

# SPARGER ASSEMBLY



**WATERS SPARGER ASSEMBLY** is used to prepare a sample for taking a Degassed Cation Conductivity measurement.

## **HOW IT WORKS**

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 in order 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 is then sent to a conductivity cell, where it can be measured free of these impurities.

## **FEATURES**

- USES INERT GAS:** With no reboiler, there is no element to burn out, no hot spots to touch and the sample never needs re-cooling. Samples pre-cooled to 77°F/25°C remain there, ensuring the highest instrument accuracy.
- HIGH PURITY:** All sample-wetted parts are either 316SS or plastic.
- DISCRETE MEASUREMENTS:** Selection valve allows sample to be analyzed for either cation conductivity or degassed cation conductivity.
- VERSATILE:** Options available are:
  - Integral high purity conductivity analyzer
  - Gas regulator, flow meter and flex hose
  - Isolation valve and flow meter

## HOW TO ORDER

### Model W7950 Sparger Assembly

W795	1	-	0	0	XX
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<b>BASIC MODEL</b>	<input checked="" type="checkbox"/>				
<b>INTEGRAL ANALYZER</b>		<input checked="" type="checkbox"/>			
1 = No (Connection for remote analyzer)					
2 = Yes – See XX option					
<b>SAMPLE INLET OPTIONS</b>			<input checked="" type="checkbox"/>		
0 = None (Inlet bulkhead fitting only, for remote shutoff and/or flow control)					
1 = Inlet shutoff valve only					
2 = Inlet valved sample flow meter					
3 = Shutoff valve <i>and</i> valved flow meter					
<b>SPARGING GAS OPTIONS</b>				<input checked="" type="checkbox"/>	
0 = None					
1 = Flow meter mounted					
2 = Flow meter mounted, with flex hose (shipped loose)					
3 = Flow meter mounted, with gas cylinder regulator (shipped loose)					
4 = All of the above (flow meter, flex hose, regulator)					
<b>NUMBERS FACTORY ASSIGNED</b> based on analyzer, only used with W7952 model					<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Model Number:

W795		-				
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(for W7952 model only)

## SPECIFICATIONS

**Dimensions:** 44"H x 12"W x 6"D

**Weight:** 30 lbs.

**Materials:** Backplate 304; tubing, valves 316; flow meters 316/acrylic

**Flow Meters:** Sample: 20-240 ccm  
Inert Gas: 0-1500 ccm

**Gauge:** Temperature: 0 to 200°F / -20 to 94°C

**Connections:** 1/4" tube compression

### Sample Conditions:

Pressure: Regulate to 20 psig max. (100 psig design)

Temperature: 125°F max.

Flow: 100-200 ccm optimal

### Sparging Gas:

Flow: 400-800 ccm

Pressure: 20 psig

Type: Nitrogen or Helium (technical grade)

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