



WATER SOFTENER



PWS

Email: info@packman.ir

(+9821) 88739075 - 9 (+9821) 42362

WATER SOFTENER



PWS

Model	PWS-30	PWS-40		PWS-45	PWS-50			PWS-55
		B	A		C	B	A	
Capacity (Grain)	78000	110000	140000	150000	170000	200000	220000	250000
Medium (Gpm)	10.5	12	18	15	18	21	27	30
Flow Maximum (Gpm)	17.5	20	30	25	30	35	45	50
Washing (Gpm)	5	6	9	7.5	8	10	9	14
Required volume of water for washing	122.5	140	210	175	210	175	210	350
Pipes dimension (in)	3/4	1	1	1	1.1/2	1.1/2	1.1/2	1.1/2
Column diameter (cm)	30	40	40	45	50	50	50	55
Resin volume (ft³)	3.5	4	6	5	6	7	9	10
Salt (lb)	14	16	24	20	24	28	36	40
Hight (cm)	180	146	180	155	140	165	180	180
General dimension (cm x cm)	80 x 40	100 x 50	100 x 50	100 x 55	125 x 60	125 x 60	125 x 60	130 x 65
Pressure drop (kpa)	19	12.6	18.6	12.6	12.6	14	18	16.5
Send (kg)	30	60	60	75	90	90	90	110
Hand hole flange (in)	5	6	6	6	6	6	6	6
Send flange (in)	5	6	6	6	6	6	6	6

$$\text{water Softener Capacity (Grain)} = \frac{(\text{Flow Rate (Gpm)} \times 60 \times \text{Washing Cycle (hr)} \times \text{Water Hardness (ppm)})}{17.1}$$

1 in = 25.3995 mm; 1 ft = 12 in = 0.3048m

1 lb = 7000 grain = 0.4536 kg

1 gal = 4.546 l (brit.) = 3.785 l (am) = 0.16 cu.ft.

1 M W= 1000 KW = 860,000 Kcal/hr ; 1 Kcal/hr = 3.93 BTU/hr ; 1 bar = 14.504 psi = 0.984 atm = 100 kpa

1 atm = 1.013 bar ; 1 kg/cm = 14.233 lb/sq in (psi); 1 BHP = 33,480 BUT/hr = 9.803 KW

All Specifications are subject to change without notice.

WATER SOFTENER



PWS

Model	PWS-60	PWS-75	PWS-90	PWS-105	PWS-130	PWS-140	PWS-150
Capacity (Grain)	350000	550000	950000	1300000	2000000	2200000	3000000
Medium (Gpm)	36	54	90	125	190	220	255
Flow Maximum (Gpm)	60	90	150	210	320	370	425
Washing (Gpm)	18	27	45	60	100	110	130
Required volume of water for washing	420	630	1000	1500	2250	2600	3000
Pipes dimension (in)	1.1/2	2	2	3	3	4	4
Column diameter (cm)	60	75	90	105	130	140	150
Resin volume (ft³)	12	18	30	42	64	74	85
Salt (lb)	48	72	120	170	260	300	350
Hight (cm)	200	200	200	250	250	270	270
General dimension (cm x cm)	150 x 70	180 x 85	220 x 100	250 x 115	280 x 160	300 x 170	300 x 180
Pressure drop (kpa)	16.8	16.8	19	19	19	19	19
Send (kg)	135	110	400	400	620	720	830
Hand hole flange (in)	6	6	8	10	10	10	10
Send flange (in)	6	6	8	14	14	14	14

- There are two kinds of control valves, hand adjustment and semi automatic.
- The resin storage tank is made of ST37 with 6-10 thickness and two layer epoxy.
- The salt tank is made of steel or plastic and the nozzles are made of brass.
- The internal water temperture is between 5-55 degree of centigrade.
- working pressure: 1-6 bar
- Test pressure: 10 bar