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Water Softening Systems

ETYS Series



Water Softening Systems

Water softening systems remove calcium (Ca) and magnesium (Mg) ions, which cause hardness in water. Water softening systems use the ion exchange principle to remove calcium and magnesium ions from water.

ETYS Series Surface Piping Single, Tandem and Triplex Water Softening Systems

ETYS Surface Piping Single, Tandem, and Triplex water softening systems remove calcium and magnesium ions from water using the ion exchange principle. Equipped with PLC automation control systems, this system consists of two or more softening units. The system is controlled by

electric or pneumatic actuated valves and a PLC automation unit. Volumetric control can be performed based on the flow rate. In Surface Piping Tandem and Triplex systems, each softening unit enters the regeneration circuit in turn and, once ready, waits for the other unit in the process to become saturated and transfer the process to itself. This allows for continuous soft water production 24 hours a day, without the need for human intervention and without interruption of the process for regeneration.

ETYS Series Water Softening System Features

FRP TANKLI MODELS

MODEL	TANK DIMENSIONS (mm) (Left x Top)	CONNECTION DIAMETERS (DN) SERVICE - DRAINAGE - SALT SUCTION	DEBİ m ³ / hour	SALT CONSUMPTION (kg)	MINERALS			
					SİNGLE		TANDEM	
					RESİN (lt)	QUARTZ (kg)	RESİN (lt)	QUARTZ (kg)
ETYS 500	775 x 2050	50 - 50 - 25	20	75	500	150	500x2	150x2
ETYS 750	975 x 2150	50 - 50 - 25	27	113	750	250	750x2	250x2
ETYS 900	1075 x 2400	65 - 65 - 25	32	135	900	300	900x2	300x2
ETYS 1200	1225 x 2400	65 - 65 - 40	42	180	1200	500	1200x2	500x2
ETYS 1600	1600 x 2500	80 - 80 - 40	50	270	1800	800	1800x2	800x2

- Cationic resin, maximum working pressure 6 bar
- Electric actuated butterfly valves (Optional pneumatic actuator option)
- Octopus diffuser bottom collection structure
- PVC-U material surface piping (on epoxy painted chassis)
- Sample taps and manometers at system inlets and outlets
- Electronic card or Siemens logo control panel (Optional touch screen option)
- Electric 220V / 50 Hz / 1 pH
- 150 grams of salt consumption is assumed for 1 liter of resin. Resin capacity is assumed to be 6000 liters of Fr resin.
- The customer is responsible for supplying the dry instrument air required for pneumatic valve operation. The recommended compressor capacity is a minimum of 100 L/min and 8 bar.



EPOXY PAINTED CARBON STEEL ST37 TANK MODELS

MODEL	TANK DIMENSIONS (mm) (Left x Top)	CONNECTION DIAMETERS (DN) SERVICE - DRAINAGE - SALT SUCTION	DEBİ m3 / hour	SALT CONSUMPTION (kg)	MINERALS			
					SİNGLE		TANDEM	
					RESIN (lt)	QUARTZ (kg)	RESIN (lt)	QUARTZ (kg)
ETYS 1250	1250 x 2790	80-50-40	50	270	1800	300	1800x2	300x2
ETYS 1600	1600 x 3020	100-80-50	85	420	2800	500	2800x2	500x2
ETYS 2000	2000 x 3250	125-80-50	135	660	4400	600	4400x2	600x2
ETYS 2400	2400 x 3400	150-100-80	180	945	6300	700	6300x2	700x2

- Epoxy painted carbon steel tank (stainless steel tank option)
- Cationic resin, maximum working pressure 6 bar
- Single System is flow controlled (Optional time controlled)
- Electric actuated butterfly valves (Optional pneumatic actuator option)
- PVC-U material surface piping (Optional galvanized surface piping option)
- Sample taps and manometers at system inlets and outlets
- Electronic card or Siemens logo control panel (Optional touch screen option)
- Electric 220V / 50 Hz / 1 pH
- A consumption of 150 grams of salt is assumed for 1 liter of resin. The resin capacity is assumed to be 6000 liters of resin. The customer is responsible for supplying dry instrument air required for pneumatic valve operation. The recommended compressor capacity is a minimum of 100 liters/min @ 8 bar.



** Device images will vary depending on the model.