



Maxtek BSH-150/BSH-151

Bakeable Single Sensor Head/Feedthrough

INSURES EXCELLENT CRYSTAL PERFORMANCE IN HIGH TEMPERATURE ENVIRONMENTS

The BSH-150/151 is a single sensor head designed for processes requiring high temperature bake out. The BSH-150/151 Bakeable Sensor Head/Feedthrough consists of three units: a water-cooled stainless steel housing which is permanently positioned in the vacuum system, the Cool Drawer™ crystal holder, and a 7 cm (2-3/4") ConFlat® flange.

Cool Drawer™ is thermally shielded by the water-cooled housing insuring excellent crystal performance in temperature environments up to 450°C with water-cooling or 400°C without.

The exposed crystal electrode is fully grounded to effectively eliminate problems due to RF interference. The housing is provided with (2) tapped (4-40) holes for convenient mounting.

The BSH-150/151 Bakeable Sensor Head/Feedthrough comes unbrazed, with 34" tubes and a standard BNC connector. At the buyers request and specifications, the 7 cm (2-3/4") ConFlat® feedthrough flange can be brazed to the tubes 4" to 26" from the Sensor Head. The flexible length of the tubes permits the BSH-150/151 Bakeable Sensor Head/Feedthrough to be easily adapted to its operational environment.

FEATURES AT A GLANCE

- Bakeable
- No internal cables
- 7 cm (2-3/4") ConFlat® feedthrough
- Cool Drawer™ crystal holder



Cool Drawer™ crystal holder

SPECIFICATIONS

Materials	304 CRES, Teflon®, Ceramic, Beryllium Nickel
Finish	Stainless steel, gold plated Cool Drawer™
Cooling	Water 0.2 GPM using 1/8" O.D. tube
Temperature	Operational environment to 450°C with water cooling or 400°C without
Electrical Connection	Standard BNC
Crystal	Industry standard 0.550" diameter
Mounting	Mates with 2-3/4" ConFlat® type flanges with 1.375" I.D. min.

ORDERING INFORMATION

Each sensor head includes: (1) BSH-150 or BSH-151, (1) package of 10 each SC-101 crystals

Model #	Part #	Description
BSH-150	123213	Bakeable single sensor head, 7 cm (2-3/4") ConFlat feedthrough. Crystal face is parallel to the water tubes for side or base plate mounting.
BSH-151	123237	Bakeable single sensor head, 7 cm (2-3/4") ConFlat feedthrough. Crystal face is perpendicular to the water tubes for top mounting.
Each sensor head kit includes: (1) BSH-150 or BSH-151, (1) SO-100 oscillator, (1) 6" and (1) 10' BNC cable, and (1) package of 10 each SC-101 crystals		
BSH-150 Kit	123902-SB	Bakeable single sensor head, 7 cm (2-3/4") ConFlat feedthrough. Crystal face is parallel to the water tubes for side or base plate mounting.
BSH-151 Kit	123902-TB	Bakeable single sensor head, 7 cm (2-3/4") ConFlat feedthrough. Crystal face is perpendicular to the water tubes for top mounting.

