

Water Technologies

PreVUE® Systems Modular Purified Water Generation

SIEMENS

The PreVUE® system is a modular USP Purified Water system on a single skid for easy installation, startup and validation. It is specifically designed for pharmaceutical cGMP and other high-purity applications that require an easily validated packaged water system. The system can be either chemically or hot water (80°C) sanitized. Each system undergoes a rigorous, fully operational Factory Acceptance Test (FAT) and comes with a comprehensive validation documentation package formatted per GAMP 4 requirements.

The pre-engineered, totally integrated, and automated PreVUE® systems are designed to help you expedite all phases of planning, procuring and commissioning your new water purification system. Drawing submittals and validation protocols are available quickly to expedite construction and planning.

PreVUE® System Benefits:

- Compact single skid design saves installation time and valuable floor space
- Quick delivery keeps project moving fast
- Fully functional FAT and complete validation package reduces commissioning time
- User friendly, panel mounted, color touchscreen HMI makes operation and control a snap
- Flexible configurations in seven different sizes meet your specific production needs- capacities from 2 to 25 gpm (0.45-5.7 m³/hr)

STANDARD PreVUE® SYSTEM FEATURES:

- Stainless steel frame and control panels
- Stainless steel break tank
- SCH 10 and sanitary stainless steel piping
- Push button automatic hot water sanitization
- Modulating flow control valves (feed/ RO reject)



PreVUE® System Model 20

Performance Specifications

Model	20	40	60	80	130	180	250
Maximum Product, gpm(m ³ /hr)	2.3 (0.5)	4.4 (1.0)	6.6 (1.5)	8.8 (2.0)	15.3 (3.5)	19.8 (4.5)	28.8 (6.5)
Nominal Product, gpm(m ³ /hr)	2.0 (.45)	4.0 (0.9)	6.0 (1.4)	8.0 (1.8)	13.0 (2.9)	18.0 (4.1)	25.0 (5.7)
Minimum Product, gpm(m ³ /hr)	1.5 (0.3)	1.7 (0.4)	3.4 (0.8)	5.4 (1.2)	7.7 (1.7)	12.6 (2.9)	17.1 (3.9)
Maximum Feed, (m ³ /hr)	3.3 (0.7)	6.5 (1.5)	9.7 (2.2)	13.1 (3.0)	22.7 (5.1)	29.3 (6.6)	42.7 (9.7)
Maximum Drain, gpm(m ³ /hr)	10 (2.3)	12 (2.7)	15 (3.4)	20 (4.5)	30 (6.8)	40 (9.1)	60 (13.6)
Nominal Recovery %	64	68	68	68	68	68	68
Inlet Pressure	60 to 95 psig regulated + / - 5 psig (414-655 KPA)						
Inlet feed water temperature	45 to 85° F (7.2 to 35° C)						

Note: Flow rates and recoveries are contingent upon feed water quality. Pressure and temperature regulation required by customer. Contact your local sales representative for details.

Physical Specifications

Model	20	40	60	80	130	180	250
Height	78" (198cm)				81" (206 cm)		
Width	120" (305 cm)				121" (307 cm)		
Depth	60" (152 cm)				67" (170 cm)		
Shipping Weight, lb (kg)	3,300 (1497)	3,800 (1724)	4,400 (1996)	4,600 (2087)	6,300 (2858)	7,500 (3042)	8,600 (3901)
Operating Weight, lb (kg)	4,200 (1905)	4,600 (2087)	5,500 (2495)	6,000 (2722)	8,400 (3810)	9,700 (4400)	11,900 (5398)
Feed Water Inlet, Flanged	3/4"	1"	1"	1-1/2"	1-1/2"	2"	2"
Product Outlet, Tri Clamp	1/2"	3/4"	3/4"	3/4"	1"	1"	1-1/2"
Skid Drain, Flanged	2"				3"		
Break Tank Capacity	37 gallons (140 liters)				90 gallons (341 liters)		

Equipment Specifications

Softeners	Fiberglass reinforced composite vessels with brass multiport valves (not hot water sanitizable)
Activated Carbon Filter	Stainless steel vessel, 100 psig (689 kpa) ASME code with removable insulation jacket
Pretreatment Filter	Stainless steel housing with 5.0 micron cartridge filter
Pretreatment UV	Stainless steel chamber with 254 nm lamp
Break Tank	316L Stainless steel with bolted lid
RO Pump	Stainless steel vertical multi-stage centrifugal with VFD
RO Vessels	Fiberglass reinforced composite vessels, 450 psig (3103 kpa) ASME code
RO Membranes	Full fit thin film composite polyamide, hot water sanitizable
CEDI Modules	CDI-LX™, hot water sanitizable
Frame	304 Stainless steel
Controls	PLC in NEMA 4X stainless steel enclosure
HMI	10" (254 mm) color touch screen

Optional Components

Hardness Monitor	Hardness analyzer integrated into control system
pH Adjust	Metering pump, solution tank and pH monitor with automatic rate control by control system
Final UV	Sanitary stainless steel chamber with 254 nm lamp
Final Filter	Sanitary stainless steel housing with 0.1 micron cartridge filter

Optional Configuration

Sulfite Option	Provides an alternate to the activated carbon filter for dechlorination. Option includes metering pump and solution tank with manual rate control, chlorine analyzer for alarm
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PreVUE® System Model 20 (Back View)

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

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