



## Flat bottom vacuum box bubble-leak testing

### Bubble leak testing of tank bottom plate welds and shell to bottom plate welds WITH LED LIGHTS


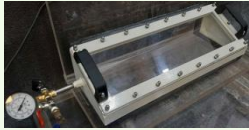





The BHFTECH vacuum box has been designed for the operators according to API 650/653 recommendations. Bubble leak or vacuum box testing is an integral part of tank inspections as required by the American Petroleum Institute (API) and other international standards associations to establish the condition of tank bottom plate welds and shell-to-bottom plate welds

#### Features

Designed to API 650/653 recommendations

750 mm (29.53 in) weld inspection length, improves inspection times and reduces operator fatigue. Integrated LED lights provide the required light intensity as specified by API and ASME inspection standards. Screen glare and shadows from external light sources are eliminated. Calibrated vacuum relief valve ensures the correct vacuum is generated, too high a vacuum can damage the vacuum box and cause injury to the operator Superior build quality with robust body. Two-stage seal design to improve initial vacuum, especially on large lap welds. Electric vacuum pump or compressor driven



	Model No	Runs on Vacuum Pump and Compressor	Dimensions:
Flat Bottom box for testing butt welds on flat surfaces	BHFFB		30.00" L x 8.00" W x 6" H 750 mm x 200 mm x 150 mm
	BHFFB-L With LED Light		40.00" L x 8.00" W x 6" H 1000 mm x 200 mm x 150 mm
Inside Corner Vacuum Box Bubble Leak Testing Corner vacuum boxes are specifically designed for testing the inside corner, where the bottom meets the sidewall at 90 degrees	BHFICV		20" L x 5 1/4" W x 5 1/4" H 500 mm x 125 mm x 125 mm
	BHFICV-L With LED Light		24" L x 5 1/4" W x 5 1/4" H 600 mm x 125 mm x 125 mm
Complete Transparent Flat Bottom box for testing butt welds on flat surfaces	BHFFBC320815		32.00" L x 8.00" W x 1 1/2" H 800 mm x 200 mm x 35 mm
	BHFFBC400815		40.00" L x 8.00" W x 1 1/2" H 1016 mm x 200 mm x 35 mm
Complete Transparent Flat Bottom box for testing butt welds on flat surfaces	BHFFBC331315		33.00" L x 13.00" W x 6" H 830 mm x 320 mm x 150 mm
Complete Transparent Flat Bottom box for testing butt welds on flat surfaces	BHFFBC323215		13.00" L x 13.00" W x 6" H 320 mm x 320 mm x 150 mm
Complete Transparent 3x90 Degree Inner Edge Vacuum Weld Box	BHFFBC390		10.6" L x 10.6" W x 10.6" H 270 mm x 270 mm x 270 mm
Complete Transparent 3x90 Degree Outer Edge Vacuum Weld Box	BHFFBC390-O		10.6" L x 10.6" W x 10.6" H 270 mm x 270 mm x 270 mm



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### **More Efficient: Vacuum Box LEDs**

The optional built-in LEDs provide the recommended light intensity along the weld under test by API 650. The internal LEDs eliminate the view window reflection that occurs when external lights are used to brighten the weld inspection area. You can easily turn the LEDs on and off, eliminating the need for you to move standard halogen floodlights as you move around the tank

### **Safer and Quicker: Vacuum Relief Valve**

Using a calibrated vacuum relief valve ensures the recommended vacuum under international standards. The advantage of such a valve is that once the necessary vacuum is achieved, the relief valve opens and maintains this vacuum, preventing it from damaging the vacuum box or injure the operator.

### **High-pressure and Low-pressure Models**

Vacuum boxes are rated to 20 in of Hg (10 psi/0.7 bar) *recommended for in-services tanks* or 10 in Hg (5 psi/0.4 bar) *recommended for new tanks*. BHFTECH models are rated to 20 in of Hg.

### **Better Accuracy: Calibrated Gauge**

The V750 Vacuum Box comes with an industrial 50.8 mm (2 in) face pressure gauge rated to 762 mm (30 in) of mercury as required by ASME V Article 10–Bubble Test Vacuum Box Technique. The calibrated gauge offers the necessary confidence in your inspections by ensuring the proper recommended vacuum is generated.

### **Electric Pump or Compressor Driven**

The BHFTECH Boxes generates a vacuum using an electric pump or an Air Vacuum Generator (AVG), and an external compressor. Inspection companies tend to use the electric pump because it is more flexible, while construction companies tend to use AVG systems.