







BWT bestaqua 60 - 62
Reverse Osmosis Plant

For You and Planet Blue.

Thank you very much for the confidence you have shown in us by purchasing a BWT appliance. Follow the described steps for commissioning of the BWT bestaqua 60-62 reverse osmosis unit.

1 Safety instructions

-  Danger caused by electric current or voltage! Always consult a qualified electrician when working in places denoted by this symbol.
-  Use only trained or instructed staff. Stipulate clear staff responsibilities for operation, set-up, maintenance and repair work.
-  NEVER operate the device with the cover removed.
-  Floor drain must be available in the immediate vicinity of the RO unit.

2 Water quality

The feed water, which is to be treated in the BWT bestaqua 60-62 unit, must be drinking water quality with maximum 500 mg/l TDS. Feed water temperature is Min/Max: 5°C /25 °C. Feed water pressure 3-6 bar.

The feed water may maximum contain:		
Fe : 0.05 mg/l	Cl ₂ : 0.1 mg/l	SDI ₁₅ : 3.0
Mn: 0.02 mg/l	Turbidity: 1.0 NTU	KMnO ₄ : 10 mg/l

3 Water connections

1. Examine Figure 1 and locate water connection fittings on your BWT bestaqua 60
2. Assemble Part 1 (check valve) on main water pipe
3. Assemble then Parts 2-8 together as shown on Figure 2. Use fiber gaskets when assembling pressure hoses on pre-filter housing
4. Attach Part 7 (pressure hose) to **Water inlet 3/4"** on BWT bestaqua 60
5. Attach Part 8 (plastic hose) to **Concentrate drain Ø12** on BWT bestaqua 60 and the other hose end to the drain with 20 cm air gap. Note! The hose may never be bent!
6. Attach hose from water consumer (eg. dishwasher) to **Permeate outlet 3/4"** on BWT bestaqua 60
7. Check that **V01:Manual bypass valve** (on top of Multiblock) is closed
8. Open main water valve and check for leaks

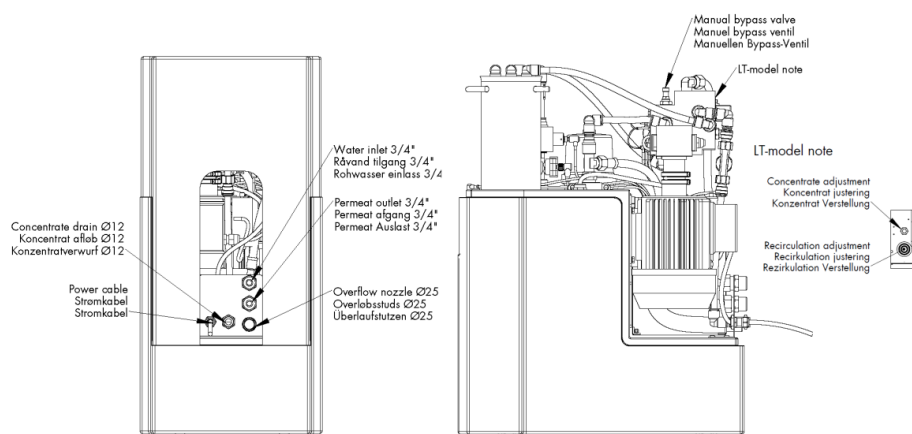



Figure 1: Water connection fittings and valves on BWT bestaqua 60-62



656525125 Installation kit (optional) for BWT bestaqua 60-62			
Pos.	Part no.	Description	Pcs
1	201000700	Checkvalve 1/2"	1
2	656513005	Fiber gasket 1"	1
3	016207143	Nipple M 1" X 3/4"	1
4	656513030	Hose 3/4" 1500mm	1
5	321400017	5a - Filter housing complete 5b - Bag with screws 5c - Filter housing bracket 5d - Filter housing spanner	1 1 1 1
6	321413070	Filter cartridge 7" 5µm	1
7	656513035	Hose 3/4" 1500mm	1
8	454001032	Plastic hose 12mm, 3m	1

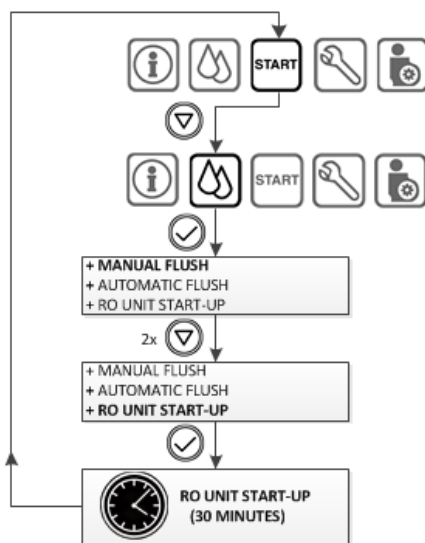
Figure 2: Installation kit

4 Electrical connection and commissioning

1. Connect power cable and push power button  on LCD panel. BWT bestaqua 60 will automatically run sensor control test and then you will see the operational menu



2. Follow steps below to initiate rinse of membranes with feed water (Note: if BWT bestaqua 60/61/62 **HQ** models running with soft water - jump to chapter 5.)



Note! If tank is full then membrane rinse procedure will stop and go in Service.

Note! Only for BWT bestaqua 60 **LT**: Open concentrate valve completely and close recirculation valve (Figure 1). Run "RO UNIT START-UP". After 30 minutes' rinse the RO unit will automatically start to produce permeate if there is consumption. But the technician has to adjust flowrate on concentrate- and recirculation valves (Figure 1) according to the specific RO unit model. Use flowmeter from 451409006 "RO commissioning box" to adjust flowrates.

Note! Only for BWT bestaqua 60 **HQ**: After 30 minutes' rinse the RO unit will automatically start to produce permeate if there is consumption. Only flow of permeate (Figure 1, recirculation valve) has to be adjusted according to the specific RO unit model.

Operation pressure 12.5-14.5 bar, maximum pressure 16 bar.

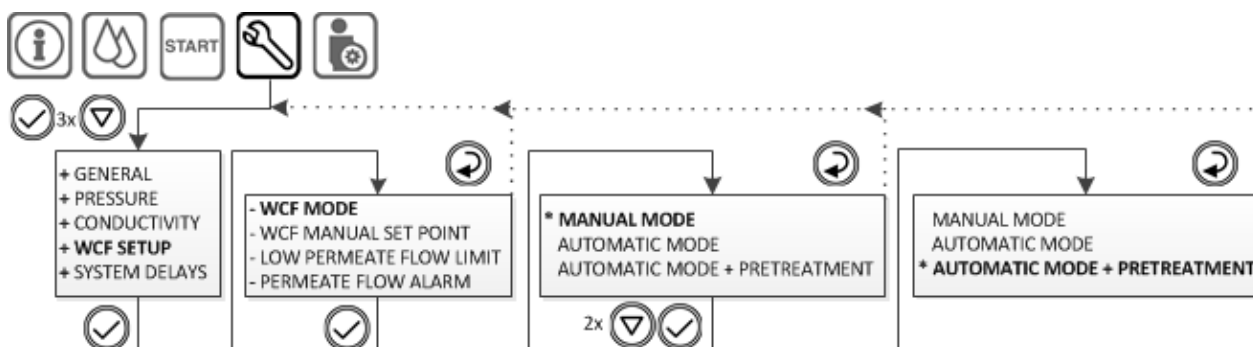
RO-model	Permeat capacity (l/h) at 10 °C	Outlet amount (l/h)	
		Ground water (40% recovery)	With antiscaling (75% recovery)
60	160	240	53
61	250	375	83
62	400	600	133

Table 1: WCF at 10°C

3. When the reservoir is full let the transport pump operate with a large flow for 2 min. in order to deaerate it.
4. Fill the "Start-up test" scheme (enclosed with Installation and operation manual).
5. Continuously keep the "Operation Journal" (enclosed with Installation and operation manual) up to date according to specified intervals.

5 Running BWT bestaqua 60 / 61 / 62 HQ with soft water (0 °dH)

BWT bestaqua 60 / 61 / 62 **HQ** models needs to be set up when using with soft water (from Softening unit or Antiscaling unit). Follow steps below to activate "AUTOMATIC MODE + PRETREATMENT". After this set-up continue commissioning in chapter 4.



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