

Nitrate removal systems of the Watermark Series 470, 530, 655, 755



This system is composed of a PRFV Greentank bottle with upper and lower distributors, and a salt tank made of polyethylene with enough capacity for several regenerations. It has a double bottom and a safety valve. Control valves are made of heavy-duty Noryl and controlled by a piston.



470



655



530



755

Valve WS470UF: Countercurrent regeneration, advanced electronic programmer, 1" connection.

Valve WS530UF: Countercurrent regeneration, advanced electronic programmer, 1" connection.

Valve WS655UF: Standard regeneration, advanced electronic programmer, 1 1/2" connection.

Valve WS755UF: Standard regeneration, advanced electronic programmer, 2" connection.

It contains selective nitrate removal resin, which features a great capacity and is supplied in 25 litre bags.

Silex distributing base with different grain sizes in order to optimise the distribution of brine and improve the regeneration process.

Technical specifications:

Minimum pressure: 2 kg/cm².

Maximum pressure: 6 kg/cm².

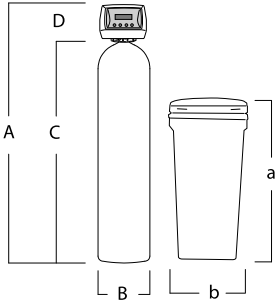
Minimum temperature: 4 °C.

Maximum temperature: 40 °C.

Power supply 220V-12V (transformer included).

Optional bypass.

Code	Packaging units	Description	Resin volume L	Connection Ø	Vessel	Salt tank litres	Working flow m ³ /h	Peak flow m ³ /h
920213	1	WSDN470UF-15	15	15	8 x 35	70	0,5	0,6
920214	1	WSDN470UF-25	25	25	10 x 35	70	0,8	1,0
920215	1	WSDN470UF-45	45	45	10 x 54	145	1,4	1,8
920216	1	WSDN470UF-75	75	75	13 x 54	200	2,4	3,0
920217	1	WSDN470UF-100	100	100	14 x 65	200	3,2	4,0
920411	1	WSDN530UF-125	125	125	16 x 65	350	4,0	5,0
920412	1	WSDN530UF-150	150	150	18 x 65	500	4,8	6,0
920413	1	WSDN530UF-175	175	175	18 x 65	500	5,6	6,3
920414	1	WSDN530UF-200	200	200	21 x 62	500	6,3	6,3
920415	1	WSDN530UF-225	225	225	21 x 62	750	6,3	6,3
920026	1	WSDN655-250	250	250	24 x 72	500	8,0	10,5
920028	1	WSDN655-350	350	350	30 x 72	750	10,5	10,5
920029	1	WSDN655-400	400	400	30 x 72	1000	10,5	10,5
920230	1	WSDN755UF-450	450	450	30 x 72	1000	14,4	15,9
920231	1	WSDN755UF-500	500	500	30 x 72	1000	15,9	15,9
920232	1	WSDN755UF-550	550	550	36 x 72	1500	15,9	15,9
920233	1	WSDN755UF-600	600	600	36 x 72	1500	15,9	15,9
920234	1	WSDN755UF-700	700	700	42 x 72	1500	15,9	15,9
920235	1	WSDN755UF-800	800	800	42 x 72	1500	15,9	15,9



Code	A	B	C	D	a	b
920213	1047	215	897	150	810	390
920214	1043	268	893	150	810	390
920215	1531	268	1381	150	950	516
920216	1548	349	1398	150	1160	550
920217	1824	366	1674	150	1160	550
920411	1906	411	1706	200	1275	740
920412	1922	491	1722	200	1335	840
920413	1922	491	1722	200	1335	840
920414	1921	555	1721	200	1335	840
920415	1921	555	1721	200	1395	960 mm

Code	A	B	C	D	a	b
920026	2124	622	1918	206	1335	840
920028	2346	784	2140	206	1395	960
920029	2346	787	2140	206	1460	1080
920030	2346	787	2140	206	1080	1460
920031	2346	787	2140	206	1080	1460
920032	2356	931	2150	206	1575	1240
920033	2356	931	2150	206	1575	1240
920034	2745	1235	2395	350	1575	1240
920035	2745	1235	2395	350	1575	1240 mm

Code	Salt/regen. KgNaCl	Treated water volume m ³ /NO ₃				Resin volume litres
		75 ppm	100 ppm	150 ppm	200 ppm	
920213	3,8	5,4	4,1	2,6	2,0	15
920214	6,3	9,0	6,8	4,4	3,3	25
920215	11,3	16,3	12,3	7,9	5,9	45
920216	18,8	27,1	20,5	13,1	9,8	75
920217	25,0	36,1	27,3	17,5	13,1	100
920411	31,3	45,1	34,1	21,9	16,4	125
920412	37,5	54,2	41,0	26,3	19,7	150
920413	43,8	63,2	47,8	30,6	22,9	175
920414	50,0	72,2	54,6	35,0	26,2	200
920415	56,3	81,2	61,4	39,4	29,5	225
920026	62,5	90,3	68,2	43,8	32,7	250
920028	87,5	126	95,5	61,3	45,8	350
920029	100	144	109	70,0	52,3	400
920230	113	162	122,6	78,8	58,8	450
920231	125	180	136,3	87,5	65,4	500
920232	138	198	149,9	96,3	71,9	550
920233	150	216	163,5	105	78,5	600
920234	175	252	190	122,5	91,5	700
920235	200	288	218	140	104,6	800

Code	Packaging units	Description	Valves
920122	1	Electrovalve shut-off control kit	WS470-530-655
960177	1	Isolation by-pass	WS530

NOTE: In function of the concentration of sulphates in inlet water, the cycle of the device and the leakage of nitrates may vary.

[NO ₃ ⁻²]	% leakage	[NO ₃ ⁻²]	% leakage
75 ppm	26	150 ppm	20
100 ppm	23	200 ppm	17

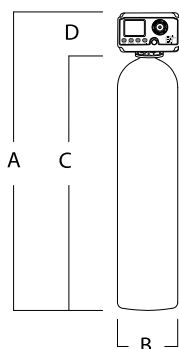
Volume of water calculated on the basis of 250 ppm of sulphates.

Multi-layer Automatic Filters

Reduction of turbidity in water. Silex filtering load with different grain sizes and filtering hydro-anthracite.



655



Bottle	A	B	C	D
8x35	1072	215	897	175
10x54	1556	255	1381	175
13x54	1598	349	1398	200
14x65	1874	366	1674	200
16x65	1911	411	1705	206
18x65	1928	491	1722	206
21x62	1927	555	1721	206
24x72	2124	622	1918	206 mm

Advanced multilingual electronic programmer that allows to control all operating parameters, including the duration of the different stages, the type of regeneration, etc.

It contains a filtering load of silex with different grain sizes and filtering hydro-anthracite. It is supplied in bags.

Built-in bypass.

Technical specifications:

Min. pressure: 2 kg/cm².
Max. pressure: 6 kg/cm².
Min. temperature: 4 °C.
Max. temperature: 35 °C.
Power supply 220 V - 12 V



470



530



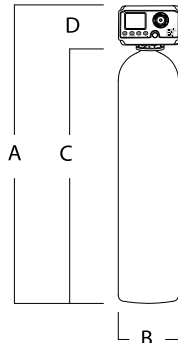
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Code	Description	Ø Connection	Vessel	Filtering surface m ²	Working flow m ³ /h filtering speed			Backwash flow m ³ /h	Filtering load	
					10	15	20		Silex	Anthracite
920202	WSFD470-17	1"	8 x 35	0,03	0,3	0,5	0,6	1,2	22	13
920203	WSFD470-45	1"	10 x 54	0,05	0,5	0,8	1,0	2	52	10
920419	WSFD530-75	1"	13 x 54	0,09	0,9	1,4	1,8	3,6	85	17
920420	WSFD530-100	1"	14 x 65	0,10	1,0	1,5	2,0	4	120	20
920104	WSFD655-125	1 1/2"	16 x 65	0,13	1,3	2,0	2,6	5,2	149	26
920105	WSFD655-175	1 1/2"	18 x 65	0,16	1,6	2,5	3,3	6,6	215	33
920124	WSFD655-200	1 1/2"	21 x 62	0,22	2,2	3,3	4,4	8,8	230	45
920150	WSFD755-300	2"	24 x 72	0,26	2,6	3,9	5,2	10,4	350	60
920141	WSFD655-175x2	1 1/2"	2 uds. x 18 x 65	0,32	3,2	5,0	6,6	6,6	430	66
920142	WSFD655-200x2	1 1/2"	2 uds. x 21 x 62	0,44	4,4	6,6	8,8	8,8	460	90
920150	WSFC755-300x2	2"	2 uds. x 24 x 72	0,52	5,2	7,8	10,4	7,8	700	120



Activated Carbon Automatic Filters

Reduction of the level of chlorine in water, absorption of organic and volatile substances.
Filtering load of coconut shell activated carbon.



Bottle	A	B	C	D
8x35	1072	215	897	175
10x54	1556	255	1381	175
13x54	1598	349	1398	200
14x65	1874	366	1674	200
16x65	1905	411	1705	200
18x65	1922	491	1722	200
21x62	1927	555	1721	206
24x72	2124	622	1918	206
30x72	2346	787	2140	206 mm

Advanced multilingual electronic programmer that allows to control all operating parameters, including the duration of the different stages, the type of regeneration, etc.

Contains a filtering load of coconut shell activated carbon.

It is supplied in bags.

Easysmart programmer. High flow.

Technical specifications:

Min. pressure: 2 kg/cm².

Max. pressure: 6 kg/cm².

Min. temperature: 4 °C.

Max. temperature: 35 °C.

Power supply 220 V - 12 V

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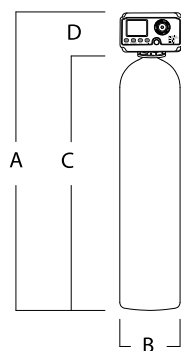
Code	Description	Ø Connection	Vessel	Filtering surface m ²	Working flow m ³ /h filtering speed			Backwash flow m ³ /h	Active carbon	
					10	15	20		l	kg
920200	WSFC470-17	1"	8 x 35	0,03	0,3	0,5	0,6	0,9	17	8,5
920201	WSFC470-45	1"	10 x 54	0,05	0,5	0,8	1,0	1,5	45	22,5
920425	WSFC530-75	1"	13 x 54	0,09	0,9	1,3	1,7	2,6	75	37,5
920416	WSFC530-100	1"	14 x 65	0,10	1,0	1,5	2,0	3,0	100	50
920417	WSFC530-125	1"	16 x 65	0,13	1,3	2,0	2,6	3,9	125	62,5
920418	WSFC530-175	1"	18 x 65	0,16	1,6	2,4	3,2	4,8	175	87,5
920112	WSFC655-200	1 1/2"	21 x 62	0,22	2,2	3,3	4,4	6,6	200	100
920113	WSFC655-300	1 1/2"	24 x 72	0,26	2,9	4,4	5,8	8,8	300	150
920152	WSFC755-400	2"	30 x 72	0,44	4,4	6,6	8,8	13,2	400	200
920136	WSFC655-200x2	1 1/2"	2 uds. x 21 x 62	0,44	4,4	6,5	8,8	6,6	400	200
920138	WSFC655-300x2	1 1/2"	2 uds. x 24 x 72	0,52	5,8	8,8	11,6	8,8	600	300
920153	WSFC755-400x2	2"	2 uds. x 30 x 72	0,88	8,8	13,2	17,7	13,2	800	400

Zeolites Automatic Filters

Reduction of turbidity in water. Zeolites filtering load with different grain sizes.



655



Bottle	A	B	C	D
7x44	1298	205	1123	175
8x44	1297	215	1122	175
9x48	1403	225	1228	175
10x54	1556	255	1381	175
12x52	1538	305	1338	200
13x54	1598	349	1398	200
14x65	1874	366	1674	200
16x65	1911	411	1705	206
18x65	1928	491	1722	206
21x62	1927	555	1721	206
24x72	2124	622	1918	206 mm

Advanced multilingual electronic programmer that allows to control all operating parameters, including the duration of the different stages, the type of regeneration, etc.

Contains a zeolites filtering load with different grain sizes. It is supplied in bags. Reduction of turbidity in water.

Technical specifications:

Min. pressure: 2 kg/cm².

Max. pressure: 6 kg/cm².

Min. temperature: 4 °C.

Max. temperature: 35 °C.

Power supply 220 V - 12 V



470



530



755

Code	Description	Connection Ø	Vessel	Filtering surface m ²	Working flow m ³ /h filtering speed			Backwash flow m ³ /h	Zeolites	
					30	40	50		l	Kg
920426	WSFZ470-17	1"	7 x 44	0,02	0,7	1	1,2	1	16	13
920427	WSFZ470-21	1"	8 x 44	0,03	1,0	1,3	1,6	1,3	22	17
920428	WSFZ470-30	1"	9 x 48	0,04	1,2	1,6	2,1	1,6	30	24
920429	WSFZ470-40	1"	10 x 54	0,05	1,5	2	2,5	2	40	32
920430	WSFZ530-60	1"	12 x 52	0,08	2,2	2,9	3,6	2,9	57	45
920431	WSFZ530-70	1"	13 x 54	0,09	2,6	3,4	4,3	3,4	69	55
920432	WSFZ530-100	1"	14 x 65	0,1	3,0	4	5	4	98	78
920433	WSFZ655-125	1 1/2"	16 x 65	0,13	3,9	5,2	6,5	5,2	124	99
920434	WSFZ655-170	1 1/2"	18 x 65	0,16	4,9	6,6	8,2	6,6	166	133
920435	WSFZ655-225	1 1/2"	21 x 62	0,22	6,7	8,9	11,2	8,9	214	171
920478	WSFZ755-300	2"	24 x 72	0,26	7,8	10,4	13	10,4	318	255

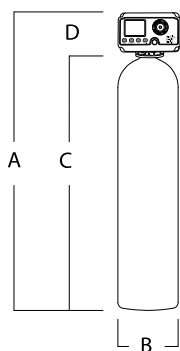


Iron Removal Automatic Filters

Reduction of iron and manganese. Filtering load containing Katalox Light and filtering zeolite.



655



Bottle	A	B	C	D
8x35	1072	215	897	175
10x54	1556	255	1381	175
13x54	1598	349	1398	200
14x65	1874	366	1674	200
16x65	1905	411	1705	200
18x65	1922	491	1722	200
21x62	1927	555	1721	206
24x72	2124	622	1918	206 mm

Advanced multilingual electronic programmer that allows to control all operating parameters, including the duration of the different stages, the type of regeneration, etc.

Filtering loads containing Katalox Light and filtering zeolite. It is supplied in bags. Reduction of iron and manganese.

Technical specifications:

- Min. pressure: 2 kg/cm².
- Max. pressure: 6 kg/cm².
- Min. temperature: 4 °C.
- Max. temperature: 35 °C.
- Power supply 220 V - 12 V



470



530



755

Code	Description	Connection Ø	Vessel	Filtering surface m ²	Flow m ³ /h maximum	Backwash flow m ³ /h	Filtering load Kg	
							Zeolite	Katalox
920479	WSFE470-17	1"	8 x 35	0,03	0,2	1,0	1	17
920228	WSFE470-45	1"	10 x 54	0,05	0,6	1,6	2	43
920480	WSFE530-75	1"	13 x 54	0,09	1,0	2,7	3	74
920481	WSFE530-100	1"	14 x 65	0,10	1,4	3,2	6	103
920482	WSFE530-125	1"	16 x 65	0,13	1,8	4,1	8	130
920444	WSFE530-175	1"	18 x 65	0,16	2,4	5,8	14	173
920148	WSFE655-200	1 1/2"	21 x 62	0,22	3,0	7,4	20	219
920483	WSFE755-300	2"	24 x 72	0,26	3,7	9,0	33	332