

Technical Manual
WATER FILTER - Fe, Mn, H₂S



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WARNING & SAFETY INSTRUCTIONS

- Before you begin the installation of the water filter, we advise you read and carefully follow the instructions contained in this manual. It contains important information about safety, installation, use and maintenance of the product. The actual system that you have received, may differ from the pictures/illustrations/descriptions in this Technical Manual.
- Failure to follow the instructions could cause personal injury or damage to the appliance or property. Only when installed, commissioned and serviced correctly, the water filter will offer you many years of trouble-free operation.
- The water filter is intended to 'filter' the water, meaning it will remove specific undesired substances; it will not necessarily remove other contaminants present in the water. The water filter will not purify polluted water or make it safe to drink!
- Installation of the water filter should only be undertaken by a competent person, aware of the local codes in force. All plumbing and electrical connections must be done in accordance with local codes.
- Before setting up the water filter, make sure to check it for any externally visible damage; do not install or use when damaged.
- Use a hand truck to transport the water filter. To prevent accident or injury, do not hoist the water filter over your shoulder. Do not lay the water filter on its side.
- Keep these Instructions in a safe place and ensure that new users are familiar with the content.
- The water filter is designed and manufactured in accordance with current safety requirements and regulations. Incorrect repairs can result in unforeseen danger for the user, for which the manufacturer cannot be held responsible. Therefore repairs should only be undertaken by a competent technician, familiar and trained for this product.
- In respect of the environment, this water filter should be disposed of in accordance with Waste Electrical and Electronic Equipment requirements. Refer to national/local laws and codes for correct recycling of this water filter.

OPERATING CONDITIONS & REQUIREMENTS

• APPLICATION LIMITATIONS:

- **pH:** for Iron removal: 6,8 - 9,0
for Manganese removal: 8,0 - 9,0
for Iron & Manganese removal: 8,0 - 8,5

- **maximum contaminant content:**

Iron (Fe ²⁺)	15 mg/L
Manganese (Mn ²⁺)	2 mg/L
Hydrogen Sulfide (H ₂ S)	5 mg/L

- **organic matter:** max. 4,0 mg/L; higher level may hinder the correct operation of the system.
- **chlorine:** max. 1,0 mg/L
- **iron bacteria:** if iron bacteria are present, frequent service may be necessary, while the life of the system may be limited; by properly controlling the iron bacteria with chlorine or another approved method of bacterial reduction, the system will function properly.

• OPERATING PRESSURE: min. 1,4 / max. 8,3 bar

- this system is configured to perform optimally at an operating pressure of 3 bar ($\pm\frac{1}{2}$ bar); in case of a higher operating pressure the performance may be affected negatively!
- if installed on a well, verify that the well pump is powerful enough to provide sufficient flow rate for the regeneration.
- check water pressure regularly.
- install a pressure reducer ahead of the water filter if necessary.

• OPERATING TEMPERATURE: min. 4 / max. 38 °C

- do not install the water filter in an environment where high ambient temperatures (e.g. unvented boiler house) or freezing temperatures can occur.
- the water filter cannot be exposed to outdoor elements, such as direct sunlight or atmospheric precipitation.
- do not install the water filter too close to a water heater; keep at least 3 m of piping between the outlet of the water filter and the inlet of the water heater; water heaters can sometimes transmit heat back down the cold pipe into the control valve; always install a check valve at the outlet of the water filter.

• ELECTRICAL CONNECTION: 230V-50Hz

- this water filter only works on 24VAC; it is equipped with a 230/24V-50Hz transformer; always use it in combination with the supplied transformer.
- make sure to plug the transformer into a power outlet, which is installed in a dry location, with the proper rating and over-current protection.

INSTALLATION

INLET & OUTLET

- ☑ Check the water pressure at the place of installation of the water filter; it should never exceed 8,3 bar.
- ☑ We strongly recommend the use of flexible hoses to connect the water filter to the water distribution system; use hoses with a large diameter in order to limit the pressure loss.
- ☑ If the water filter is not equipped with the factory bypass (optional), we strongly recommend to install a 3-valve bypass system (not included with this product!) to isolate the water filter from the water distribution system in case of repairs. It allows to turn off the water to the water filter, while maintaining (untreated) water supply to the user.
- ☑ To prevent air from escaping from the compressed air chamber, make sure the inlet line runs vertically upwards into the water filter. If this is not possible, install a check valve in the inlet line.

WITH FACTORY BYPASS (optional)

Picture 1

- ❶ = mains water supply (untreated water)
 - ❷ = inlet of water filter (untreated water)
 - ❸ = outlet of water filter (treated water)
 - ❹ = house/application (treated water)
1. Screw the factory bypass onto the in/out ports on the control valve (❷&❸); make sure to install the gasket seals. Tighten the nuts firmly by hand.
 2. Screw the connection kit with nuts onto the factory bypass (❶&❹); make sure to install the gasket seals. Tighten the nuts firmly by hand.
 3. Connect the mains water supply to the adaptor on the inlet port of the factory bypass (❶).
 4. Connect the house/application to the adaptor on the outlet port of the factory bypass (❹).

WITH 3-VALVE BYPASS SYSTEM (not included)

Picture 2

- ❶ = inlet of water filter (untreated water)
 - ❷ = outlet of water filter (treated water)
1. Install the 3-valve bypass system.
 2. Screw the connection kit with nuts onto the in/out ports on the control valve (❶&❷); make sure to install the gasket seals. Tighten the nuts firmly by hand.
 3. Connect the 3-valve bypass system to the adaptors on the in (❶) and out (❷) port of the control valve.
 4. Connect the mains water supply to the inlet of the 3-valve bypass system.
 5. Connect the house/application to the outlet of the 3-valve bypass system.

DRAIN

- ☑ We recommend the use of a stand pipe with air trap.
- ☑ To prevent backflow from the sewerage system into the water filter, always install and use the included air gap with double hose barb, to connect the drain hose to the sewerage system.
- ☑ Lay-out the drain hose in such a way that pressure loss is minimized; avoid kinks and unnecessary elevations.
- ☑ Make sure that the sewerage system is suitable for the rinse water flow rate of the water filter.

Picture 3

1. Install the air gap to the sewerage system; it fits over a 32 mm pipe or inside a 40 mm pipe adaptor. Ensure a permanent and watertight connection.
2. Connect a 13 mm hose to the drain connection of the control valve (❶); secure it by means of a clamp.
3. Run the drain hose to the air gap and connect it to one of the hose barbs; secure it by means of a clamp. This drain line operates under pressure, so it may be installed higher than the water filter.

ELECTRICAL

Picture 4

1. Plug the transformers output lead into the socket on the control valves power cord; secure it by means of the TwistLock clamp.
2. Plug the transformer into an electrical outlet.

AIR INJECTION SYSTEM

Picture 5

- ☑ Make sure the air injection system is installed in vertical position, with the check valve and air intake filter screen pointing upwards. Rotate it to this position if necessary.

START-UP

PRESSURIZING

1. Make sure the bypass system is in 'bypass' position.
2. Make sure the electronic controller of the water filter is in service mode.
3. Open the mains water supply.
4. Open a cold treated water faucet nearby the water filter and let the water run for a few minutes until all air is purged and all foreign material that may have resulted from the installation is washed out; close the tap.
5. Gently pressurize the water filter, by putting it into service:
 - *factory bypass:*
 1. open the 'outlet' valve;
 2. slowly open the 'inlet' valve.
 - *3-valve bypass:*
 1. close the 'bypass' valve;
 2. open the 'outlet' valve;
 3. slowly open the 'inlet' valve.
6. After 2-3 minutes, open a cold treated water faucet nearby the water filter and let the water run until all air is purged from the installation and the filter media is properly rinsed (it is normal for the rinse water to show some discoloration!); let the water run until the rinse water is clear; close the tap.
7. Check the water filter and all hydraulic connections for leaks.


During the passage through the compressed air chamber, the treated water will get highly oxygenated. As a consequence it may become slightly non-transparent (milky appearance) when it flows from the tap into a glass. This is totally harmless for the quality of the treated water and will disappear rapidly if the water is left standing for a moment!

ELECTRONIC CONTROL PANEL

8. Program the electronic controller.

PERFORM REGENERATION

We strongly recommend to postpone the execution of this 'start-up' regeneration by 24 hours. The filter media needs sufficient time to absorb water and reach its normal service weight. If the regeneration is performed too soon, the filter media may be pushed against the top distributor during the backwash cycle, possibly resulting in loss of filter media or damage to the top distributor.




9. Manually initiate a regeneration, by pressing the **scroll**  button repeatedly until the display shows:

Regen in 10 sec

10. Leave the water filter in this position; the countdown timer will countdown to 0 sec and start a regeneration.

ELECTRONIC CONTROL PANEL

Picture 6

symbol	button	function
	SCROLL	to advance to the next parameter
	UP	to increase the value of the parameter
	DOWN	to decrease the value of the parameter

POWER-UP

After power-up, the power LED will light up and the display will show the installed software version, f.e.:

EZRFTg EZ Rot0.8

After 5 seconds, it will automatically revert back to the service mode.

POWER FAILURE

In the event of a power failure, the program will remain stored in the NOVRAM® during an undefined period, while an incorporated SuperCap (capacitor) will maintain the correct time of day during a period of several hours; consequently, in case of prolonged power failure, the time of day might not be maintained; if this happens, the time of day will be reset to 8:00 when the power supply is re-established, while the indication will *flash*, indicating that the time of day needs to be set.

8:00 4 DAY REM

When the power failure occurs during the execution of an automatic regeneration, the control valve will remain in its last position; when the power supply is re-established, the control valve will return to the service position, stay there for 60 sec. and restart a complete regeneration from the beginning.

TIMER FAILURE

In the event of a timer failure, the display will show the message:

Service Required

If powering off/on the water filter doesn't solve this problem, professional service is required.

SERVICE MODE


In **service mode** the display shows the time of day and the number of days remaining until the next regeneration:

20:51 4 DAY REM

REGENERATION MODE


In **regeneration mode** the display shows the remaining regeneration time and the remaining cycle time:

Rgn:123 CycY:456



*The control valve can be **reset to service mode** at any time by pressing the **scroll**  button, as such manually advancing it through the regeneration cycles.*

MANUAL REGENERATION


It is possible to manually initiate a regeneration.

1. Press the **scroll**  button repeatedly until the display shows:

Regen in 10 sec

- If the control valve is left in this position, the countdown timer will countdown to 0 sec and *start a regeneration.*
 - To cancel this mode, press the **scroll**  button before the countdown timer has reached 0 sec; the control valve will return to the service mode.
2. Press the **scroll**  button again if you want to manually advance the control valve to the next regeneration cycle.


DRIVE MOTOR SPEED

The drive motor of the control valve, that drives the valve body to its different regeneration positions, will start-up at low speed to reduce its noise level. To increase the speed of the drive motor, simply press the **scroll**  button as soon as the drive motor is activated.



ELECTRONIC CONTROL PANEL


PROGRAMMING INSTRUCTIONS - INSTALLER

Before entering the programming mode, make sure that the control valve is in the service mode.

1. Press the **scroll**  button; the display will show:


Language: English

- Press the **up**  or **down**  button to set the language.

2. Press the **scroll**  button again; the display will show:

Set time: 20:51

- Press the **up**  or **down**  button to set the time of day.

3. Press the **scroll**  button again; the display will show:

Interval: 4 Days

- Press the **up**  or **down**  button to set the number of days between regenerations.

The absorption capacity of the O₂ydizer systems mainly depends on the daily water usage and the Iron/Manganese content in the water; many other factors may also have a significant impact on the absorption capacity. Therefore it is recommend to regenerate the system on a regular time basis. In most applications a regeneration every 4 days should be sufficient.

In case of extreme iron/manganese content, it is recommended to lower the regeneration interval to 1 or max. 2 days.

PROGRAMMING INSTRUCTIONS - PARAMETER SET LEVEL

- ☑ *All configuration parameters on this water filter have been pre-programmed in the factory, to offer optimal performance in a wide range of applications and situations. See table at the end of this manual for default factory parameter settings. Nevertheless it may be necessary or desirable to change any of these parameters, to further optimize the water filters performance or to adapt it to the specific requirements of the installation.*
- ☑ *Before entering the programming mode, make sure that the control valve is in the service mode.*

1. Press the **scroll** ⏪ button and hold it for 5 sec until the display shows:

System Check

2. Within 10 sec, press the **up** ⬆ button; the display will show:

Cycle 1: 10 min

- Press the **up** ⬆ or **down** ⬇ button to set *the length of the regeneration cycle*.
- Press the **scroll** ⏪ button again to advance to the next regeneration cycle.

Cycle 1	Backwash
Cycle 2	Air intake
Cycle 3	Purge

3. Press the **scroll** ⏪ button again; the display will show:

Regen @ 0:00

- Press the **up** ⬆ or **down** ⬇ button to set *the time of regeneration*.

4. Press the **scroll** ⏪ button again; the display will show:

Exit

- Press the **up** ⬆ or **down** ⬇ button to save the program into the NOVRAM® and exit the programming level.

MAINTENANCE

ROUTINE CHECKS

Regularly the user should perform a basic check to verify if the water filter is functioning correctly, on the basis of the following control points:

1. Check settings of electronic control panel.
2. Check water composition before/after water filter.
3. Check drain line from control valve; there shouldn't be any water flow (unless water filter is in regeneration).
4. Check water filter and surrounding area; there shouldn't be any water leakages.

BYPASSING THE WATER FILTER

Occasionally it may be necessary to put the unit hydraulically in bypass, i.e. to isolate it from the water distribution system; f.e.:

- in case of an urgent technical problem;
- when it is not necessary to supply treated water to the house/application.

WITH FACTORY BYPASS (optional)

Picture 7.a

SERVICE POSITION

- ❶ = inlet valve to water filter is OPEN
- ❷ = outlet valve from water filter is OPEN

Picture 7.b

BYPASS POSITION

- ❶ = inlet valve to water filter is CLOSED
- ❷ = outlet valve from water filter is CLOSED

Picture 7.c

MAINTENANCE POSITION

- ❶ = inlet valve to water filter is OPEN
- ❷ = outlet valve from water filter is CLOSED

WITH 3-VALVE BYPASS SYSTEM (not included)

Picture 8.a

SERVICE POSITION

- ❶ = bypass valve is CLOSED
- ❷ = inlet valve to water filter is OPEN
- ❸ = outlet valve from water filter is OPEN

Picture 8.b

BYPASS POSITION

- ❶ = bypass valve is OPEN
- ❷ = inlet valve to water filter is CLOSED
- ❸ = outlet valve from water filter is CLOSED

Picture 8.c

MAINTENANCE POSITION

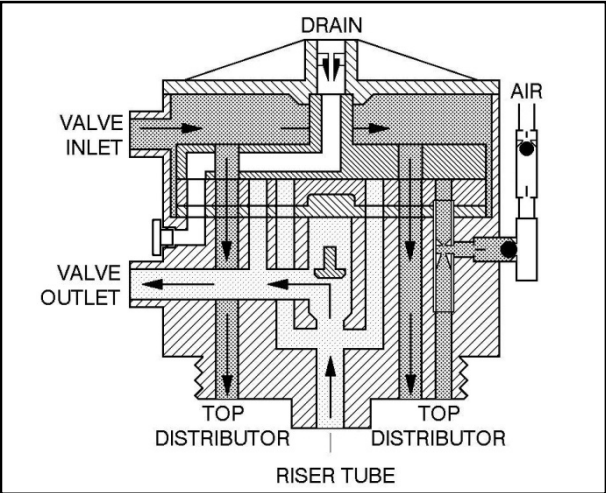
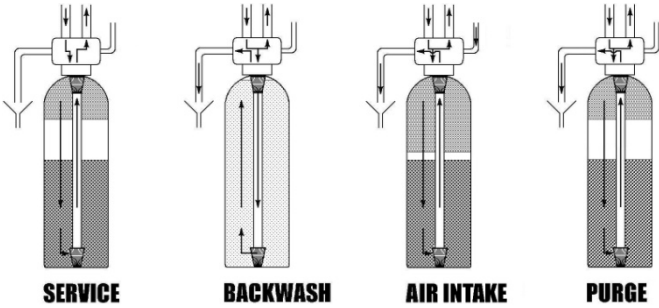
- ❶ = bypass valve is OPEN
- ❷ = inlet valve to water filter is OPEN
- ❸ = outlet valve from water filter is CLOSED

SANITIZING THE WATER FILTER

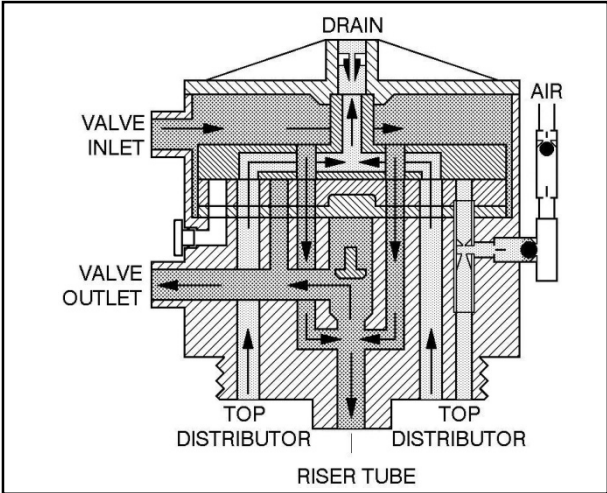
This water filter is manufactured from premium quality material and assembled in safe conditions to assure it is clean and sanitary. If installed and serviced correctly, this water filter will not infect or contaminate your water supply. However, as in any 'device' plumbed-in in your water distribution system, a proliferation of bacteria is possible, especially in case of 'stagnant water'. Therefore this water filter will automatically rinse the filter media periodically.

If the power supply to the water filter is disconnected for a longer period of time, we recommend, when the power supply is re-established, to manually initiate a complete regeneration.

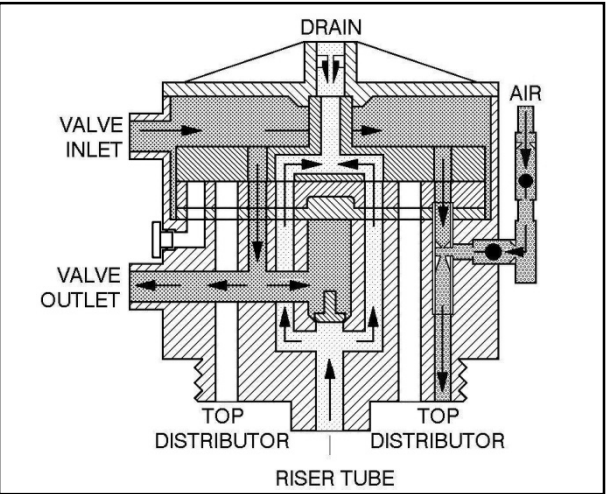
HYDRAULIC FLOW DIAGRAMS - O₂ydizer^{PRO}



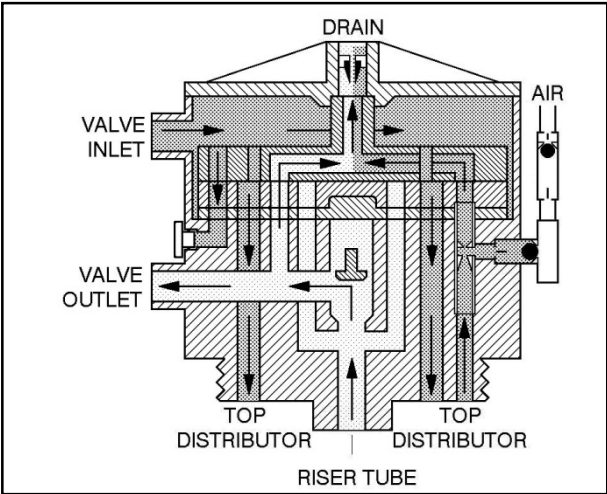
SERVICE



BACKWASH



AIR INTAKE



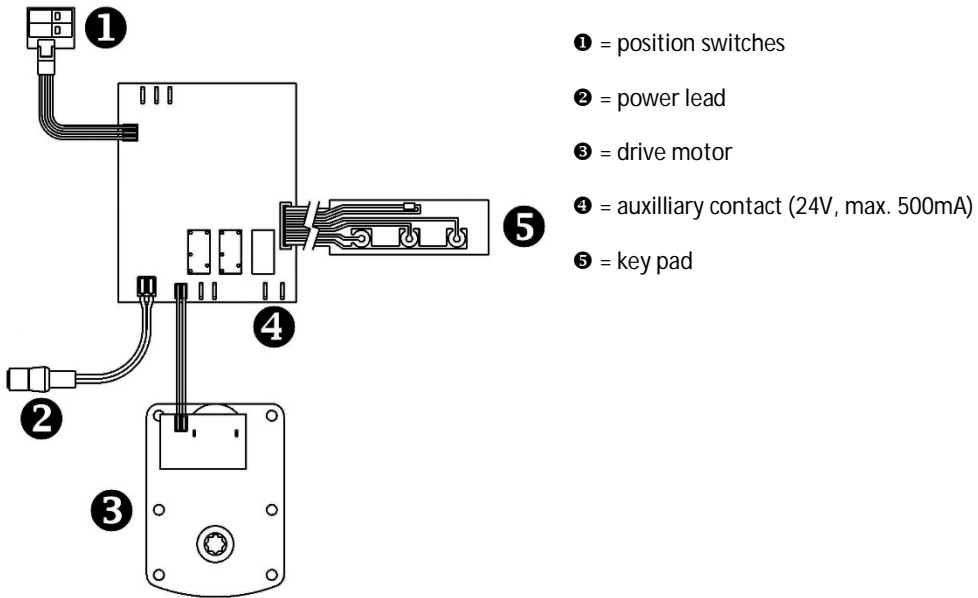
PURGE



TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Untreated water to service	Open or defective bypass	Close or replace bypass
	Water filter in regeneration	Wait until regeneration finishes or manually advance regeneration to end
	Excessive water usage	Initiate regeneration manually
	Change in raw water composition	Verify composition of incoming untreated water and adjust regeneration frequency accordingly
	Water filter fails to start a regeneration	Refer to problem "Water filter fails to start a regeneration"
	Water filter fails to backwash properly	Refer to problem "Water filter fails to backwash properly"
	Valve body and timer out of synchronisation	Synchronise valve body and timer
	Decreasing filter capacity of filter media	Clean or replace filter media
	Loss of filter media	Refer to problem "Loss of filter media"
Leak at riser tube	Verify that riser tube is seated correctly and is not cracked	
Low levels of contaminant in treated water	Bypass not completely closed	Close bypass
	Excessive service flow rate	Lower service flow rate Increase filter capacity by increasing volume of filter media
	Leak between riser tube and control valve body	Verify that riser tube is sealing off correctly inside control valve body
Air from compressed air chamber rapidly escapes to outlet	Leak between riser tube and control valve body	Verify that riser tube is sealing off correctly inside control valve body
	Bypass between inlet and outlet of system	Check position of mixing valve on factory bypass, check bypass valve on 3-valve bypass system
	Valve body and timer out of synchronisation	Synchronise valve body and timer
Treated water is slightly non-transparent and/or effervescent	Passage through compressed air chamber causes water to become highly oxygenated	Totally harmless for quality of the treated water and will disappear rapidly if water is left standing for a moment
Water filter fails to start a regeneration	Faulty electrical supply	Verify electrical service (fuse, transformer,...)
	Defective PCB	Replace PCB
	Defective drive motor	Replace drive motor
	Regeneration frequency not programmed	Program regeneration frequency
Loss of water pressure	Build-up of impurities in pressure tank	Clean filter media and control valve; increase regeneration frequency
	Plugged lower and/or upper distributor	Verify that distributors are free of debris
	Crushed lower and/or upper distributor	Replace distributor(s)
Control valve cycles continuously	Defective drive motor micro switch	Replace drive motor micro switches
	Defective PCB	Replace PCB
Drain line from control valve flows continuously	Water filter in regeneration	Wait until regeneration finishes or manually advance regeneration to end
	Faulty electrical supply	Verify electrical service (fuse, transformer,...)
	Defective drive motor	Replace drive motor
	Defective micro switch	Replace micro switches
	Defective PCB	Replace PCB
	Valve body and timer out of synchronisation	Synchronise valve body and timer
Loss of filter media	Lower and/or upper distributor damaged	Replace distributor(s)
	Leak between riser tube and upper distributor	Verify that riser tube is seated correctly and is not cracked
Water filter fails to backwash properly	Low operating pressure	Check operating pressure; must be higher than 2,0 bar
	Insufficient water supply	Check water supply (flow rate/dynamic pressure)
	Restricted drain line	Verify drain line for kinks or restrictions
	Excessive build-up of impurities in pressure tank	Clean or replace filter media and control valve; increase regeneration frequency
	Plugged backwash flow control	Clean or replace backwash flow control
	Plugged top or bottom distributor	Verify that top and bottom distributor are clean and slots are not clogged by iron or other impurities
	Filter media is completely 'caked' (solid block)	Replace filter media and reduce regeneration interval

ELECTRICAL WIRING DIAGRAM

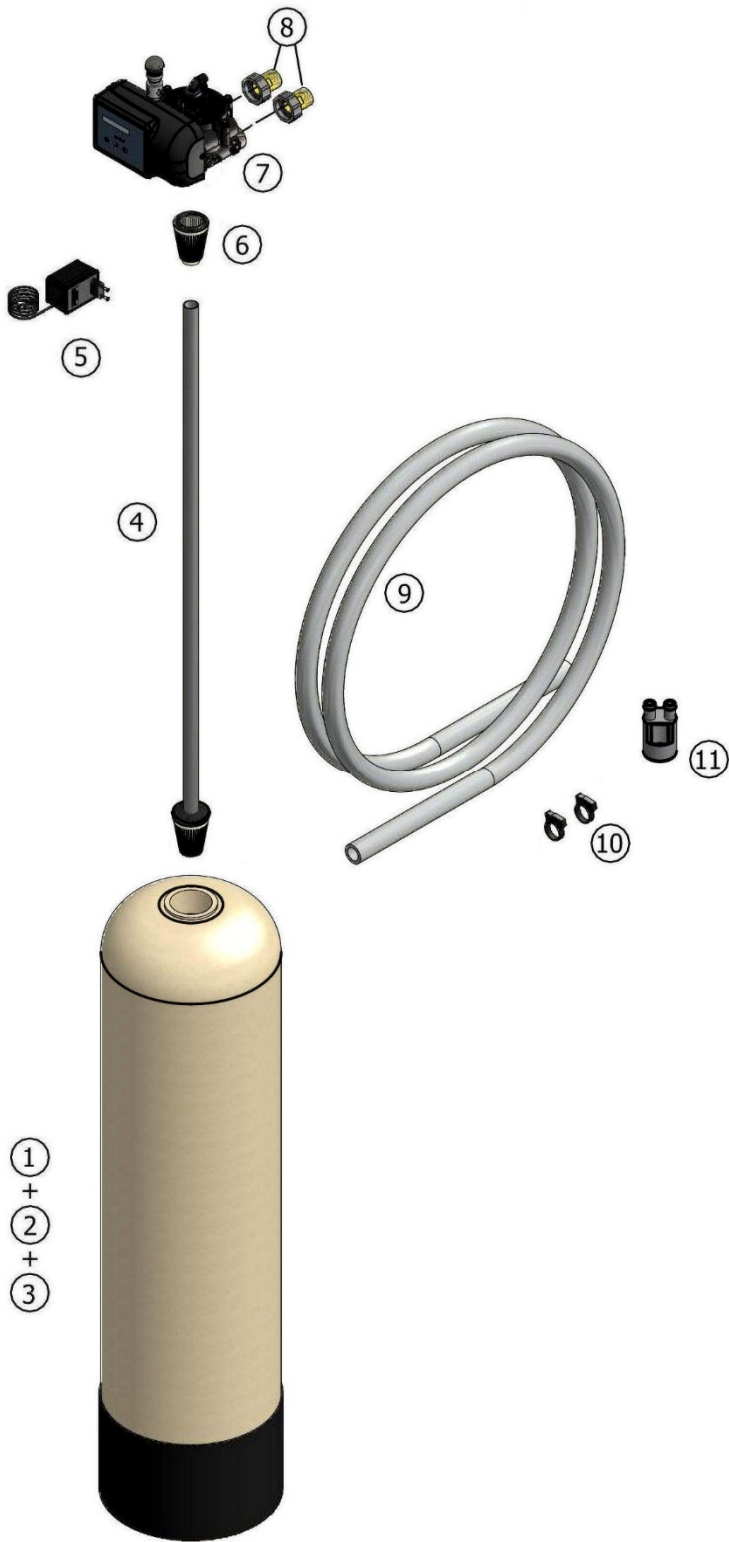


DEFAULT PARAMETER SETTINGS

Model	O ₂ ydizer	
	1 - 28	2 - 56
Filter media, quantity (Cuft - Ltr)		
Interval (days)	4	4
Cycle 1: BACKWASH (min)	10	10
Cycle 2: AIR INTAKE (min)	10	15
Cycle 3: PURGE (min)	2	2
Regen @	0:00	0:00



EXPLODED VIEW - SYSTEM

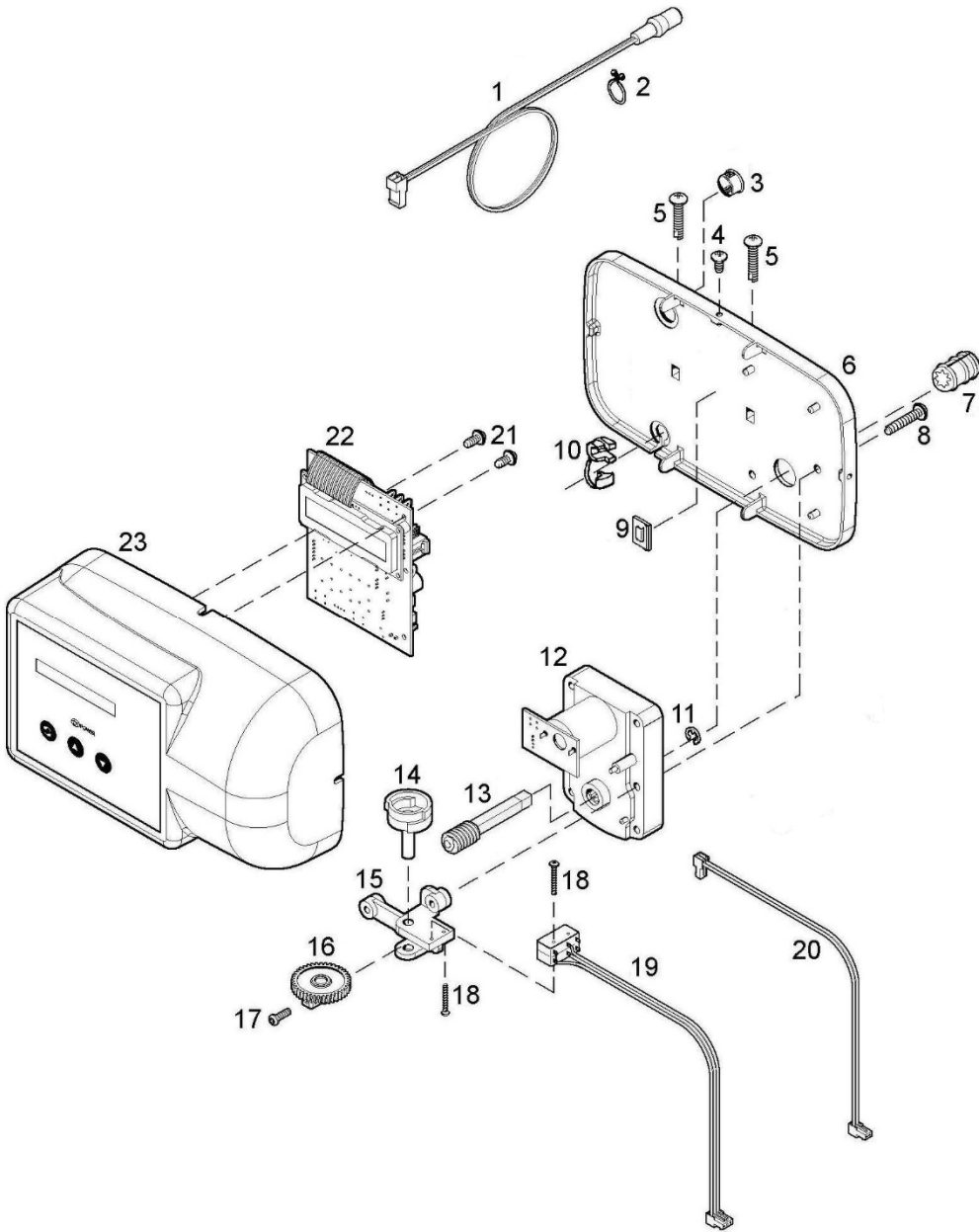


EXPLODED VIEW - SYSTEM

Item	PN	Description	Remark	(*)
1	PT/1040/BA PT/1252/BA	Pressure tank 10x40 Pressure tank 12x52	1 Cuft 2 Cuft	✓ ✓
2	A8006	Birm	to be ordered in multiple of 1 Cuft	
3	A1000	Gravel (1 Cuft: 4,3 kg - 2 Cuft: 6,4 kg)	to be ordered per kg	
4	38534	Riser tube assembly	to be cut to length	✓
5	28/298/11	Transformer 230/24V - 50 Hz, 24VA, EuroT plug		✓
6	287/166/LS	Top distributor		✓
7	2400TF/J5N/AUX/AIR 2400TF/J5Q/AUX/AIR	Control valve Control valve	O ₂ xydizer 1 Cuft O ₂ xydizer 2 Cuft	
8	568/303/1	Connection kit 1" BSP male		
9	38522	Drain hose	to be ordered per meter	
10	38521	Clamp, drain hose (2x)		
11	74163	Air gap with double hose barb		

(*) Recommended Spare Part

EXPLODED VIEW - TIMER HEAD

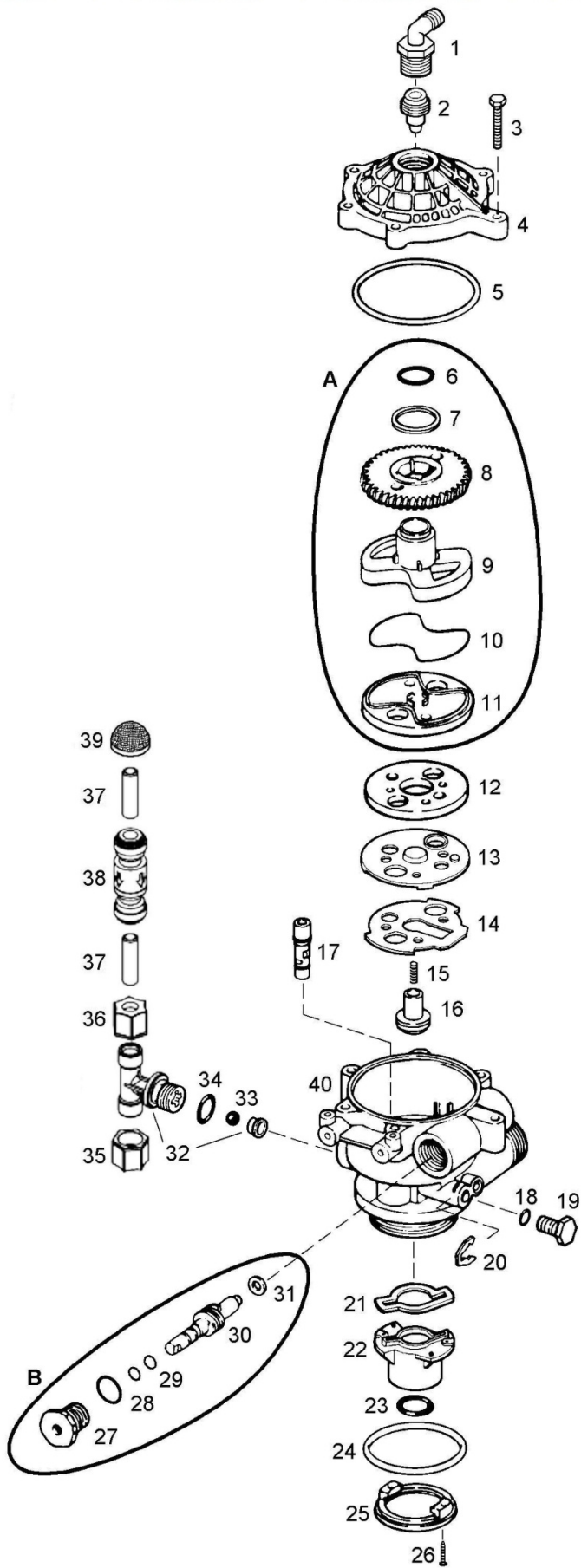


EXPLODED VIEW - TIMER HEAD

Item	PN	Description	Remark	(*)
1	70971	Power lead with plug		✓
2	72263	Clamp		
3	28/244/1	Plug (large)		
4	71502	Screw, timer cover (3x)		
5	15/222	Screw, back plate (2x)		
6	70962	Back plate		
7	15/222	Screw, drive motor assy (2x)		
8	75157	Worm coupling		✓
9	28/245/4	Cable clamp		
10	71502	Strain relief, power lead		
11	75158	Retaining ring, worm drive shaft		✓
12	72261	Drive motor		✓
13	75156	Worm drive shaft		✓
14	70965	Switch cam		
15	568/386	Bracket, micro switches		
16	568/310	Gear, switch cam		
17	15/184/7	Locking screw, switch cam		
18	15/173/12	Screw, micro switches (2x)		
19	72451	Micro switch assy		✓
20	71679	Cable set, drive motor		✓
21	15/102	Screw, PCB (2x)		
22	72703	Printed Circuit Board		✓
23	72614	Timer cover assembly		

(*) Recommended Spare Part

EXPLODED VIEW - VALVE BODY



EXPLODED VIEW - VALVE BODY

Item	PN	Description	Remark	(*)
1	21/83	Drain connection		
2	568/271/N 568/271/Q	Backwash flow control N (22,7 Ltr/min) Backwash flow control Q (30,3 Ltr/min)	1 Cuft 2 Cuft	
3	72678	Bolt, valve cover (6x)		
4	568/254/3	Valve cover		
5	185/154/1	O-ring, valve cover		
6	186/112	O-ring, Teflon		
7	72327	Washer, PE		
8	568/260	Worm gear		
9	568/259	Rotor cam		
10	185/041/1	O-ring, rotor		
11	568/345/2	Rotor plate		✓
12	568/256	Seal disk		✓
13	568/383	Insert plate		
14	568/384	Gasket		
15	413/62	Spring, float valve		
16	568/270/4	Float valve		
17	568/274/5	Injector (green)		
18	186/118	O-ring, plug (small)		
19	541/273	Plug (small)		
20	541/254	Spring clip, plug (small)		
21	570/251	Gasket, riser		
22	568/334	Riser insert		
23	185/214/1	O-ring, riser tube		
24	185/337/1	O-ring, tank		
25	541/232	Adapter ring		
26	15/207/12	Screw, adapter ring (2x)		
27	72772	Packing gland nut (plastic)		
28	185/211/1	O-ring, packing gland nut		
29	186/115	O-ring, worm drive shaft (2x)		
30	568/208/2	Worm drive shaft		
31	14/43	Washer, worm drive shaft		
32	568/340	Air intake Tee		✓
33	26/47/12N	Check ball, air intake Tee		
34	185/208/1	O-ring, air intake Tee		
35	38812	Blind nut		
36	21/88	Nut, air intake Tee		
37	18772	Extension tube (2x)		
38	19734	Check valve		✓
39	19856	Air intake screen		
40	72800	Valve body		
A	RK/568/259/2	Repair kit rotor		✓
B	RK/75154	Repair kit packing gland nut		

(*) Recommended Spare Part

TECHNICAL DATA

Technical specifications:

Model	O ₂ xydizer	
Filter media (Cuft - Ltr)	1 - 28	2 - 56
Operating pressure min/max (bar)	2,0/8,3	
Operating temperature min/max (°C)	2/48	
Electrical connection (V/Hz)	230/50 ⁽¹⁾	
Max. power consumption (VA)	12	
Hydraulic connection inlet/outlet	1" BSP Male	

(1) Supplied with 24V transformer

Performances @ 3 bar operating pressure:

Model	O ₂ xydizer	
Filter media (Cuft - Ltr)	1 - 28	2 - 56
Recommended max. service flow (m ³ /hr) ⁽²⁾	1,1	1,6
Nominal backwash flow = flow to drain (Ltr/min)	23	30
Rinse water usage per regeneration (Ltr)	352	444

(2) = continuous service flow rates; higher (up to x2) short-period peak flow rates are possible

Dimensions and weights:

Model	O ₂ xydizer	
Filter media (Cuft - Ltr)	1 - 28	2 - 56
Width (mm)	268	317
Height (mm)	1.185 ±10	1.503 ±10
Depth (mm)	290	317
Depth, incl. factory bypass (mm)	371	376
Height inlet/outlet (mm)	1.047	1.365
Weight (kg)	30,5	55,0





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