



## Clarinet, B-flat

### Date

1929-1942

### Primary Maker

William S. Haynes Company

### Description

3 sections: barrel, one-piece body, bell. Boehm system; 17 keys, 7 rings; sterling silver body, keys, rings and ferrules; double-wall construction; articulated g-sharp; fork e-flat/b-flat. The William S. Haynes Company began the manufacture of a double-wall, sterling-silver clarinet, based on the principal of a thermos flask, in 1926. The fabrication of this instrument continued until 1942, resulting in a total production of only 334 examples. It was the only time in the history of the Haynes Company that an instrument other than the flute was produced. The patent for the thermoclarinet was filed on March 19, 1926, and awarded patent number 1,715,162 on May 28, 1929. The instrument consists of two, hard-drawn, sterling-silver, seamless tubes, one within the other. The bore of the inner tube matches that of a regular wood clarinet. Similarly, the outer tube matches the exterior size of a wood clarinet. Between the two tubes is a one-eighth-inch air space. A small slide, or louver, is placed at the end of the body, just above the bell. This louver can be opened, revealing the inner tube and exposing the air space. When closed, the space between the tubes is air tight. Near the top of the body is a second vent. This consists of an extended tube covered with a metal cap that renders it air tight. When the cap is removed, the outer bore is opened and the inner bore is exposed to the air. The procedure to warm the clarinet is simple. The bottom louver is opened and the top vent cap is removed. The player blows warm

air into the top vent, expelling the cold air through the bottom. After several breaths the clarinet is warm and the vents are closed to seal in the warmth. The barrel of the clarinet also features a double bore. It fits tightly over the top of the body forming a tuning slide.

## **Dimensions**

Overall length (from top of barrel to bottom of bell): 593 mm Barrel: 54.6 mm One-piece body: 429 mm  
Bell: 111.1 mm Bore at top of body: 15.2 mm Bore at bottom of body: 22 mm