

Water Softeners SOFT series



APPLICATIONS: Potable water treatment, Food & Beverage, Wastewater treatment, Industrial processes

USAGE: The water softening is the process of removing calcium and magnesium salts through the process of ion exchange. The softeners protect piping and hot water systems from salt deposits. The standard systems are supplied complete and ready for use.

OPERATION: Water softeners can remove metal particles and contaminants from the water, acting as a sponge, where the particles are pulled from the minerals and leave a concentration of soft clean water. The water comes in from the main supply line, it passes through the first tank which contains resin (ionic beans). The resin takes all the hard minerals and then the water is ready for supply. This system requires two tanks. The second tank contains salt which is used for the backwash of the resin. This tank has also water to create a salt brine. Every few days (or hours, depending on the usage and requirements) the salt brine is flushed into the resin tank to clean and wash away the hardness ions. This process is called regeneration of the resin.

MAINTENANCE: The maintenance is very simple. The addition of extra salt is required and the correct operation of the system is guaranteed.

Materials

BODY: Steel S235JR (also available in stainless steel AISI 304 & 316, upon request)

MEDIA: Gel strong acid cation exchange resin, certified for drinking water applications

GASKETS: EPDM

SURFACE TREATMENT: Chemical cleaning (pickling, phosphate) and electrostatic painting with polyester powder (available epoxy coatings suitable for drinking water).

BRINE TANK: Plastic

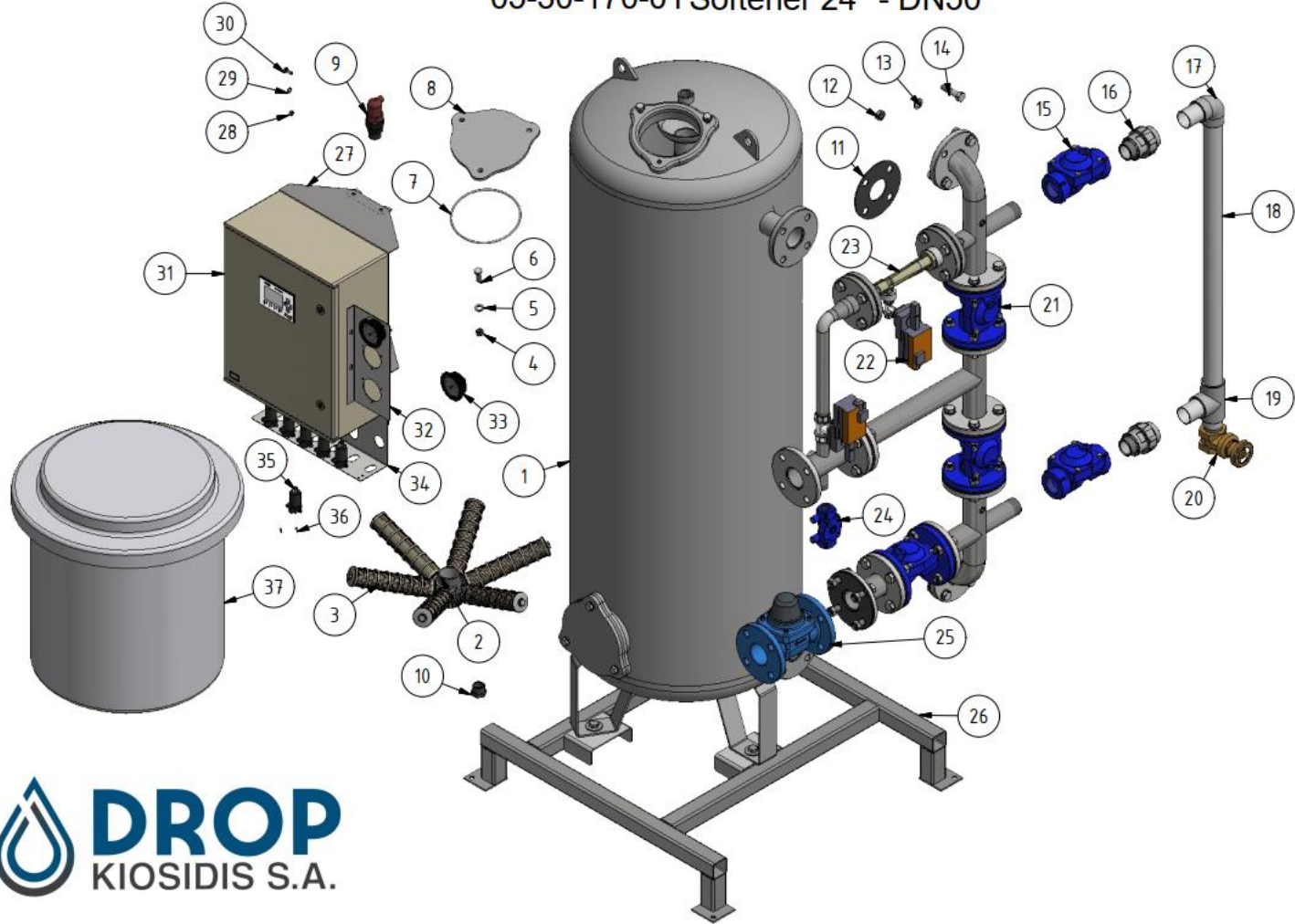
CODE	05-30-170	05-30-171	05-30-172	05-30-173	05-30-174	05-30-175
DESCRIPTION	1 ½''-18''	2''-20''	2''-24''	2''-30''	2''-36''	2''-48''
BRINE TANK (L)	340	340	460	670	920	920
RESIN VOLUME (L)	150	175	250	400	575	1000
EXCHANGE CAPACITY (m ³ x°F) *	900	1050	1500	2400	3450	6000
MAX FLOW (m ³ /h)	5.5	6.8	9.8	15	22	38
H (mm)	1500	1500	1500	1500	1500	1500
L1 (mm)	380	370	400	450	450	650
L2 (mm)	1300	1300	1300	1300	1300	1300
Ø D (mm)	450	500	600	750	900	1200
TANK VOLUME (Lt)	260	330	475	750	1130	2080

*Double or larger systems are available upon request

05-30-170-1

ITEM	QTY	PART NUMBER	TITLE
1	1	02-00-838-24-002	Filter housing SOFT 2"-24" (600*1500)
2	1	02-03-107	Collector 2" MS06 (PP)
3	6	02-03-110	Diffuser PP L 237xM30 slot 0.5
4	6	02-10-306	Nut M12 galvanized
5	6	02-10-250	Washer M12
6	6	02-10-172	Bolt galvanized M12x35
7	1	02-02-030	O-ring 174x5.33mm
8	2	02-01-062	Lid for filter without hole
9	1	05-20-045	Air release valve 1" three acting
10	1	02-05-342	Plug 1" TM (PE)
11	9	02-02-051	Rubber flange 2"
12	48	02-10-303	Nut DIN 934 - M16 x 2
13	48	02-10-200	Washer DIN 125 – M16 galvanized
14	48	02-10-161	Bolt galvanized M16x60 DIN 931
15	1	02-05-128	Elbow PVC solvent gluing d.50
16	1	00-02-209	Pipe PvC d 50/16 atm
17	1	02-05-129	Tee Ø50 PVC 90
18	1	02-04-026	Gate valve 1 ½ "
19	2	02-05-127	Union PVC Ø50 x 1½" Glued - TM
20	2	02-04-166	Hydraulic valve 1½" BSP
21	3	02-04-197	2way hydraulic valve 2" flanged
22	2	06-00-203	Venturi injector 1 ½ "
23	2	02-07-040	Rotary actuator ball valve ½ " with motor 24 VAC
24	1	02-04-183	Hydraulic valve ¾ " Dorot
25	1	02-04-196	Water meter Woltman type DN50 pulse output
26	1	02-08-039	Base for filter
27	1	02-08-035-1	Mounting plate for control panel 40x50
28	6	02-10-207	Nut galvanized M8 DIN 934
29	6	02-10-202	Washer galvanized M8
30	6	02-10-168	Bolt galvanized M8 x 20 DIN 933
31	1	02-07-240	LOGOi8 Ether TDE Monitor
32	1	02-08-026	Pressure gauge mount (DP + 2 x)
33	2	06-02-016	Glycerin pressure gauge 0-16 panel mount
34	1	02-08-036	Solenoid (mini) support base
35	5	02-07-006	Pressure gauge differential (A20DP-K-15 1/8") 0-1 bar
36	10	02-10-140	Flat head screw 3.5x13 inox
37	1	06-11-052	Brine tank 270 lt

05-30-170-01 Softener 24" - DN50



05-30-170-3

ITEM	QTY	PART NUMBER	TITLE
1	1	02-00-840-36-200	Filter housing SOFT 2"-36" (900*1500)
2	1	02-03-108	Collector 3" MS06 (PP)
3	6	02-03-111	Diffuser PP L 361xM30 slot 0.5
4	3	02-10-172	Bolt DIN 933- M12x35 inox
5	3	02-10-250	Washer M12 DIN125
6	3	02-10-306	Nut galvanized M12 DIN934
7	1	02-02-030	O-ring 174.5x5.33 mm8
8	1	02-01-062	Lid for filter without hole
9	4	02-10-303	Nut M16 galvanized
10	4	02-10-200	Washer M16
11	4	02-10-114	Bolt galvanized M16x100 hexagon
12	1	02-02-019	Lid seal for O, K-5"-6", K-6" RBR, S-5"-6".C-6", SY-6"
13	1	03-01-086	Manhole 10" lid without hole
14	1	05-20-045	Air release valve 1" three acting
15	1	02-05-342	Plug 1" TM (PE)
16	9	02-02-051	Rubber flange 2"
17	48	02-10-303	Nut DIN 934 - M16 x 2
18	48	02-10-200	Washer DIN 125 – M16 galvanized
19	48	02-10-161	Bolt galvanized M16x60 DIN 931
20	1	02-05-128	Elbow PVC solvent gluing d.50
21	1	00-02-209	Pipe PvC d 50/16 atm
22	1	02-05-129	Tee Ø50 PVC 90
23	1	02-04-026	Gate valve 1 ½ "
24	2	02-05-127	Union PVC Ø50 x 1½" Glued - TM
25	2	02-04-166	Hydraulic valve 1½" BSP
26	3	02-04-197	2way hydraulic valve 2" flanged
27	2	06-00-203	Venturi injector 1 ½ "
28	2	02-07-040	Rotary actuator ball valve ½ " with motor 24 VAC
29	1	02-04-183	Hydraulic valve ¾ " Dorot
30	1	02-04-196	Water meter Woltman type DN50 pulse output
31	1	02-08-039	Base for filter
32	1	02-08-035-1	Mounting plate for control panel 40x50
33	6	02-10-207	Nut galvanized M8 DIN 934
34	6	02-10-202	Washer galvanized M8
35	6	02-10-168	Bolt galvanized M8 x 20 DIN 933
36	1	02-07-240	LOGOi8 Ether TDE Monitor
37	1	02-08-026	Pressure gauge mount (DP + 2 x)
38	2	06-02-016	Glycerin pressure gauge 0-16 panel mount
39	1	02-08-036	Solenoid (mini) support base
40	5	02-07-006	Pressure gauge differential (A20DP-K-15 1/8") 0-1 bar
41	10	02-10-140	Flat head screw 3.5x13 inox
42	1	06-11-053	Brine tank 950 lt

05-30-170-03 Softener 36" - DN50

