

DILUTION SYSTEMS

WATER QUALITY
MONITORING
SOLUTIONS



FEATURES & BENEFITS

- Extends range for wastewater applications
- Configurable up to 10x dilution factor
- Dilution, cleaning and pumping in one system
- Saves time and lowers maintenance
- Limits fouling and enhances performance
- Recapture feature recycles cleaning fluid
- Long life peristaltic pumps

OVERVIEW

A new level of detection is possible with Real Tech's dilution systems. Designed specifically for harsh wastewater conditions, the system allows for measurement of highly concentrated samples. In addition to dilution, the system also incorporates a chemical cleaning component to minimize the effects of fouling on the measurement cell and a pumping component to continuously supply sample to the system from an open channel with an upgraded booster pump model available. The system saves time and lowers maintenance while improving overall operation and accuracy of the instrument.

MODELS

MODEL #	NAME	DESCRIPTION
S-169092	Dilution System I	For low solids sample stream (<250 mg/L TSS). Dilution system, automatic chemical cleaning, air purge and pump (vertical lift less than 8 ft and pumping distance less than 25ft)
S-179093	Dilution System II	For low/high solids sample stream (>250 mg/L TSS). Dilution system, automatic chemical cleaning, air purge and booster pump (vertical lift exceeds 8ft or pumping distance exceeds 25 ft)
S-179094	Dilution System III	For low/high solids sample stream (>250 mg/L TSS). Dilution system, automatic chemical cleaning and air purge. Client supplies pump or water is pressurized

The Dilutions Systems are designed to provide additional range beyond the stated maximum range of the sensor.



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SPECIFICATIONS

CHARACTERISTIC

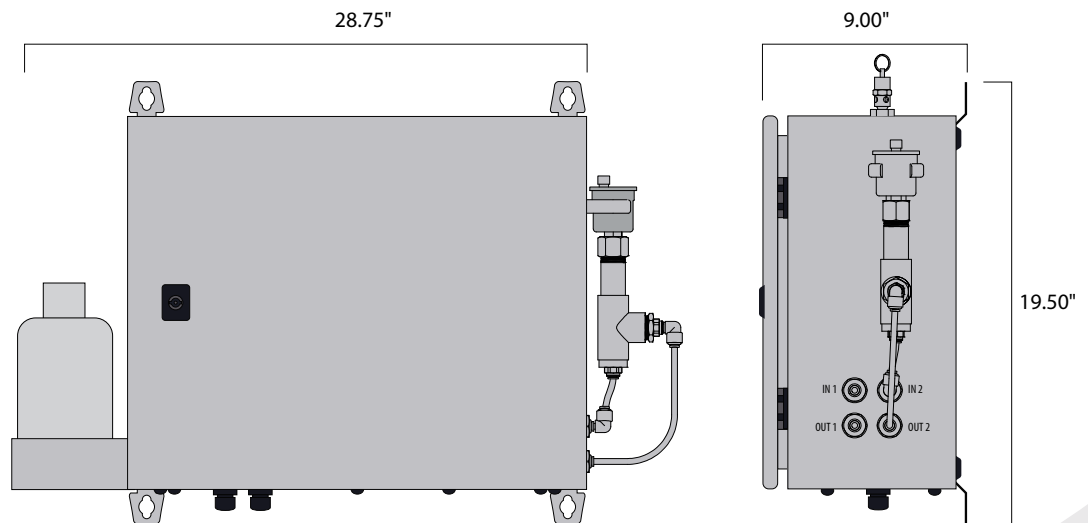
TECHNICAL DATA

MODELS	DILUTION SYSTEM I	DILUTION SYSTEM II	DILUTION SYSTEM III
Dilution Ratio	User Configurable, 1:1 to 10:1 Recommended Range (1 Part Sample : 10 Part Dilution Water)		
Dilution Water	RO Water/Deionized Water or Potable water with use of Filtration System		
Cleaning Frequency	User configurable		
Cleaning Capacity	1L storage container, cleaning fluid recapture feature reduces fluid replenishment frequency		
Air Purge Frequency	User configurable		
Alarms	Leak, Cleaning Fluid Low, Cleaning Fluid Empty, Sample Tube, No Flow, Air Leak		
Dimensions	19.50"H x 28.75"W x 9.00"D		
Enclosure	NEMA 4, wall mountable		
Electrical/Communication	From controller		
Fluid Connections	1/4" tube push-in fittings		
Flow Rate	User configurable		
Max Head Height	8 feet	20 feet	n/a
Max Horizontal Distance	25 feet	50 feet	n/a
Min Process Line Flow Rate	n/a	300 mL/min	300 mL/min
Max Process Line Flow Rate	n/a	2000 mL/min	2000 mL/min
Max Process Line Pressure	n/a	10 PSI	20 PSI
Optional Compressed Air Connection Max Pressure	90 PSI		
Storage Temp.	-20 to 60°C (-4 to 140°F)		
Operating Temp.	0 to 45°C (32 to 113°F)		
Options	Filtration System		
Weight	50 lb		
Warranty	2-year limited warranty		

* Technical Specifications are subject to change without notice.

DIMENSIONS

The Dilution systems are installed directly on a wall, railing or system backboard.



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