Liquid & Slurry

Solid & Powder

Steam & Water

WATERS EQUIPMENT W7950 SPARGER

Single Line Conditioning Modules

SAMPLE CONDITIONING

The Waters Equipment® W7950 sparger assembly is used to prepare a sample for taking a degassed cation conductivity measurement.

After the sample has been cooled and the pressure controlled, it enters the sparger assembly. It passes through a resin column to remove the ammoniated compounds and convert the neutral salts into their corresponding acids, enhancing the conductivity of these impurities.

The sample then passes through a sparging column in a down-flow direction. A regulated flow of technical grade nitrogen or helium gas is introduced into the bottom of the column and is diffused into the sample to create turbulence. As the sparging gas bubbles travel up through the column, they drive the volatile gases out of the sample, and both exit the column through the vent. The sample then is sent to a conductivity cell, where it can be measured free of these impurities.

MODELS

W7950

BENEFITS

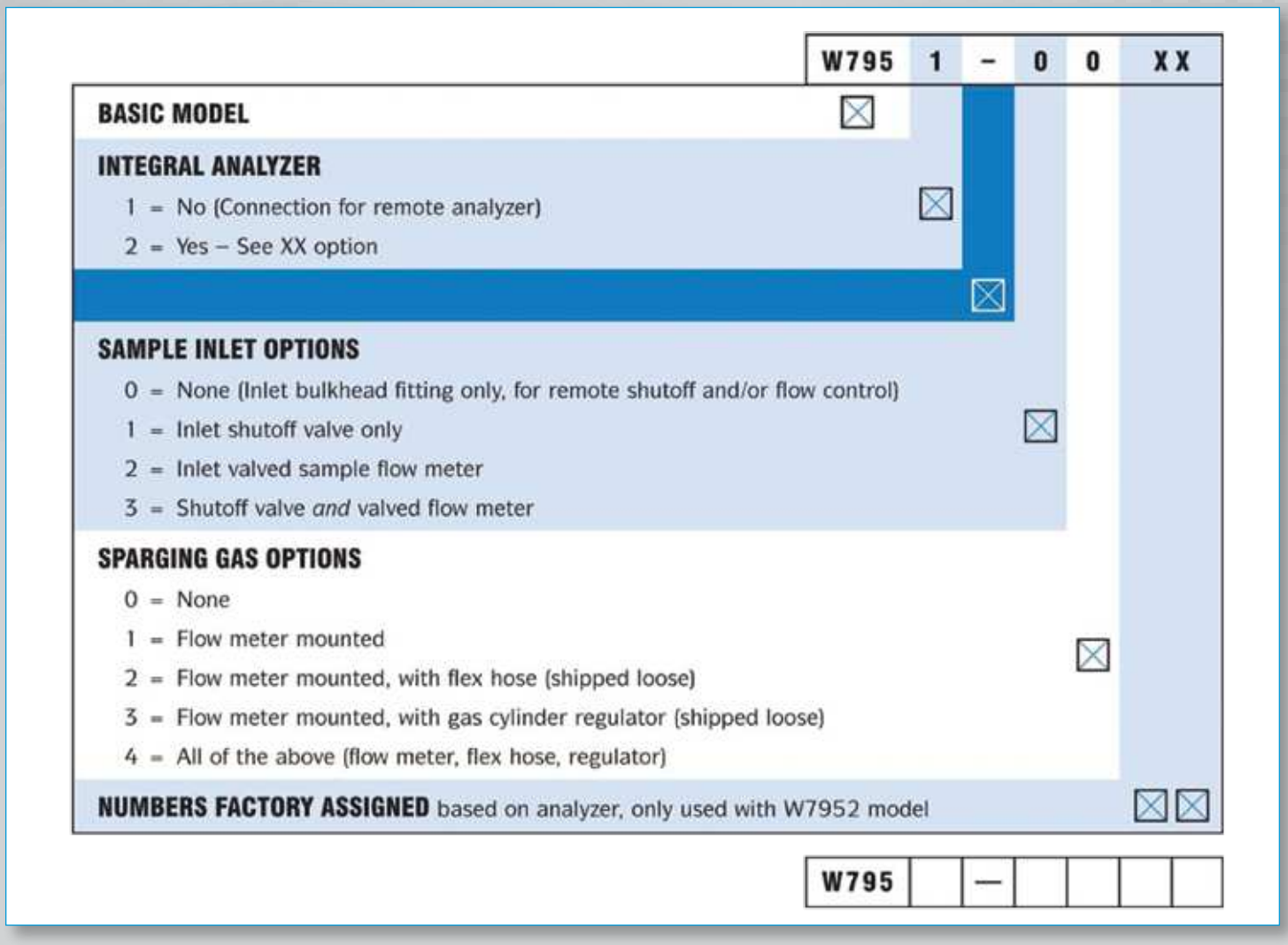
The Waters Equipment W7950 sparger assembly eases sample conditioning so samples can be measured free of impurities. The sparger assembly uses inert gas, and with no reboiler, there is no element to burn out and no hot spots to touch, and the sample never needs re-cooling. Samples pre-cooled to 77°F (25°C) remain at that temperature, ensuring the highest instrument accuracy.

FEATURES

- All sample-wetted parts are either 316SS or plastic
- Selection valve allows sample to be analyzed for either cation conductivity or degassed cation conductivity
- Versatile options include integral high purity conductivity analyzer; gas regulator; flow meter and flex hose; and isolation valve and flow meter

Sample. Monitor. Measure.

SENTRY



SPECIFICATIONS	
dimensions	44 in. x 12 in. x 6 in. (1118 mm. x 305 mm. x 152 mm.)
weight	30 lb. (13.6 kg.)
materials	backplate: 304 stainless steel; tubing, valves: 316 stainless steel; flow meters: 316 stainless steel, acrylic
flow meters	sample: 20–240 ccm; inert gas: 0–1500 ccm
temperature gauge	0 to 200°F (-20 to 94°C)
connections	1/4 in. tube compression
sample conditions	pressure: regulate to 20 psig max (100 psig design) temperature: 125°F (51.7°C) max flow: 100–200 ccm optimal
sparging gas	flow: 400–800 ccm pressure: 20 psig type: nitrogen or helium (technical grade)

sentry-equip.com

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