



VP Series Two Bed Deionizers Model VPT

Flow Rates from 10 - 220 gpm

VP Series Two Bed Deionizers are designed and manufactured for industrial applications. They are rugged, pre-engineered, pre-assembled, standardized units that minimize expensive installation and start-up costs. VP Series two bed deionizers consist of an acid regenerated cation vessel piped in series with a caustic regenerated anion vessel. These pre-engineered units provide high-quality water over the length of the service cycle. Operating conditions and an influent water analysis are required for predicting effluent quality and total volume of water treated before regeneration is required.

- Simple design maximizes reliability, efficiency and repeatability
- 100 psig vessel ratings offer added strength and integrity
- Baked PVC lining and paint extend vessel life
- PLC controls ensure extremely reliable operation
- Inlet flow meter assures consistent performance
- Conductivity monitor assures consistent water quality
- Schedule 80 PVC piping ensures long life and does not degrade water quality

To reduce field fit-up problems with interconnecting piping, the VP Series Two Beds must be ordered with the skid-mounted option.

SYSTEM SPECIFICATIONS

Diameter	016	020	024	030	036	042	048	054	060	066	072
Service Flow Rate (gpm)	10	17	24	38	54	74	97	123	153	182	220
Minimum Flow Rate (gpm)	3	4	6	10	14	19	23	31	39	47	55
Media (cubic feet)											
Cation Resin Volume (ft ³)		4	6	10	15	21	28	36	46	57	69 82
Capacity (Kgr)	80	120	200	300	420	560	720	920	1,140	1,380	1,640
Anion Resin Volume (ft ³)	4.5	7	11	17	24	33	42	54	67	81	96
Capacity (Kgr)	77	120	190	290	410	560	715	920	1,140	1,380	1,640
System Dimensions											
H x L x W inch	96x56x43	97x64x48	99x72x50	108x84x59	114x96x62	118x108x65	120x120x78	125x132x82	127x144x84	132x156x92	136x168x100
. cm	244x142x117	246x162x122	251x183x127	274x213x150	289x244x157	300x274x165	305x305x198	317x335x208	322x366x213	335x396x234	345x427x254
Shipping Weight											
lb (kg)	1800 (817)	2900 (1316)	3800 (1724)	4400 (1996)	6000 (2722)	7860 (3566)	9670 (4387)	11880 (5389)	14880 (6750)	20040 (9090)	25200 (11431)
Electrical Requirements	115 V/60 Hz/single phase/15 amps.										

ORDERING INFORMATION

Catalog Number:	VPT	S	XXX	X	X	P	D
System	VPT		016 - 16"x72"	048 - 48"x72"			
Configuration		S=Simplex*	020 - 20"x72"	054 - 54"x72"			
			024 - 24"x72"	060 - 60"x72"			
			030 - 30"x72"	066 - 66"x72"	A=100 psig		
			036 - 36"x72"	072 - 72"x72"	ASME code	Y=Skid, seismic zone 2A	
Vessel Size			042 - 42"x72"		X=100 psig	Z=Skid, seismic zone 4	
Vessel Rating					non-code		
Vessel Support							
Lining & Paint						P=Solid-State PLC	
Controls							
Control Rating							D=NEMA 4/UL

*Duplex units should be ordered as two (2) simplex units.

To determine your order number, replace the X with one of the numbered options below it.

Feed Water Requirements

Parameter:	
Suspended Solids	5 NTU maximum
Total Dissolved Solids	500 ppm maximum
Alkalinity	≥ 30% of total anions
Chlorides	≤ 30% of total anions
Sodium	≤ 50% of total cations
Silica	≤ 10% of total anions
Iron and Manganese	≤ 0.3 ppm combined
Free Chlorine	≤ 0.2 ppm
Color	≤ 5 APHA units
Organics	≤ 2.0 ppm TOC as O ₂



Technical Support (800) 875-7873 ext. 5000