



Regeneration Skid

STANDARD FEATURES

- Single Skid Configuration
- Hydraulically Operated Manual Diaphragm Pump with Internal Relief Valve
- Block & Bleed Valve on Pump Discharge
- Vortex Flowmeter on Dilution Water Piping
- Concentration Analyzer on Dilute Chemical line
- SS 316L Piping for Caustic Dilute H_2SO_4 & Dilution Water
- CS Sch 80 Piping for Concentrated H_2SO_4
- Sch 80 PVC Piping for HCl
- Mixing TEE of Suitable Material
- NEMA 4X FRP Local Control Box
- PLC Controls in case of stand alone unit

OPTIONS

- Alloy 20 Piping for Conc H_2SO_4
- DI PPL Piping for Conc/Dil HCl
- Regen Dilution Water Pump Skid
- Automatic Stroke Adjustment of Chemical Metering Pump

GENERAL

A regeneration skid is recommended to be used to prepare and regenerate a resin bed for service after exhaustion. These systems can be used with demineralizers, and mixed bed exchangers. Regeneration skids give clients and operators the maximum flexibility and control on the amount of regenerant to be used and dilution water consumed during the regeneration. Aquatech designs its regen skids with a robust concept for durability, reliability and safety. The piping is selected for maximum chemical resistance and the skid framework is coated with a chemical resistant coating that insures durability. The system can be run in a manual, semi-automatic or automatic mode. The pumps are selected with either stroke or speed control for finite adjustments

APPLICATIONS

- Regeneration of Demineralization Vessels
- Regeneration of Mixed Beds

Regeneration Skid Matrix for Acid

Model	Acid	FLOW	Pump Model	Pump Connections Suction/ Discharge	Piping Suction / Discharge	Shipping weight (LBS)	Dimensions (Inches)		
		GPH					H	W	D
AR-HCl-10	HCl	112.10	7120	1.5" / 1.5"	2" / 2"	2200	87	100	72
AR-HCl-20	HCl	218.50	7440	1.5" / 1.5"	3" / 3"	2600	87	131	80
AR-HCl-30	HCl	345.80	7660	2.5" / 2.5"	4" / 4"	3800	87	153	84
AR-HCl-40	HCl	401.90	7660	2.5" / 2.5"	4" / 4"	3800	87	153	84
AR-HCl-50	HCl	20 gpm	MDM-1518-ECF-7.5 (HCL)	1.5" / 1"	2" / 1.5"	5100	66	113	85
AR-HCl-75	HCl	20 gpm	MDM-1518-ECF-7.5 (HCL)	1.5" / 1"	2" / 1.5"	5300	66	113	85
AR-HCl-120	HCl	20 gpm	MDM-1518-ECF-7.5 (HCL)	1.5" / 1"	2" / 1.5"	5400	66	120	85
AR-H2SO4-10	H ₂ SO ₄	29.50	880	.75" / .75"	2" / 2"	1600	87	124	74
AR-H2SO4-20	H ₂ SO ₄	73.90	7120	1.5" / 1.0"	3" / 3"	2100	87	125	78
AR-H2SO4-30	H ₂ SO ₄	112.10	7120	1.5" / 1.5"	3" / 3"	2100	87	125	78
AR-H2SO4-50	H ₂ SO ₄	166.30	7440	1.5" / 1.5"	4" / 4"	2500	87	140	85
AR-H2SO4-60	H ₂ SO ₄	218.50	7440	1.5" / 1.5"	4" / 4"	2500	87	140	85
AR-H2SO4-100	H ₂ SO ₄	345.80	7660	2.5" / 2.5"	6" / 6"	3500	87	160	85
AR-H2SO4-120	H ₂ SO ₄	401.90	7660	2.5" / 2.5"	6" / 6"	3500	87	160	85
AR-H2SO4-150	H ₂ SO ₄	20 gpm	MDM-1518-ECF-10 (H ₂ SO ₄)	1.5" / 1"	2" / 1.5"	5000	72	125	72
AR-H2SO4-250	H ₂ SO ₄	20 gpm	MDM-1518-ECF-10 (H ₂ SO ₄)	1.5" / 1"	2" / 1.5"	5300	72	125	84

Regeneration Skid Matrix for Caustic

Model	Acid	FLOW	Pump Model	Pump Connections Suction/ Discharge	Piping Suction / Discharge	Shipping weight (LBS)	Dimensions (Inches)		
		GPH					H	W	D
CR-W-10	NaOH	77.80	7120	1.5" / 1.0"	2" / 2"				
CR-W-20	NaOH	118.00	7120	2.0" / 2.0"	2" / 2"	1.5"	1"	1"	3"
CR-W-35	NaOH	230.00	7440	2.5" / 2.5"	3" / 3"	1.5"	1"	1"	4"
CR-W-50	NaOH	364.00	7660	2.5" / 2.5"	4" / 4"	2"	1"	1.5"	4"
CR-W-65	NaOH	423.00	7660	2.5" / 2.5"	4" / 4"	2"	1"	1.5"	6"
CR-W-180	NaOH	20 GPM	MDM-1518-ECF-10 (NaOH)	1.5" / 1"	2" / 2"	2"	1"	1.5"	6"

