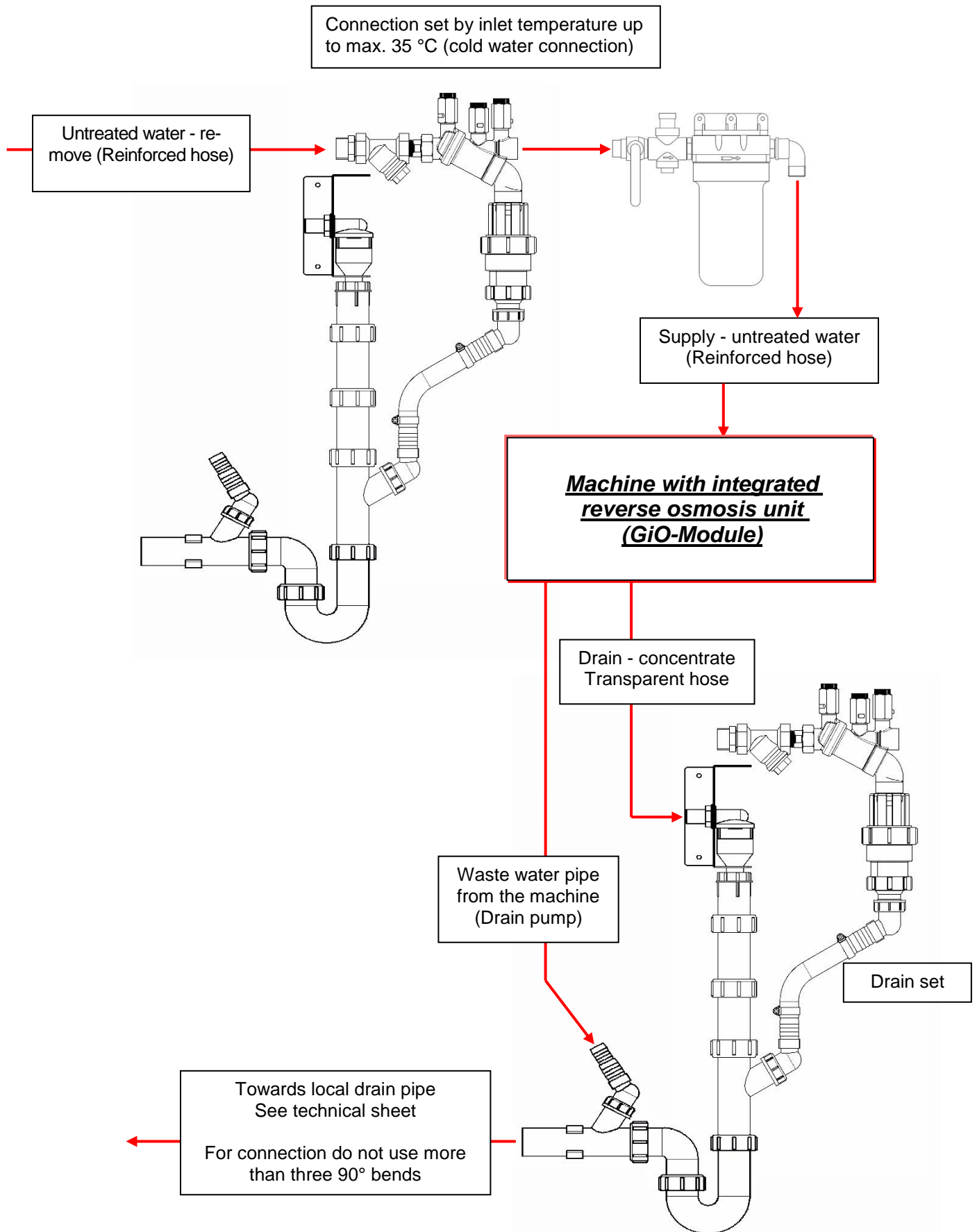
After the GiO module

Drain set/ Install free outlet for concentrate line

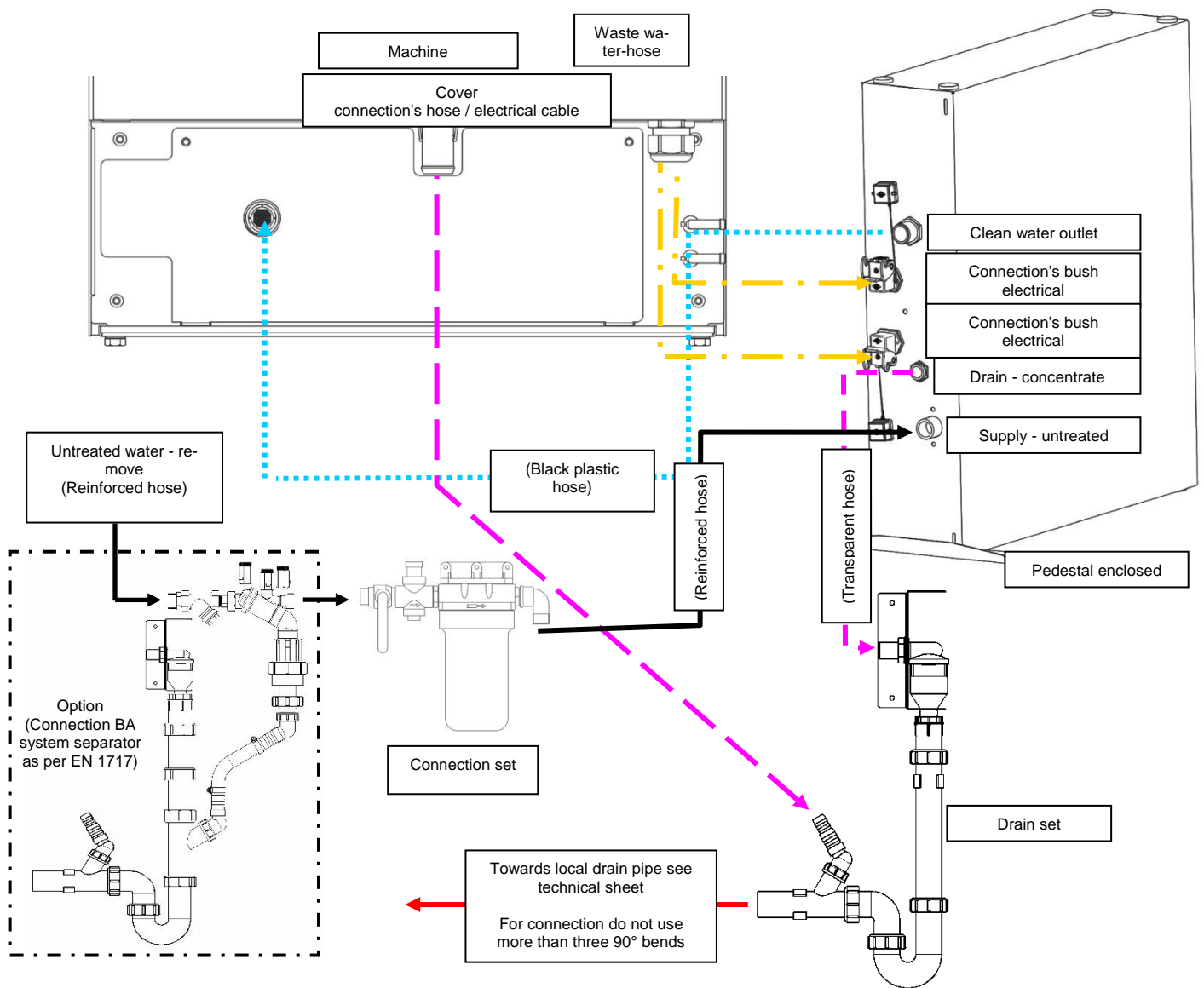
3.4 Circuit function diagram



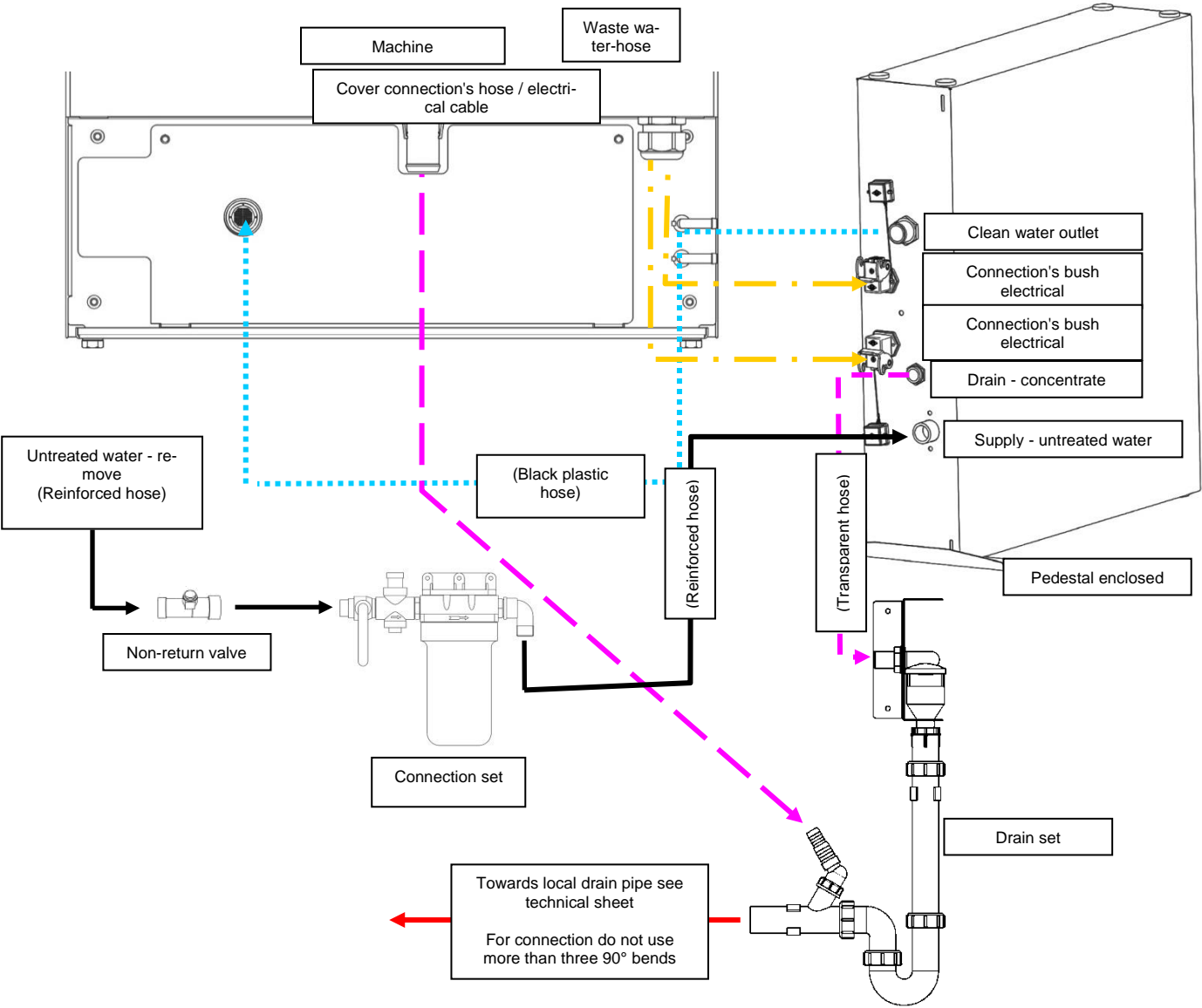
3.4.1 Circuit function diagram option (connection BA system separator as per EN 1717)



3.6 Connection's plan - GiO Module



3.6.1 Connection plan - GiO module for the UK



- The free outlet to connect the concentrate line must be installed as high as possible. (with undertable machines = upper edge of machine).
- The basin should possibly be connected via a separate siphon, after the drain set.
- The drain set must not be shortened nor may its assembly be changed.



The free outlet for the concentrate line must always be connect. This is the only way to ensure that the drain line is safely separated from the osmosis module.
The scope of delivery includes a black plastic hose.

Always open the water inlet before you switch on the machine!
Ensure that the filter is filled with water!!!
The dishwasher may only be switched on if this is the case.

4 Troubleshooting / Maintenance

The machine control merely monitors that the GiO module produces enough clean water. Any malfunction of the module is thus displayed as lack of water on the display (ERR 201 / ERR 202).

Malfunction:	Remedial action
<u>ERR 201 / ERR 202</u>	<ul style="list-style-type: none"> • No water available (check whether water inlet is open) • Check filter insert for contamination. Replace if necessary • Check functioning of booster pump (sound check) • Check GiO module, replace membrane if necessary



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Design and construction subject to change without prior notice!

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