Modern water softeners

TAPWORKS WATER SOFTENERS

TAPWORKS - it's a professional water softening based on ion exchange.

TAPWORKS - it's a soft water for households as well as for heating systems and cooling systems.

Advantages of TAPWORKS water softeners:

- electronic, logic and volumetric control system
- high capacity resin
- electronic timer with LCD display
- continuous control of the softener performance (remote diagnostics and machine performance data via EASE/ESP)
- proportional regeneration (according to remaining softening capacity of resin)
- low operating costs (less salt and water usage)
- protection of the softener's memory during power cuts (24-hour power loss back up)
- flow rate indication

MEMBER Water Quality ASSOCIATION

ISO 9001 REGISTERED

Nearest Partner

www.tapworks.pl

Specifications	Unit	NSC 11 ED	NSC 17 ED	NSC 25 ED	NSTA 70 UD1
Resin volume	(dm^3)	11	17	20	60
Resin bed		Ion exchange resin			
Maximum flow rate (low-temperature water boiler plant)	(m^3/h)	0,9	1,3	1,5	3,6
Maximum flow rate (useful water for households or make-up water for cooling systems)	(m^3/h)	1,2	1,8	2,0	5,0
Average ion exchange capacity	($m^3 x°f$)	70	125	150	395
Maximum daytime capacity with raw water hardness respectively:	(m^3)				
10°dH=17,8°f=178mg$CaCO_3$/dm^3=3,56mval/dm^3		3,9	7,0	8,4	22,2
14°dH=24,9°f=249mg$CaCO_3$/dm^3=4,98mval/dm^3		2,8	5,0	6,0	15,9
18°dH=32,1°f=321mg$CaCO_3$/dm^3=6,41mval/dm^3		2,2	3,9	4,7	12,3
23°dH=40,9°f=409mg$CaCO_3$/dm^3=8,19mval/dm^3		1,7	3,1	3,7	9,7
Maximum summary iron (Fe^{++}) and manganese (Mn^{++}) level	(ppm)	2,2 without warranty of removal			
Starting of regeneration		automatic, according to water use and water's hardness			
Type of regeneration		counter-current			
Preparing of brine		with soft water			
Maximum use of salt per regeneration with "exhausted" resin	(kg)	1,7	3,2	4,0	9,0
Type of salt		Tablet salt for regeneration DIN 19604			
Maximum flow rate for a regeneration	(m^3/h) (dm^3/min)	0,55 9,20	0,66 11,00	0,68 11,40	0,69 11,50
Approximate use of water per regeneration with "exhausted" resin	(dm^3)	60-80	85-115	125-150	280-340
Duration of regeneration	(h:min)	approx 1:00	approx 2:00	approx 2:00	approx 2:30
Operating water temperature limits	(°C)	4 – 49			
Electrical supply via transformer	(V/Hz)	24/50			
Electric power consumption – during service – during regeneration	(W) (W)	<3 <15			
Minimum working pressure	(bar)	1,4			
Maximum working pressure	(bar)	8,0			
Electronic timer features					
Type of control		Electronic, logic, based on prognostic system			
Set present time of day; Present time display		Yes			
Set regeneration (starting) time		Yes			
Set raw water hardness number		Yes (1-50°dH)	Yes (1-50°dH)	Yes (1-95°dH)	Yes (1-120°dH)
Set salt efficiency		No	No	Yes	Yes
Immediate regeneration		Yes			
Next preset regeneration start time		Yes			
Heavy duty backwash		No	No	No	Yes
Set a maximum time (in days) between regenerations		Yes (1-7 days)	Yes (1-7 days)	No	Yes (1-7 days)
Turbine count and switch position indication		Yes			
Number of days since the timer was connected to electrical power		Yes			
Number of regenerations since the timer was connected to electrical power		Yes			
Dimensions					
Height x width x depth	(cm)	65 x 30 x 48	106 x 30 x 48	123 x 47 x 47	163 x 79 x 46